

# Inverter Packaged Air Conditioners

## **FD**series

High Performance Air Conditioning

## 2023



FDT 4 way



FDTC 4 way compact





Fine snow panel



Shadow black panel





# Inverter Packaged Air Conditioners

## **FD** High Performance Air Conditioning *series*

The PAC range from Mitsubishi Heavy Industries Thermal Systems is ideal for air conditioning in offices, shops, restaurants, and bars, as well as other commercial environments. The versatility of the PAC range, offers you a wide selection of models in function of your installation needs. The modern and attractive design of our indoor units is harmoniously integrated into any atmosphere creating a pleasant and relaxing environment.



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# Next Generation Refrigerant R32

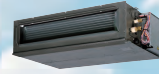
All indoor units and outdoor units line up are available for R32 refrigerant



FDT



FDTC



FDU



FDUM



SRK



FDE

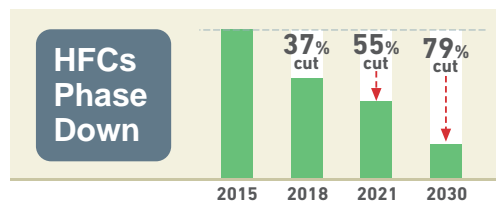


FDF

## F-GAS REGULATION (EU) No 517/2014

Introduced in January 2015 to regulate the use of Fluorinated Greenhouse Gases (F-Gases)

The Hydrofluorocarbons (HFCs) are F-Gases used in the HVACR sector (Heating, Ventilation, Air Conditioning and Refrigeration)



### OBJECTIVE

To protect the environment by reducing the F-Gases emissions

### IMPACT ON HFCs(in EU)

HFCs Phase Down  
HFCs Ban

### SOLUTIONS

- Use lower GWP\* refrigerants in new equipment
- Use high-efficiency equipment with less refrigerant charge
- Check refrigerant leaks regularly

\* GWP is the Global Warming Potential of a refrigerant, representing how much heat an F-Gas traps in the atmosphere

### HFCs Ban

2020

**GWP ≥ 150**  
Portable room air conditioner

**GWP ≥ 2500**  
Stationary refrigeration<sup>\*1</sup> (except < -50°C)

**GWP ≥ 2500**  
Commercial hermetically sealed refrigerators, freezers

2022

**GWP ≥ 150**  
Commercial multipack centralised refrigeration

**GWP ≥ 150**  
Commercial hermetically sealed refrigerators, freezers

2025

**GWP ≥ 750**  
Single Split Fixed Air Conditioning < 3kg HFC

<sup>\*1</sup> Stationary refrigeration equipment, that contains or relies its functions upon, HFCs with GWP of 2500 or more except equipment intended for application designed to cool products to temperatures below -50°C application



LOWER GWP + LESS REFRIGERANT CHARGE = LOWER HFCs EMISSIONS



# R32 - A Low GWP Refrigerant

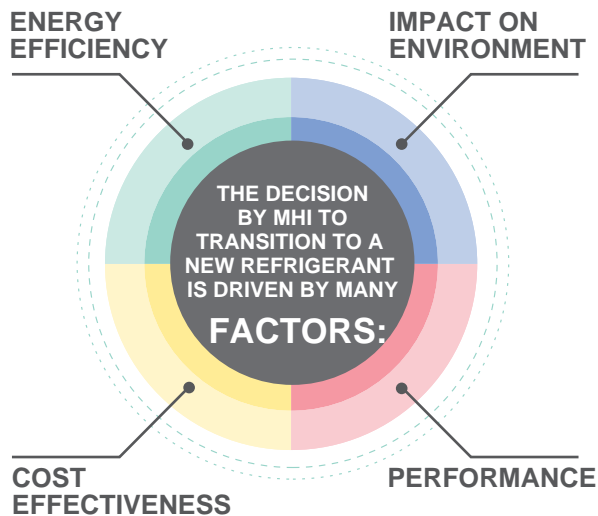
- A single component, easy to handle refrigerant
- Known as a component of the blend R410A(50% R32, 50% R125)
- Already used in Air Conditioning systems worldwide
- Zero Ozone Depletion
- Superior Energy Efficiency vs. R410A
- Reduced refrigerant charge vs. R410A
- Easy to recycle



**Hyper Inverter**

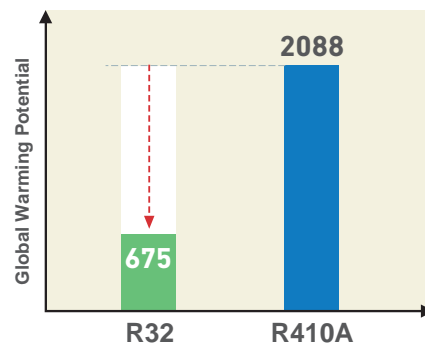
**Micro Inverter**

**Standard Inverter**



## Low Global Warming Potential

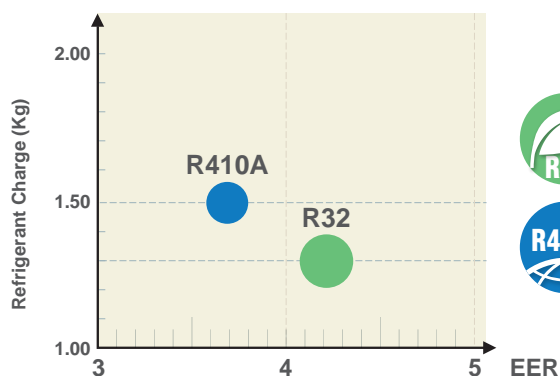
1/3 GWP VS. R410A



GWP Values based on IPCC 4th Assessment Report



## Improved Energy Efficiency

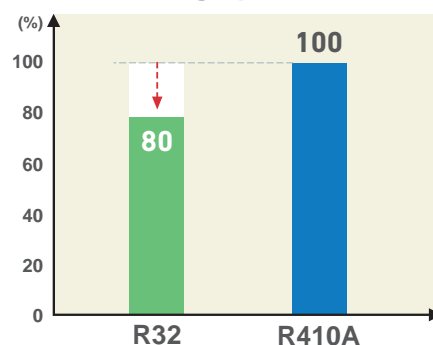


Energy Efficiency Ratio Based on 6.0 kW Ceiling cassette 4way unit



## Reduced Refrigerant Charge

Saving up to 20%



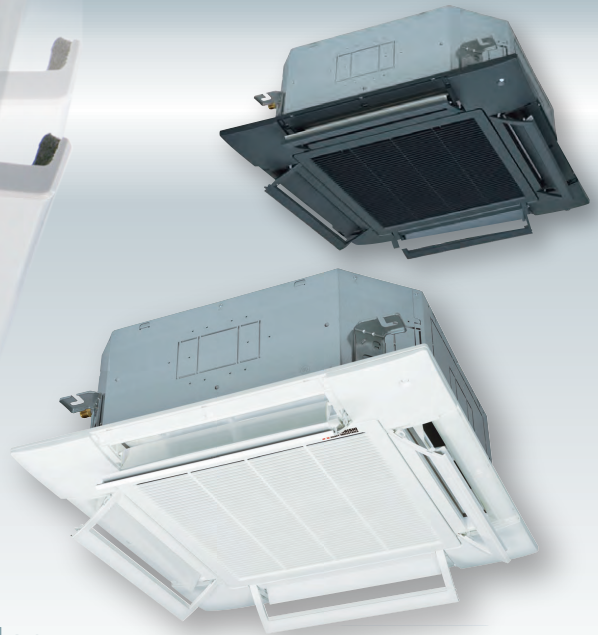
# New Generation

Ceiling Cassette  
4way

# FDT



- Automatic energy saving control
- Keep maximum comfort with minimal draft
- Quiet operation

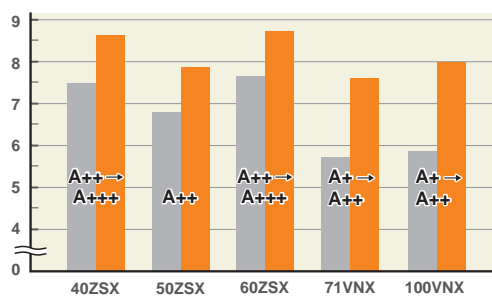


## High energy efficiency with new technology

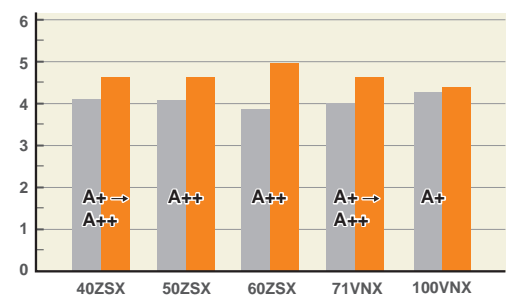
FDT can achieve higher seasonal efficiency by utilising Mitsubishi Heavy Industries latest technology.

● SEER and SCOP is defined in European regulations. Please refer to P112.

**SEER in cooling** ■ Previous(VG(R410A)) ■ New(VH(R32))



**SCOP in heating** ■ Previous(VG(R410A)) ■ New(VH(R32))



## Quieter noise & Improved aerodynamic performance of the unit

New technology achieved low noise while keeping capacity and comfort by reducing the pressure fluctuation in an indoor unit. A fan guard ensures both safety and quietness.

Turbo fan



Fan guard  
(standard equipment)



New

## Various panels available

You can choose white and black panel according to the atmosphere and purpose of the room.



White panel  
(Fine snow)



Black panel  
(Shadow black)

## New flexible flap control for draft prevention



### Draft Prevention Panel (Option)

Each of the 4 flaps can be controlled individually at each operation mode. They change air flow direction and prevent drafts occurring. This function also provides flexible control of air flow direction.



### Motion Sensor (Option)

Motion sensor (option) detects human activity. Energy saving control is achieved by shifting set temperature according to detected amount of activity.



Ceiling Cassette  
4way compact

# FDTC



- More comfort and Higher energy savings
- European design
- Lower noise



A' Design Award and Competition is the World's largest, most prestigious and influential design accolade, the highest achievement in design. A' Design Award Winner Logo, symbolizes exceptional design excellence in products, projects and services.

## European Design & Flat Panel

### Thin Panel

FDTC thin panel fit within 10mm from the ceiling.

### Unique Grille Design

Honeycomb grille

### Big Louver

Improved distribution



New

## Various panels available

You can choose the grill design according to the atmosphere and purpose of the room.



Grid type

Integrated Ceiling System Design(600×600)

## Draft Prevention Panel and Motion Sensor (option)

Draft prevention panel and motion sensor are available on FDTC, just like on FDT.

Floor  
standing

New

# FDF

- New floor standing unit compatible with R32
- Increased Energy efficiency
- R32 leak detector built-in



## Improved features

Heat exchanger design optimized for R32 operation. The leak detector device will be integrated at the bottom of the unit. Remote control RC-EX3 upgraded for leak detector functions.

Leak detector



Inside



# Draft Prevention

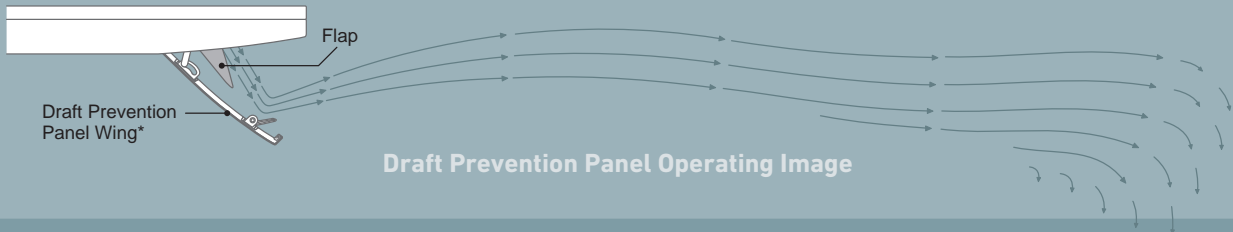
Keep maximum comfort  
with minimal draft:  
FDT & FDTC control flaps  
with more flexibility.



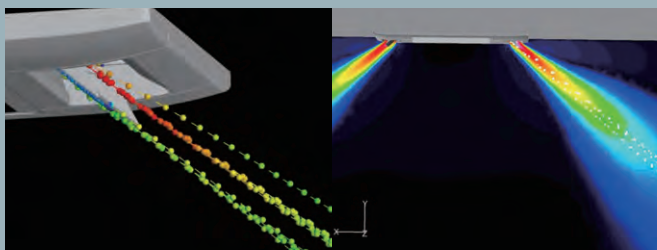
Ceiling cassette Compact  
**FDTC-VH** series



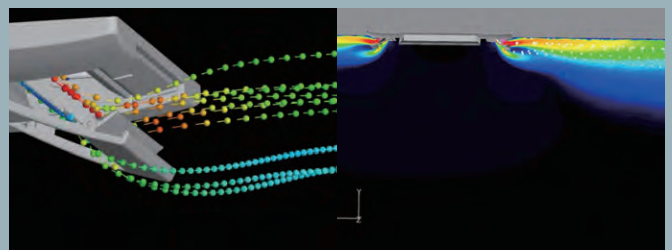
Ceiling cassette  
**FDT-VH** series



**Draft Prevention Panel off**



**Draft Prevention Panel working \***



Draft Prevention Panel provides a comfortable airflow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.

\* Images is for illustration purposes.



# Motion Sensor

Product Information

## Energy saving operation by detecting human movement

### 3 Step Control

- 1 Power Control** Motion sensor (option) detects human activity. Energy saving control is achieved by shifting set temperature according to detected amount of activity.
- 2 Stand by** Unit will go on stand-by mode when no activity is detected. When the motion sensor detects activity again, the unit will automatically re-start operation.
- 3 Auto Off** Unit will go off automatically when no activity is detected for 12 hours.

Optional for models



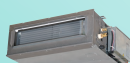
FDT



FDTC



FDU



FDUM



FDE



FDF

Low human activity (in cooling)



High human activity (in cooling)



Absence for 1 hour



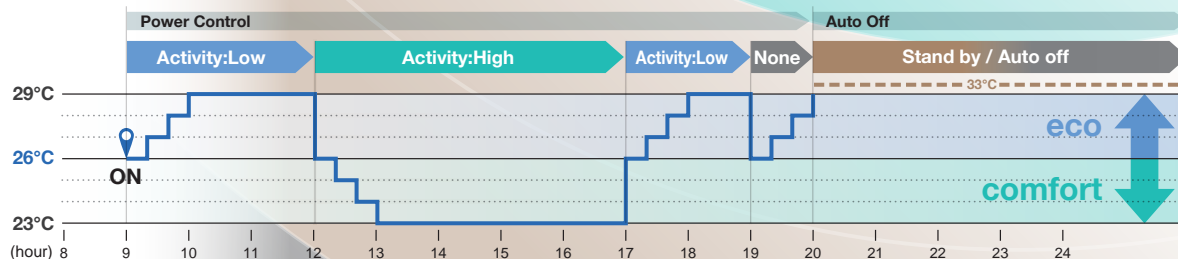
12 hours absence



in cooling

Set temperature

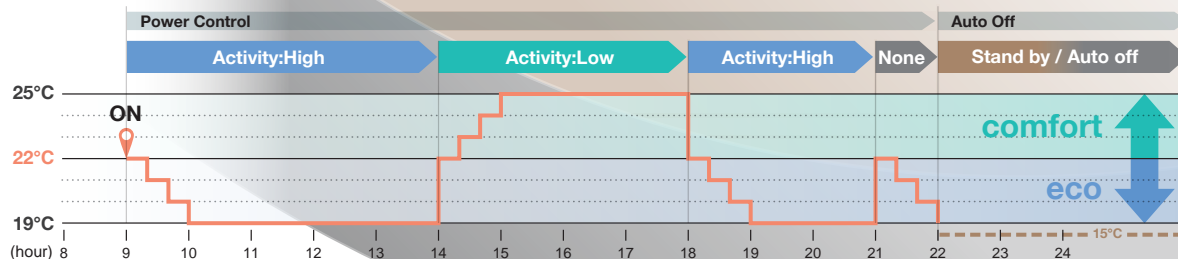
26°C



in heating

Set temperature


22°C



### Operation mode and Control of Motion sensor

eco operation  
comfort operation

Operation mode

| Power Control *1 | <div>Human activity</div> <div></div> | Low  | Cooling +3°C | +3°C | +3°C | — | — |
|------------------|--|------|--------------|------|------|---|---|
|                  |  |      | Heating +3°C | +3°C | +3°C | — | — |
|                  |  | High | Cooling -3°C | -3°C | -3°C | — | — |
|                  |  |      | Heating -3°C | -3°C | -3°C | — | — |
|                  |  | None | Cooling +3°C | +3°C | -3°C | — | — |
|                  |  |      | Heating -3°C | +3°C | -3°C | — | — |
| Auto Off *2      |  |      | ●            | ●    | ●    | ● | ● |

\*1 Set temperature is revised maximum  $\pm 3^{\circ}\text{C}$  at Cooling/Heating mode by detecting heat volume movement.

\*2 Absence for 1 hour  $\Rightarrow$  Operation stops ("Stand-by") 12 hours absence Operation stops completely

# Remote Control

Simple use with  
advanced settings  
**REMOTE CONTROL**

Intuitive touch controller with  
Liquid Crystal Display

## RC-EX3A

### Function Switch

The function switch allows the user to select preferred two functions that are desired from the seven available functions shown.

These functions can be used by simply pressing the button after they are set, allowing you to use your preferable functions immediately.

#### 1. Draft prevention ON/OFF



Anti draft can be turned ON/OFF with a single tap of the button.

#### 2. High Power Mode



High Power Mode achieve excessive cooling / heating capacity in 15 minutes to quickly adjust the room temperature to a comfortable level.

#### 5. Home Leave Mode



Home leave mode maintains the room temperature at a moderate level.

#### 3. Energy Saving Mode



Temperature is set to be optimized to save energy without losing comfort.

#### 6. Favourite Mode



Operation mode, set temperature, fan speed and air flow direction will automatically be adjusted to the programmed favorite setting.

#### 4. Quiet Mode



Outdoor unit starts to operate quietly by activating this mode. The time of this mode can be set in conjunction with Indoor Silent Timer.

#### 7. Filter Sign



Announces the due time for cleaning the air filter.

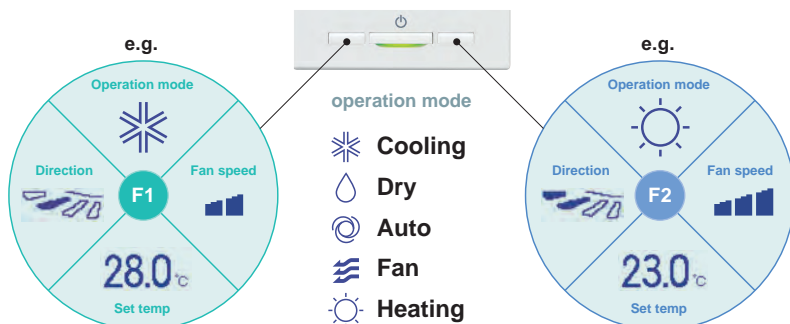


Function switch  
(F1)

Function switch  
(F2)

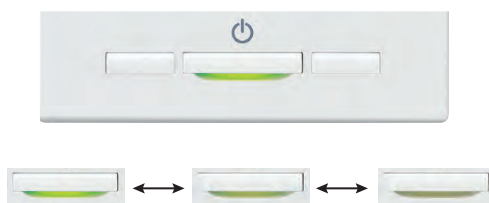
### Favourite Mode

Operation mode, set temperature, fan speed and air flow direction are memorized and allocated to two buttons that can be operated by one touch.



### Adjustable Brightness of the Operation Lamp

The brightness of the operation lamp behind Run/Stop switch can be adjusted by 10 stages.

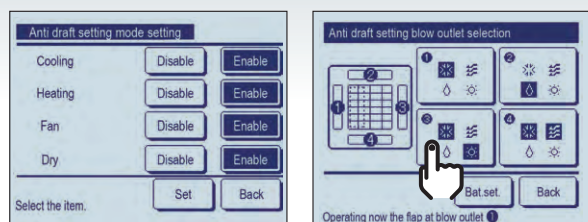




## Draft Prevention Setting

(only FDT•FDTC series)

User can enable/disable the motion of Draft prevention panel for each air outlet for each operation mode. This function can be set while operating.



## Easy Adjustment of the Air Flow

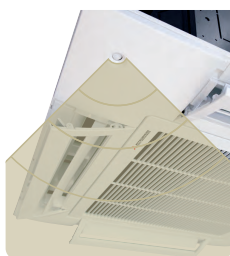
User can visually confirm and set the direction of flaps using the visual display on the remote controller.



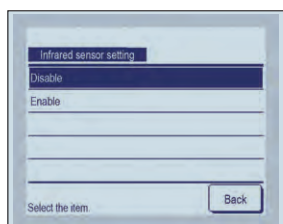
## Motion Sensor Control

Presence of humans and activity are detected by a motion sensor to perform various controls.

### 1 Select Enable / Disable Motion sensor control



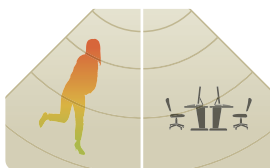
Enable/Disable



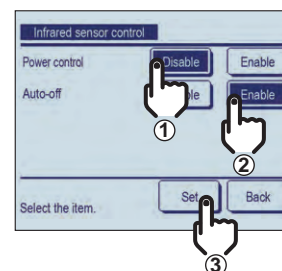
Select Enable/Disable for the motion sensor of the indoor unit connected to the R/C.

### 2 Select Enable / Disable per control

- Power control
- Auto-off



Enable/Disable

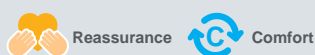


## Backup Control

Control restricted to two indoor units (two groups)

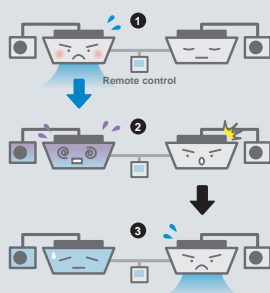


### Fault backup control



#### Keep back up all the time!

If one of the two indoor units malfunctions and stops its operation, the other starts backup operation so that users' comfort will not be compromised.

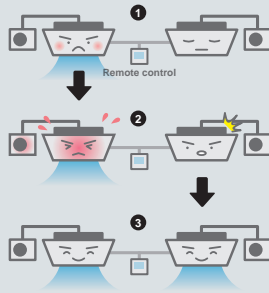


### Capacity backup control



#### Maintains users' comfort!

When the control system detects either of its two units operating with overload, the other unit cover the capacity.

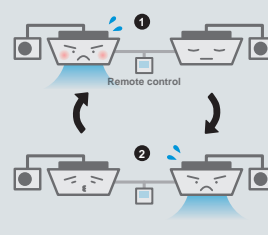


### Rotational operation control



#### Energy saving and longer life!

By operating two indoor units alternately, their chronological changes are equalized. (The alternate operation cycle can be specified in a range from 1 to 999 hours in increments of 1 hours.)



## REMOTE CONTROL

### Additional Functions of External Input / Output

The external input/output of indoor unit by remote controller can set input/output based on user's demand.



Remote surveillance system



Card key on-off

#### External Input

CNT (1-6) CNTA (1-2)

Input On/Off  
Permission/Prohibition  
Cooling/Heating  
Emergency Stop

Set temp. shift  
Forced thermo-off  
IU operation stop  
Silent mode

Newly added

#### External Output

CNT (New)

2 Output - Operation  
- Heating  
- Compressor ON (thermo-ON)

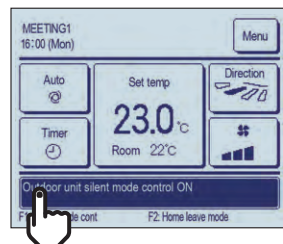
3 Output - Inspection

Cooling (defrosting)  
Fan operation  
Fan operation with Phi or Hi  
Fan operation with Me or Lo  
Defrosting (oil return in heating operation)  
Ventilation  
Heater ON  
Free cooling  
IU overload alarm

Newly added

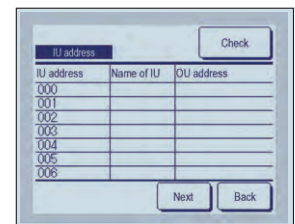
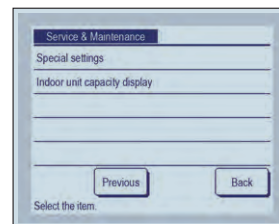
### Silent Mode Control

The Outdoor unit is controlled prioritising quiet operation. Silent mode control must be set to the F1 or F2 switch. User can start/stop the silent mode control with a single tap of a button.



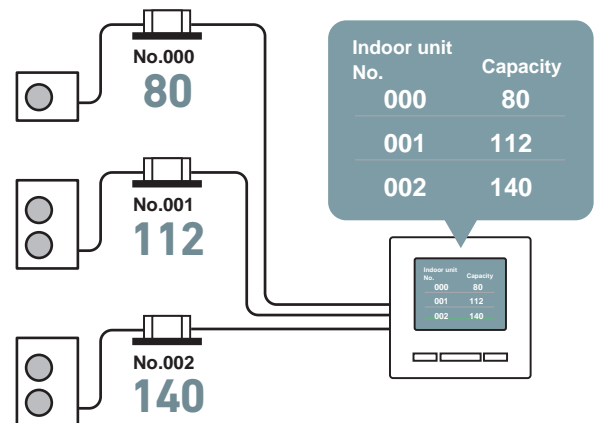
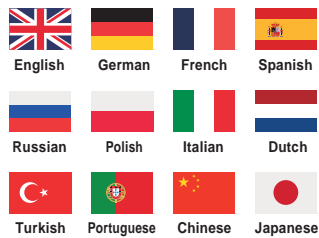
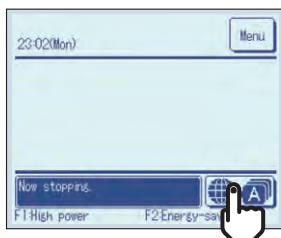
### Indoor Unit Capacity Display

Capacities of Indoor units connected to the RC-EX3A are displayed.



### Language Switching

User can select from the following languages and also switch them on the top display.

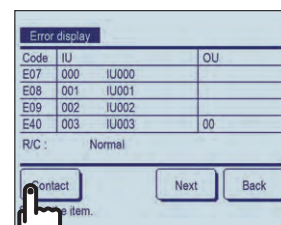
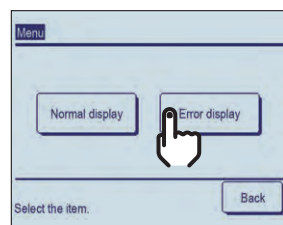
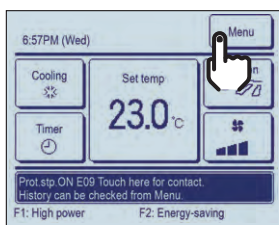


### Error display

If any error occurs on the air conditioner, the "Unit protection stop" is indicated on the message display.



"Error"





# Case Study : Commercial

Specific cases of FD series installation from  
Mitsubishi Heavy Industries Thermal Systems

## MHI aircon system recovers waste energy at Bristol Airport

A 375kW air conditioning installation from Mitsubishi Heavy Industries Thermal Systems has just checked in at Bristol Airport. Twenty multi-split systems from MHI's FD Micro Inverter range and 33 SAF fresh air heat exchange units service a hub of pre-boarding and arrivals areas plus a new two-storey walkway connection to the terminal building. MHI's FD Split and Multi Split Systems feature a cutting edge inverter controlled compressor that adjusts automatically to meet the precise demands of the indoor unit to save energy and reduce temperature fluctuations.






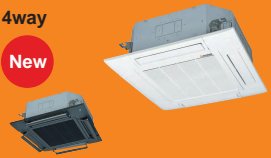








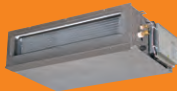











## MHI aircon system offers bowling centres energy savings of up to 38%

High efficiency climate control from Mitsubishi Heavy Industries Thermal Systems has scored a strike at The Original Bowling Company, the UK's number one ten pin bowling operator. Outdated heating and cooling plant has been replaced with Mitsubishi Heavy Industries Thermal Systems heat pump systems at four Hollywood Bowl and AMF Bowling Centres so far, with further sites to follow in an ongoing refurbishment programme. The new systems employ MHI's inverter technology offering variable capacity control for consistent temperatures and energy savings of up to 38%.



# Product line up

## SINGLE SPLITS

| <div>  <b>FD series</b><br/>Type         </div> |  |   |         | <div>   </div> |        |        |        |        |        |
|--|--|---|---------|---|--------|--------|--------|--------|--------|
|  |  |   |         | HP  | 1.5    | 2.0    | 2.5    | 3.0    | 4.0    |
|  |  |   |         | kW  | 4.0    | 5.0    | 6.0    | 7.1    | 10.0   |
|  |  |   |         | Btu/h   | 13,600 | 17,100 | 20,500 | 24,200 | 34,100 |
|  |  |   |         | kcal/h  | 3,440  | 4,300  | 5,160  | 6,100  | 8,600  |
| Ceiling<br>Cassette  | <b>FDT</b> P24<br>4way<br>New<br>                   |    | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
|  |  |    | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
|  | <b>FDTc</b> P42<br>4way compact<br>New<br>          |    | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
|  |  |    | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
| Duct<br>Connected  | <b>FDU</b> P50<br>High Static pressure<br>New<br> |  | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
|  |  |  | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
|  | <b>FDUM</b> P60<br>Low/Middle Static pressure<br> |  | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
|  |  |  | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
| Wall<br>Mounted  | <b>SRK</b> P74<br>New<br>                         |  | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
|  |  |  | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
| Ceiling<br>Suspended   | <b>FDE</b> P82<br>                                |  | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
|  |  |  | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
| Floor<br>Standing  | <b>FDF</b> P96<br>New<br>                         |  | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |
|  |  |  | 1 Phase |   |        |        |        |        |        |
|  |  |   | 3 Phase |   |        |        |        |        |        |





Combat Global Warming  
Please refer to Page 4

Product line up

Capacity Range (Nominal Cooling Capacity)



New

Micro Inverter



New

Standard Inverter



|  | 5.0    | 6.0    | 4.0    | 5.0    | 6.0    | 8.0    | 10.0   | 12.0   | 3.0    | 3.5    | 4.0    | 5.0    |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|  | 12.5   | 14.0   | 10.0   | 12.5   | 13.6   | 20.0   | 25.0   | 27.0   | 7.1    | 9.0    | 10.0   | 12.1   |
|  | 42,700 | 47,800 | 34,100 | 42,700 | 46,400 | 68,200 | 85,300 | 92,100 | 24,200 | 30,700 | 34,100 | 41,300 |
|  | 10,750 | 12,040 | 8,600  | 10,750 | 11,690 | 17,200 | 21,500 | 23,200 | 6,100  | 7,740  | 8,600  | 10,404 |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        | ●      | ●      | ●      | ●      |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        |        |        |        |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        | ●      | ●      | ●      |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        |        |        |        |        |
|  |        |        |        |        |        |        |        |        |        |        |        |        |
|  |        |        |        |        |        |        |        |        |        |        |        |        |
|  |        |        |        |        |        |        |        |        |        |        |        |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        | ●      | ●      | ●      | ●      |
|  | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●      |        |        |        |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        | ●      | ●      | ●      |        |
|  | ●      | ●      | ●      | ●      | ●      | ●      | ●      |        |        |        |        |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        | ●      | ●      | ●      | ●      |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        |        |        |        |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        | ●      | ●      | ●      |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        |        |        |        |        |
|  |        |        | ●      |        |        |        |        |        | ●      |        | ●      |        |
|  |        |        | ●      |        |        |        |        |        |        |        |        |        |
|  |        |        | ●      |        |        |        |        |        |        |        | ●      |        |
|  |        |        | ●      |        |        |        |        |        |        |        |        |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        | ●      | ●      | ●      | ●      |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        |        |        |        |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        | ●      | ●      | ●      |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        |        |        |        |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        | ●      | ●      | ●      |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        |        |        |        |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        |        |        |        |        |
|  | ●      | ●      | ●      | ●      | ●      |        |        |        |        |        |        |        |

# Outdoor units

Our new advanced technology has high efficiency, strong heating and long piping. This contributes to the environmental protection through energy saving and permits installation of the units (4~6HP) considering a heating operation under temperature conditions down to -20°C. The Standard Inverter series offer optimised efficiency at a reasonable cost.

## Line up

| HP                | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 8 | 10 | 12 |
|-------------------|-----|---|-----|---|-----|---|---|---|---|----|----|
| Hyper Inverter    | ●   | ● | ●   | ● | —   | ● | ● | ● | — | —  | —  |
| Micro Inverter    | —   | — | —   | — | —   | ● | ● | ● | ● | ●  | ●  |
| Standard Inverter | —   | — | —   | ● | ●   | ● | ● | — | — | —  | —  |

## Hyper Inverter



SRC40ZSX-W1 (1.5HP)  
SRC50ZSX-W2 (2.0HP)  
SRC60ZSX-W1 (2.5HP)



FDC71VNX-W (3.0HP)



FDC100VNX/VSX-W (4.0HP)  
FDC125VNX/VSX-W (5.0HP)  
FDC140VNX/VSX-W (6.0HP)



SRC40ZSX-S (1.5HP)  
SRC50ZSX-S (2.0HP)  
SRC60ZSX-S (2.5HP)



FDC71VNX (3.0HP)



FDC100VNX/VSX (4.0HP)  
FDC125VNX/VSX (5.0HP)  
FDC140VNX/VSX (6.0HP)

## Micro Inverter



FDC100VNA-W/VSA-W (4.0HP)  
FDC125VNA-W/VSA-W (5.0HP)  
FDC140VNA-W/VSA-W (6.0HP)

New



FDC200VSA-W (8.0HP)  
FDC250VSA-W (10.0HP)  
FDC280VSA-W (12.0HP)



FDC100VNA/VSA (4.0HP)  
FDC125VNA/VSA (5.0HP)  
FDC140VNA/VSA (6.0HP)



FDC200VSA (8.0HP)



FDC250VSA (10.0HP)

## Standard Inverter



FDC71VNP-W (3.0HP)



FDC90VNP-W (3.5HP)  
FDC100VNP-W (4.0HP)

New



FDC125VNP-W (5.0HP)



FDC71VNP (3.0HP)



FDC90VNP1 (3.5HP)



FDC100VNP (4.0HP)

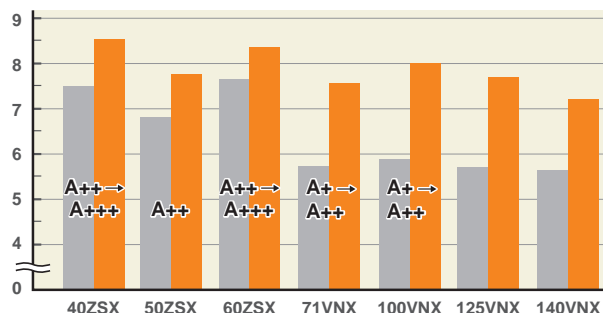


## High Efficiency

Outdoor units high efficiency levels are achieved thanks to our latest technologies, such as high efficient twin rotary compressors.

### SEER in cooling

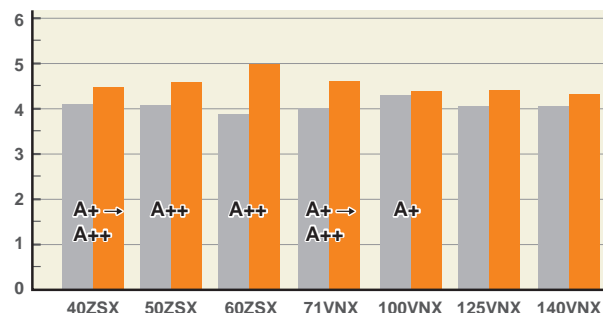
■ Previous(VG(R410A)) ■ New(VH(R32))



- In case of ceiling cassette 4way unit.

### SCOP in heating

■ Previous(VG(R410A)) ■ New(VH(R32))



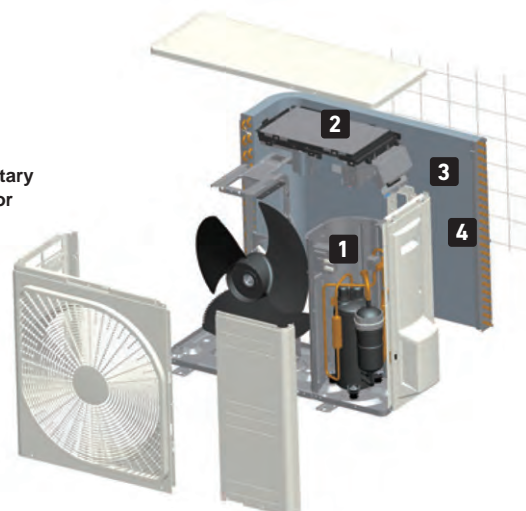
## Our Latest Technologies

### 1 High efficiency performance on the DC twin rotary compressors

Adoption of DC twin rotary compressor has enabled to utilize a high-speed range of up to 120 rps at the maximum to secure the required capacity.



DC twin rotary compressor



### 2 Vector inverter control

Optimum compressor control has been realized by employing the vector control\* and the starting current has been improved significantly compared with former models. Moreover, vibration has been reduced.

\* Vector control means a technique to realize an optimum control by converting the current wave to a smooth sinusoidal waveform

Better partial load efficiency



Distributed winding motor

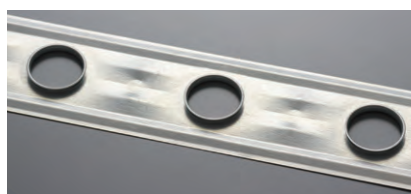


Centralized winding motor

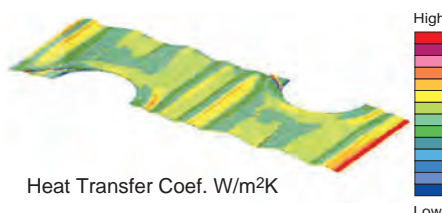
\* only R32 models

### 3 Heat exchanger

Thanks to changing fin configuration from flat sheet to M shape fin. This high dimensional structure provides optimum balance of heat transfer and airflow.

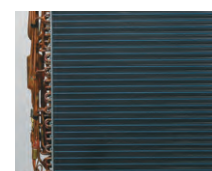


sectional structure



### 4 Blue fin

Due to application of blue coated fins (KS101) on the heat exchanger of the new outdoor unit, corrosion resistance has been improved compared to previous models.



|                   |         |
|-------------------|---------|
| Hyper Inverter    | 3~6HP   |
| Micro Inverter    | 4~12HP  |
| Standard Inverter | 3.5~5HP |

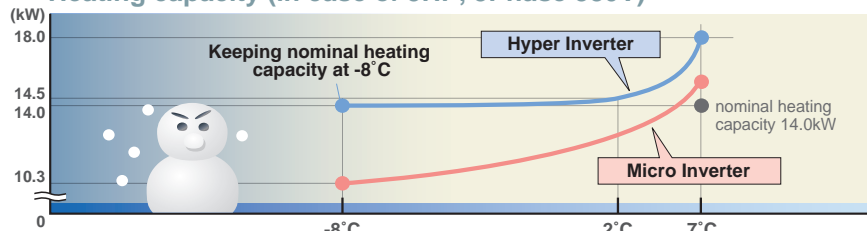
# Outdoor units

## Leading Powerful Heating Capacity

The maximum heating capacity can be increased by:

- optimizing the refrigerant control and use of the electric expansion valve
- Utilization of the twin rotary compressors
- Nominal heating capacity can be reached when outdoor temperature is -8°C
- Also effective to be used in cold areas

Heating capacity (in case of 5HP, 3Phase 380V)



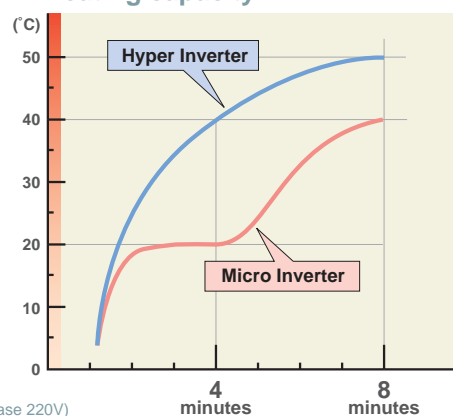
| model name                  | nominal heating capacity (kW at outdoor temperature of 7°C) | heating capacity at outdoor temperature of -8°C |
|-----------------------------|---|---|
| FDC100VSX(4HP, 3Phase 380V) | 11.2kW  | 11.2kW  |
| FDC125VSX(5HP, 3Phase 380V) | 14.0kW  | 14.0kW  |
| FDC140VSX(6HP, 3Phase 380V) | 16.0kW  | 16.0kW  |

Please refer to our technical manual for installation conditions, operation range and heating/cooling capacities. (including 1Phase 220V)

### Hyper Inverter

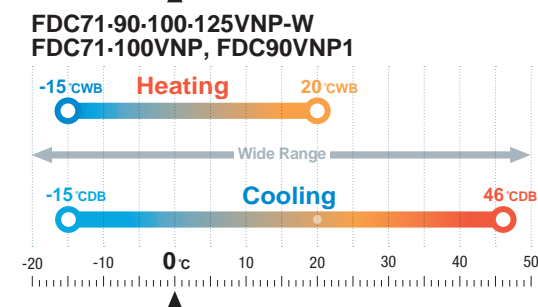
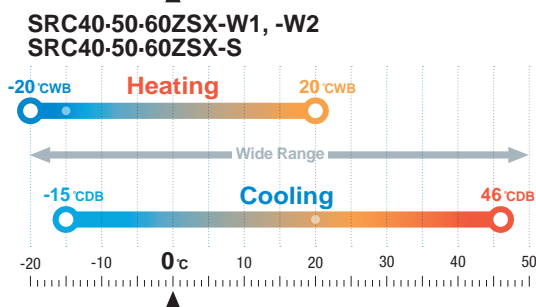
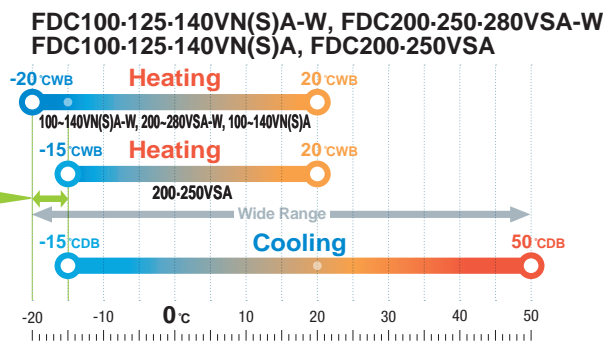
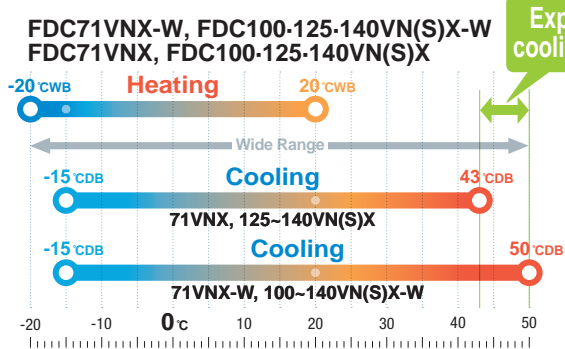
Temperature of supply air can reach 40°C in 4 minutes after start up under low temperature operation conditions (at both indoor and outdoor temperature of 2°C) and can reach 50°C in 8 minutes after that.

Heating capacity



## Wide Range of Operation

Our new advanced technology has expanded the heating and cooling operation range. This permits installation of the units under a low outdoor temperature conditions down to -15°C/-20°C in heating operation and -15°C in cooling operation.

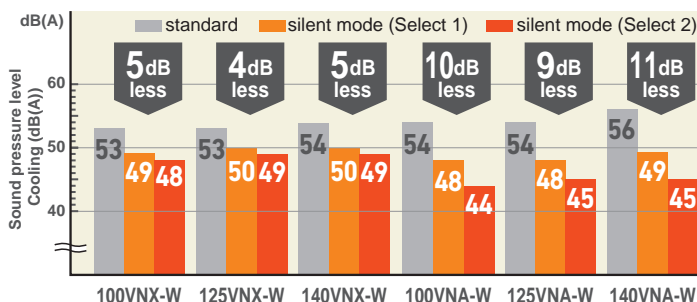
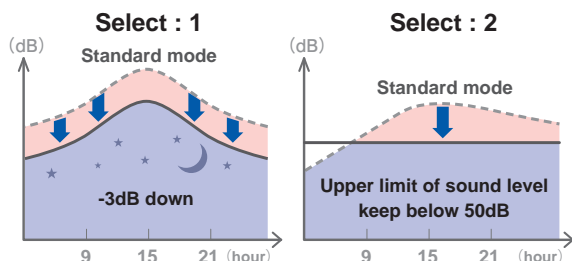


## Silent Mode Operation

Hyper / Micro Inverter

Improved "silent mode" is possible, in two steps.

※ Applied on 4-6HP, 8-12HP(R32)





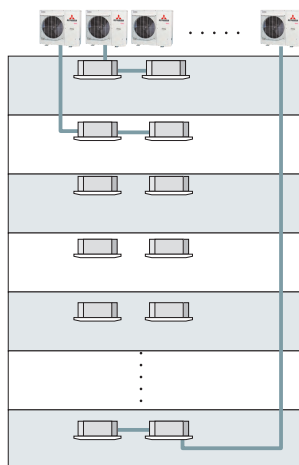
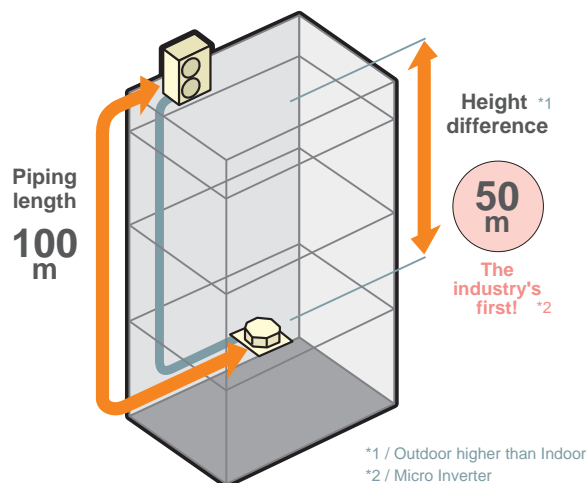
## Installation Workability

Enhanced installation workability thanks to the extended pipe length – longest level in the industry and precharged refrigerant.

### Long piping

(in case of Hyper 4~6HP)

### Wider variation of installation!



### Refrigerant precharged piping length extending to 30m

Refrigerant precharged piping length extends up to 30m. This eliminates the need to add refrigerant on site, which sets it free from trouble of excessive or insufficient charging of refrigerant, and allows carrying out the installation smoothly. ● Hyper inverter 1.5~2.5HP and Standard Inverter are up to 15m.

### Hyper Inverter

| HP         | Piping length | Height difference |
|------------|---------------|-------------------|
| 1.5 ~ 2.5  | 30m           | 20m               |
| 3          | 50m           | 30m               |
| 4~6(R32)   | 100m          | 50m               |
| 4~6(R410A) | 100m          | 30m               |

### Micro Inverter

| HP          | Piping length | Height difference |
|-------------|---------------|-------------------|
| 4 ~ 6       | 50m           | 50m <sup>*3</sup> |
| 8~10(R32)   | 70m           | 50m <sup>*4</sup> |
| 8~10(R410A) | 70m           | 30m               |
| 12          | 60m           | 50m <sup>*4</sup> |

<sup>\*3</sup> When the outdoor unit is installed at a position higher than the indoor unit by 30m or more, set SW5-2 on the control PCB to ON.

<sup>\*4</sup> In case of following conditions: Max. 50m (Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max. 30m (Outdoor unit is higher & Outdoor temperature > 43°C)

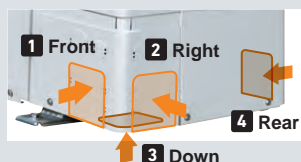
### Standard Inverter

| HP    | Piping length | Height difference |
|-------|---------------|-------------------|
| 3 ~ 5 | 30m           | 20m               |

## Serviceability

Micro Inverter (8(R32)-10-12HP)

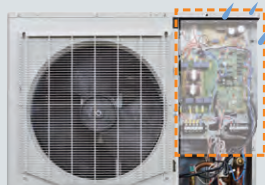
### Improved freedom of piping layout



Hole size becomes 120% bigger.

### A transparent rain cover

Attached as a standard for easy maintenance.



### Wire insertion holes for fall prevention



### 2 Layer Construction

Thanks to control box structure with 2 layer construction using hinge connection, service and maintenance has been made much easier for inverter components.



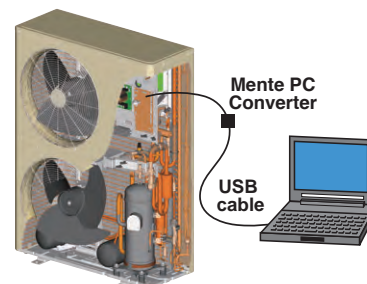
### Fixing screws to service panel

Decreasing number of screws from 5 to 2, installation & service speed is improved.

## Monitoring Function

All outdoor units

To your PC monitoring and service tasks made simple with our service software ("Mente PC").



### Base heater kit (Option)

This kit is recommended to be used in an area where the lowest temperature drops below 0°C.



CW-H-E1

## Easy Transportation & Installation

Compact design of outdoor units.

Standard Inverter

FDC100VNP-W

- Compact model
- Reduction of weight



Fits into elevators



Eazy installation



applied for



|                   |                     |                   |
|-------------------|---------------------|-------------------|
| Hyper Inverter    | FDC71VNX-W          | FDC71VNX          |
|                   | FDC100•125•140VNX-W | FDC100•125•140VNX |
|                   | FDC100•125•140VSX-W | FDC100•125•140VSX |
| Micro Inverter    | FDC100•125•140VNA-W | FDC100•125•140VNA |
|                   | FDC100•125•140VSA-W | FDC100•125•140VSA |
|                   | FDC200•250•280VSA-W | FDC200•250VSA     |
| Standard Inverter | —                   | FDC100VNP         |








# Outdoor units

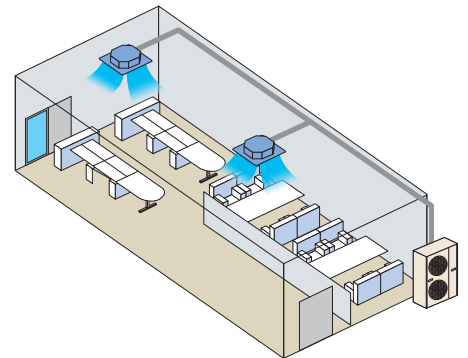
## MULTI SYSTEM

# Twin / Triple / Double Twin Multi System

Up to four indoor units can be connected to a single outdoor unit and operated simultaneously with a single remote control.  
By referring to the following table for applicable indoor units, select the same models and capacities.

### Combination of indoor units








| Outdoor Unit |   | Hyper Inverter  |   |                      |                      | Micro Inverter       |   |   |   |              |             |             |
|--------------|---|---|---|----------------------|----------------------|----------------------|---|---|---|--------------|-------------|-------------|
|              |   |  |  |                      |                      |                      |  |  |  |              |             |             |
| FDC          |  | 71VNX-W   | 100VNX-W<br>100VSX-W  | 125VNX-W<br>125VSX-W | 140VNX-W<br>140VSX-W | 100VNA-W<br>100VSA-W | 125VNA-W<br>125VSA-W  | 140VNA-W<br>140VSA-W  | —   | 200VSA-W     | 250VSA-W    | 280VSA-W    |
|              |  | 71VNX   | 100VNX<br>100VSX  | 125VNX<br>125VSX     | 140VNX<br>140VSX     | 100VNA<br>100VSA     | 125VNA<br>125VSA  | 140VNA<br>140VSA  | 200VSA  | —            | 250VSA      | —           |
| Twin         |   | 40 + 40   | 50 + 50   | 60 + 60              | 71 + 71              | 50 + 50              | 60 + 60   | 71 + 71   | 100 + 100   | 100 + 100    | 125 + 125   | 140 + 140   |
| Triple       |   |   |   |                      | 50 + 50 + 50         |                      |   | 50 + 50 + 50  | 71 + 71 + 71  | 71 + 71 + 71 |             |             |
| Double Twin  |   |   |   |                      |                      |                      |   |   | 50+50+50+50   | 50+50+50+50  | 60+60+60+60 | 71+71+71+71 |

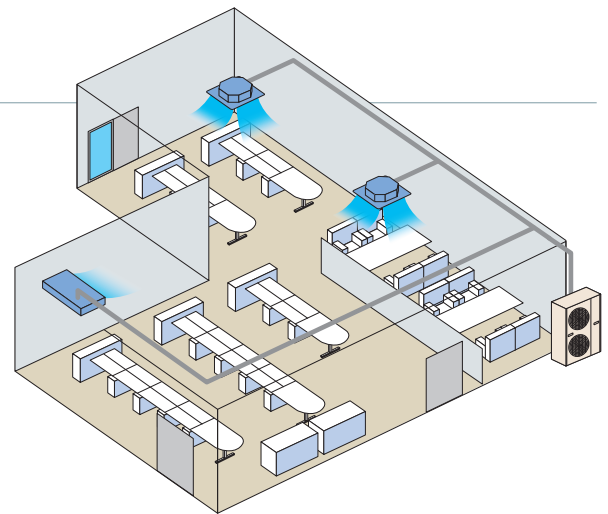


# V Multi System

Ideal for the installation in large areas and L-shaped rooms, the V Multi System has an extensive degree of flexibility in the selection of indoor units. Specifically, the selection of indoor units with different capacities in different types can be made.





### Combination of indoor units

| Outdoor Unit |   | Hyper Inverter  |   |                      |                      | Micro Inverter       |   |   |   |                       |                        |             |
|--------------|---|---|---|----------------------|----------------------|----------------------|---|---|---|-----------------------|------------------------|-------------|
|              |   |  |  |                      |                      |                      |  |  |  |                       |                        |             |
| FDC          |  | 71VNX-W   | 100VNX-W<br>100VSX-W  | 125VNX-W<br>125VSX-W | 140VNX-W<br>140VSX-W | 100VNA-W<br>100VSA-W | 125VNA-W<br>125VSA-W  | 140VNA-W<br>140VSA-W  | —   | 200VSA-W              | 250VSA-W               | 280VSA-W    |
|              |  | 71VNX   | 100VNX<br>100VSX  | 125VNX<br>125VSX     | 140VNX<br>140VSX     | 100VNA<br>100VSA     | 125VNA<br>125VSA  | 140VNA<br>140VSA  | 200VSA  | —                     | 250VSA                 | —           |
| Twin         |   | 40 + 40   | 50 + 50   | 60 + 60<br>50 + 71   | 71 + 71              | 50 + 50              | 60 + 60<br>50 + 71  | 71 + 71   | 100 + 100<br>71 + 125   | 100 + 100<br>71 + 125 | 125 + 125              | 140 + 140   |
| Triple       |   |   |   |                      | 50 + 50 + 50         |                      |   | 50 + 50 + 50  | 71 + 71 + 71  | 71 + 71 + 71          | 60+60+125<br>71+71+100 | 71+71+140   |
| Double Twin  |   |   |   |                      |                      |                      |   |   | 50+50+50+50   | 50+50+50+50           | 60+60+60+60            | 71+71+71+71 |









## Applicable indoor units

| Model  |   | Capacity |     |     |     |     |     |     |
|--|---|----------|-----|-----|-----|-----|-----|-----|
|  |   | 40       | 50  | 60  | 71  | 100 | 125 | 140 |
| Twin / Triple<br>Double Twin<br>Multi System | <b>FDT</b>   | ●        | ●   | ●   | ●   | ●   | ●   | ●   |
|  | <b>FDTC</b>  | ●        | ●   | ●   |     |     |     |     |
|  | <b>FDUM</b>  | ●        | ●   | ●   | ●   | ●   | ●   | ●   |
|  | <b>SRK</b>   |          | ●*1 | ●*1 | ●*2 | ●   |     |     |

\* 1 Hyper Inverter model & Micro Inverter -W model only.

\* 2 Micro Inverter -W model combination only.

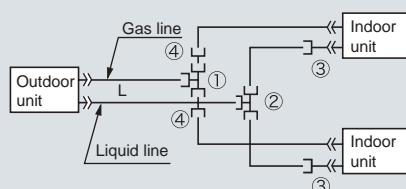
| Model  |  | Capacity |    |    |    |     |     |     |
|--|--|----------|----|----|----|-----|-----|-----|
|  |  | 40       | 50 | 60 | 71 | 100 | 125 | 140 |
| Twin / Triple<br>Double Twin<br>Multi System | <b>FDE</b>  | ●        | ●  | ●  | ●  | ●   | ●   | ●   |
|  | <b>FDL</b>  |          |    |    | ●  | ●   | ●   | ●   |
| V Multi System                               | <b>FDT</b>  | ●        | ●  | ●  | ●  | ●   | ●   | ●   |
|  | <b>FDE</b>  | ●        | ●  | ●  | ●  | ●   | ●   | ●   |

## Choice of piping specification

Diagrams below show the application as samples. For further information, refer to TECHNICAL MANUAL.

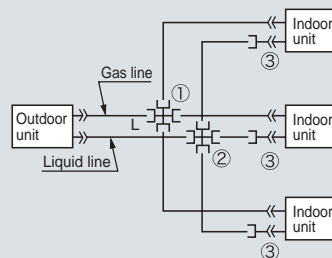
### Twin type

Models FDC71, FDC100~140, FDC200, FDC250, FDC280  
[Branch pipe set : DIS-WA1G, DIS-WB1G]



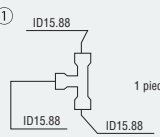
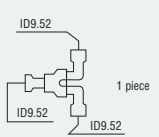
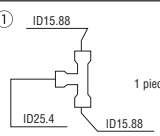
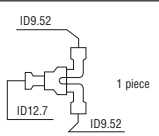
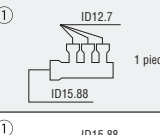
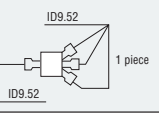
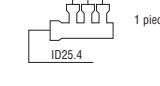
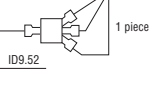
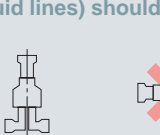
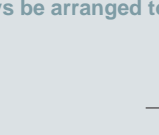
### Triple type

Model FDC140, FDC200  
[Branch pipe set : DIS-TA1G, DIS-TB1G]



The indoor\_outdoor piping length differences among indoor units are less than 3m.

### Chart of shapes of branch piping parts

| Branching pipe set type               | Outdoor unit | Indoor unit combinations | Symbol  |   |  |
|---------------------------------------|--------------|--------------------------|---|---|--|
|                                       |              |                          | Branching pipe set for a gas pipe   | Branching pipe set for a liquid pipe  | Different diameter pipe joint  |
| DIS-WA1G<br>(Two-way branching set)   | FDC71        | 40+40                    |  |  | ③ Joint A 2 pieces<br>ID9.52 Flare Joint (for indoor unit side connection)<br>④ Joint B 2 pieces<br>OD15.88 ID12.7                           |
|                                       | FDC100       | 50+50                    |   |   |  |
|                                       |              | 40+60                    |   |   |  |
|                                       | FDC125       | 60+60                    |   |   |  |
| DIS-WB1G<br>(Two-way branching set)   | FDC140       | 50+71                    |  |  | ④ Joint C 1 piece<br>OD12.7 ID9.52   |
|                                       |              | 71+71                    |   |   |  |
|                                       | FDC200       | 100+100                  |   |   |  |
| DIS-TA1G<br>(Three-way branching set) | FDC250       | 125+125                  |  |  | ③ Joint A 3 pieces<br>Flare Joint (for indoor unit side connection)  |
|                                       | FDC280       | 140+140                  |   |   |  |
| DIS-TB1G<br>(Three-way branching set) | FDC140       | 50+50+50                 |  |  | ③ Joint A 2 pieces<br>Flare joint (for indoor unit side connection)<br>Joint B 1 piece<br>OD15.88 ID12.7<br>Joint D 1 piece<br>ID12.7 OD9.52 |
|                                       | FDC200       | 71+71+71                 |  |  |  |

Symbol ① to ④ in the drawing shows the symbols of branch piping parts in the chart respectively.

Branch piping should always be arranged to have level or perpendicular position.

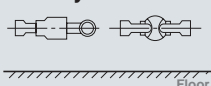
### Notes

- (1) When 40-60 models of indoor units are applied to this combination, the reducer supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size ø9.52mm from branch to indoor unit.
- (2) The reducer ④ is for FDC71 and 100 models only.

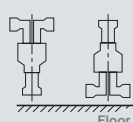
ID stands for inner diameter and OD, outer diameter.

The branch piping (both gas and liquid lines) should always be arranged to have a level or perpendicular position.

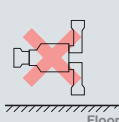
#### 2-Way Branch



Mount — sections level with the floor.

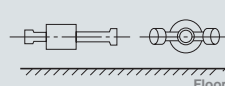


Mount — sections perpendicular to the floor.

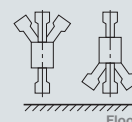


Floor

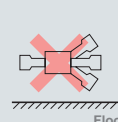
#### 3-Way Branch



Floor




















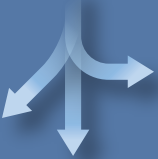




Floor







Floor

# Indoor units

## BENEFITS SUMMARY

|   |  | FDT   | FDTc  | FDU   | FDUM  | SRK   | FDE   | FDF   |
|---|--|---|---|---|---|---|---|---|
|   |  |  |  |  |  |  |  |  |
| <b>Energy-Saving</b><br> |  <b>Inverter Technology</b><br>Inverter control technology delivers high efficiency and a smooth operation from high speed to low speed. A smooth sine voltage wave is attained.  | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
|   |  <b>Energy-Saving Operation *</b><br>Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
|   |  <b>Motion Sensor *</b><br>This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.   | ●<br>Option   | ●<br>Option   | ●<br>Option   | ●<br>Option   | ●<br>Option   | ●<br>Option   | ●<br>Option   |
|   |  <b>Home Leave Operation</b><br>This function ensures that when the room is unoccupied for long periods of time, the unit will maintain a moderate indoor temperature, avoiding extremely hot or cool temperatures.   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
|   |  <b>Set Temperature Auto Return *</b><br>This function allows the user to program a preferred set temperature that the unit will return to each time it is operated.   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| <b>Comfort</b><br>     |  <b>Automatic Operation</b><br>This function automatically selects the required heating or cooling function based on the current room conditions.   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
|   |  <b>Silent Operation</b><br>This function allows the user to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.  | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
|   |  <b>Hi Power Operation</b><br>Use the high power function to quickly reach your optimum temperature level when you first turn on the unit. This function will operate for a maximum of 15 minutes before returning to normal operation.   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| <b>Air Flow</b><br>    |  <b>Flap Control System</b><br>This function allows the user to set the upper and lower limit positions of the flap at each air outlet individually, providing you with complete control over interior air flow.  | ●   | ●   |   |   | ●   | ●   |   |
|   |  <b>Vertical Auto Swing</b><br>The vertical louvers on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louver to the preferred operation angle.  | ●   | ●   |   |   | ●   | ●   | ●   |
|   |  <b>Draft Prevention Setting *</b><br>Draft Prevention setting provides a comfortable air flow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit. | ●<br>Option   | ●<br>Option   |   |   |   |   |   |
|   |  <b>Automatic Fan Speed</b><br>The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |



When using RC-EX3A (Remote control), functions with symbol     are available.

However, for RC-E5 (Remote control), functions with \* are not available.

|   |  | FDT  | FDTC   | FDU  | FDUM   | SRK  | FDE  | FDF  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|   |  | <br>P24 | <br>P42 | <br>P50 | <br>P60 | <br>P74 | <br>P82 | <br>P96 |  |  |  |  |  |  |  |
|   |  |       |       |       |       |       |       |       |  |  |  |  |  |  |  |
| <b>Timer</b><br>         |  <b>Sleep Timer</b><br>This function allows the user to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate for before switching off.                                    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |  |  |  |  |  |
|   |  <b>Peak-Cut Timer *</b><br>This function lets the user to preset the capacity limit during certain periods of the day, minimising energy consumption during peak billing times, thus reducing operation costs. | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |  |  |  |  |  |
|   |  <b>Weekly Timer</b><br>Set the unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |  |  |  |  |  |
| <b>Convenience</b><br> |  <b>Function Switch *</b><br>From the seven available functions on the unit, this function allows the user to set two functions to operate automatically.   | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |  |  |  |  |  |
|   |  <b>Favourite Setting *</b><br>Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite setting.   | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |  |  |  |  |  |
|   |  <b>Select the Language *</b><br>Set the language to be displayed on the remote control.  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |  |  |  |  |  |
|   |  <b>Air Filter</b><br>The air filter in the unit traps and removes airborne dust particles and other allergens to provide you clean air.  | ●  | ●  | Procure locally  | ●<br>Option  | ●  | ●  | ●  |  |  |  |  |  |  |  |
|   |  <b>Filter Sign</b><br>This warning alerts when the filter needs to be cleaned.   | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |  |  |  |  |  |
|   |  <b>Outside Air Intake</b><br>This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.  | ●  | ●  | ●  | ●  |  |  |  |  |  |  |  |  |  |  |
| <b>Others</b>   |  <b>Self Diagnostics</b><br>The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables authorised dealers to isolate and repair any issues.         | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |  |  |  |  |  |
|   |  <b>Built in Drain Pump</b><br>The built-in drain pump, allows greater flexibility with installation, offering a great solution for applications with limited space.  | ●  | ●  | ●<br>*1  | ●  |  |  |  |  |  |  |  |  |  |  |
|   |  <b>Improved Serviceability</b><br>The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be slid out for easy maintenance.                   |  |  | ●  | ●  |  |  |  |  |  |  |  |  |  |  |

\*1 : Except 200 • 250 • 280

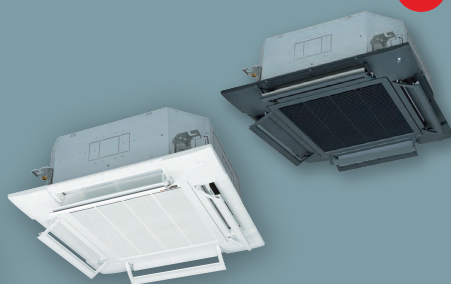
# FDT

Indoor Unit

## Ceiling Cassette -4way-



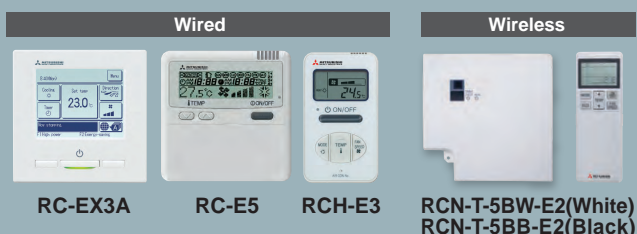
FDT 40/50/60/71/100/125/140



Draft Prevention Panel (Option)



### Remote control (option)



\*Not all functions available with all remote control options.

## Draft Prevention Panel (Option)

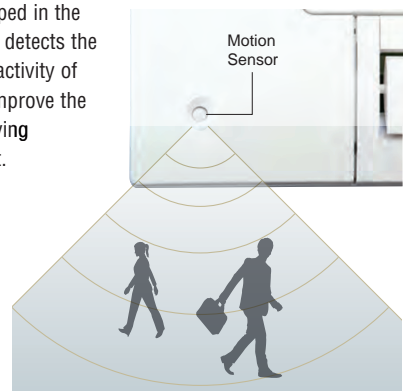
This prevents cold/hot draft being blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.



User can position panels by using the remote controller only (RC-EX3A, Wireless kit) when Draft Prevention Panel is available.

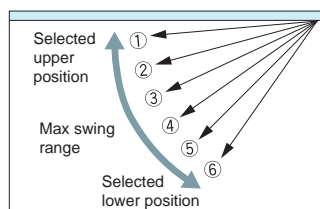
## Motion Sensor (Option)

Motion sensor is equipped in the corner of the panel and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



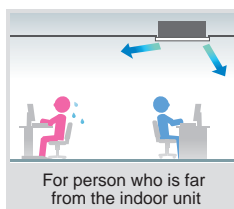
## Individual Flap Control System

According to room conditions, four directions of air flow can be controlled individually by utilizing the flap control system. Individual flap control is available even after installation.

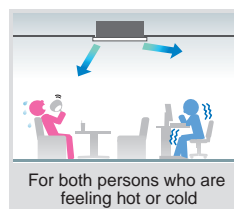


Flap can swing within an upper and lower flap range position within can be selected with a wired remote control.

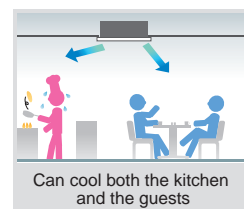
\* The wireless remote control is not applicable to the Individual flap control system.



For person who is far from the indoor unit



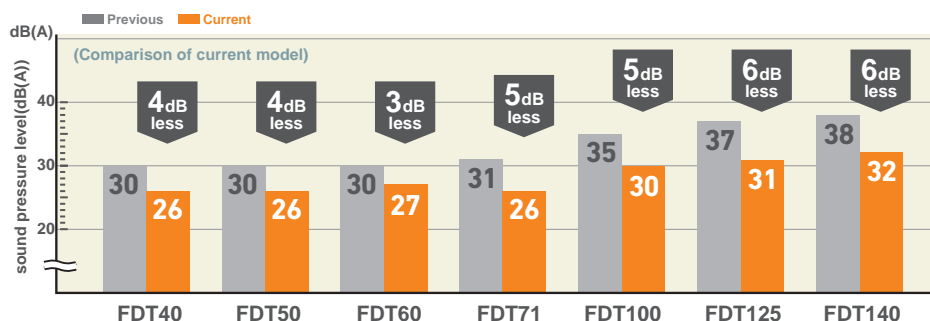
For both persons who are feeling hot or cold



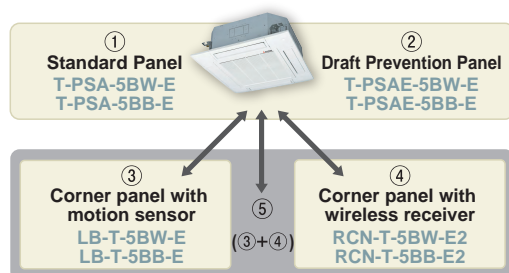
Can cool both the kitchen and the guests

## Reduced Noise

New technology has achieved low noise (in cooling) while keeping capacity and comfort.



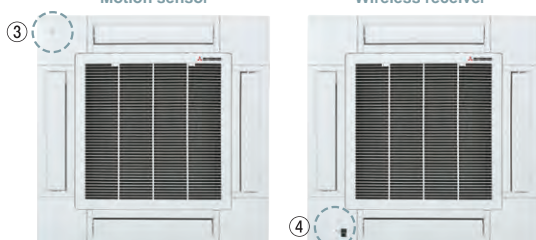
## Panel Select Pattern (Option)



Installation position of Wireless kit and Motion sensor kit

8 patterns of panel are available.

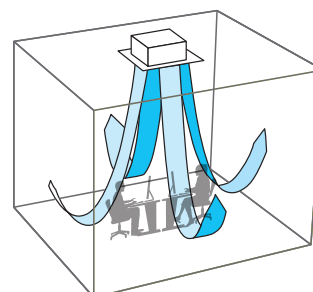
- ① Standard Panel only
- ①+③ Standard Panel with corner panel with motion sensor
- ①+④ Standard Panel with corner panel with wireless receiver
- ①+⑤ Standard Panel with corner panel with motion sensor & corner panel with wireless receiver
- ② Draft Prevention Panel only
- ②+③ Draft Prevention Panel with corner panel with motion sensor
- ②+④ Draft Prevention Panel with corner panel with wireless receiver
- ②+⑤ Draft Prevention Panel with corner panel with motion sensor & corner panel with wireless receiver



\*Wireless receiver and Motion sensor can be installed to the position as shown

## Suitable for High ceilings

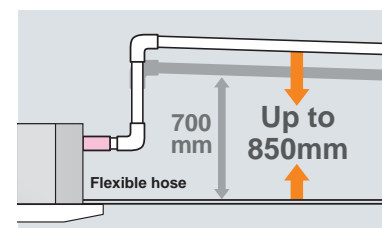
The Powerful blowout carries comfortable air flow to the floor even in high ceiling applications. It is ideal for high ceiling offices, stores, etc., with a wide, uniform air flow throughout the room.



## 850mm Drain Pump

Drain can be discharged upward by 850mm from the ceiling surface close to the indoor unit.

It allows a piping layout with a high degree of freedom depending on the installation location.



## OUTDOOR UNIT

|                             |  | Hyper Inverter       |                      |                   |
|-----------------------------|--|----------------------|----------------------|-------------------|
| SRC • FDC                   |  | 40~60ZSX-W1,-W2      | 71VNX-W              | 100~140VN(S)X-W   |
|                             |  | 40~60ZSX-S           | 71VNX                | 100~140VN(S)X     |
| model                       |  |                      |                      |                   |
| Chargeless                  |  | 15m                  | 30m                  |                   |
| Height x Width x Depth (mm) |  | 640 x 800(+71) x 290 | 750 x 880(+88) x 340 | 1,300 x 970 x 370 |

|                             |  | Micro Inverter  |                   |                   | Standard Inverter    |                      |                 |
|-----------------------------|--|-----------------|-------------------|-------------------|----------------------|----------------------|-----------------|
| FDC                         |  | 100~140VN(S)A-W | —                 | 200•250•280VSA-W  | 71VNP-W              | 90•100VNP-W          | 125VNP-W        |
|                             |  | 100~140VN(S)A   | 200VSA            | 250VSA            | 71VNP                | 90VNP1               | 100VNP          |
| model                       |  |                 |                   |                   |                      |                      |                 |
| Chargeless                  |  | 30m             |                   |                   | 15m                  |                      |                 |
| Height x Width x Depth (mm) |  | 845 x 970 x 370 | 1,300 x 970 x 370 | 1,505 x 970 x 370 | 640 x 800(+71) x 290 | 750 x 880(+88) x 340 | 845 x 970 x 370 |



Easy and quick installation and maintenance

# Serviceability & Workability

Quick positioning !

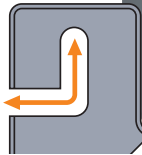
## Indoor unit is easily positioned and installed

### 1 Adjustable easier positioning of unit by new slits.

FDT

New shape of slit is suitable to install the unit with more flexibility, compatible with many kinds of suspending bolt pitch on site. Any rectangular or squared pitch of suspending bolts are available with this slit.

Compatible with both square or rectangular bolt pitch

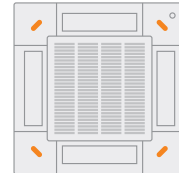
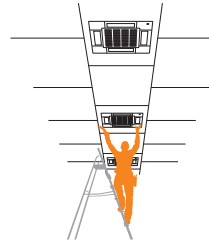


### 2 New slit in panel allows easier installation on site.

FDT

FDTC

Flexible positioning is available, which helps adjusting the direction of panel accordingly to lines or pattern on the ceiling.



4 long slits are available.

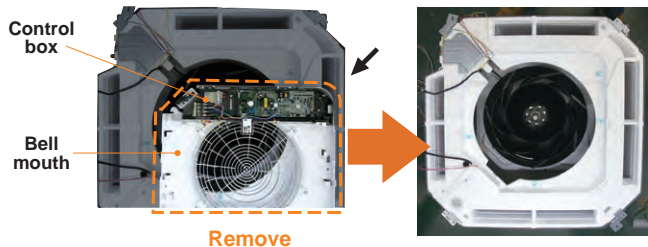
## Quick installation and maintenance

### 1 Easy access to component part for easy maintenance.

FDT

1. The control box and bell mouth can be removed together.

2. Easy access to impeller and fan motor.

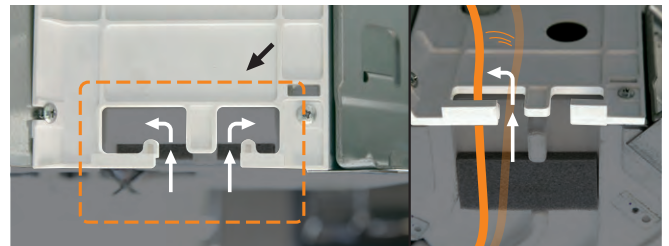


Remove

### 2 New shape of path of wiring.

FDT

New shape of path gives easy wiring work for installation.

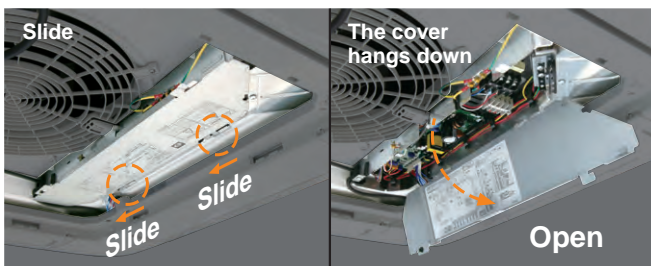


Easy wiring work

### 3 No need to remove screws to open the controller cover.

FDT

It is possible to loose and slide open the cover without removing the screws. This prevents the cover from falling and causing damage on site.



No need to remove screws



### 4 Safer installation by stopper of washer

FDT

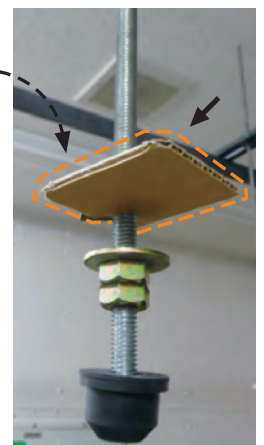
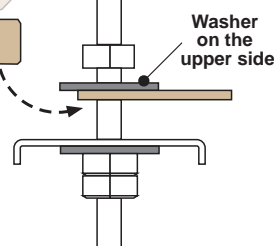
FDTC

When unit is installed with hook between washers, this stopper helps to install the unit safely, without adjusting washer.

Separate the provisional washer securing material.



Stopper





Builder



Maintenance



FDT



FDTC

For smooth and easy working

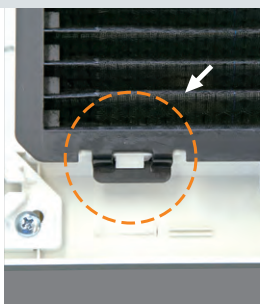
## Good help for installation and maintenance

### 1 Easy and flexible hook to remove the filter

FDT  
FDTC

Hook of soft material helps to remove the filter without dust spreading.

Press the filter tab to the outside and remove the filter.

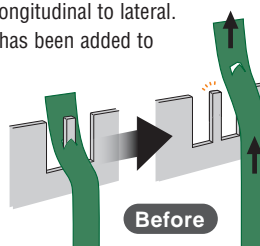


Soft material

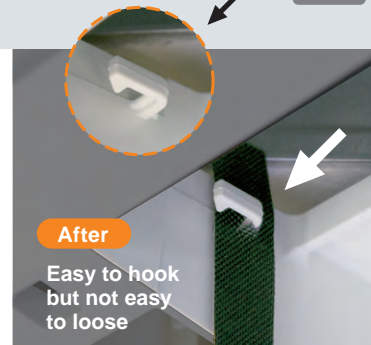
### 2 Securely fix the corner lid by strap

FDT

The direction of the strap hook part has been changed from longitudinal to lateral. Furthermore, a barb has been added to the hook pin to prevent the strap from coming off.



Before



After

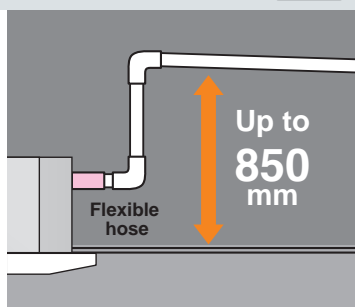
Easy to hook but not easy to loose

### 3 Drain-up-lift increases up to 850 mm

FDT  
FDTC

The drain can be lifted up to 850 mm from the ceiling surface.

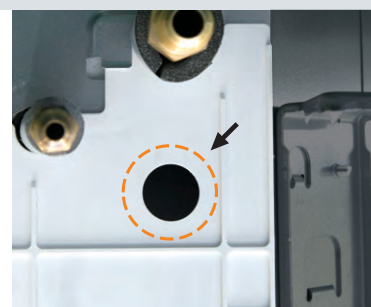
|      | Previous | New |
|------|----------|-----|
| FDT  | 700      | 850 |
| FDTC | 600      | 850 |



### 4 New port to check drain water flow

FDT

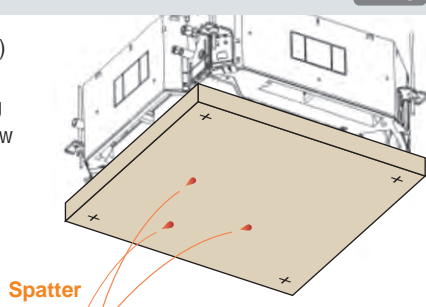
A water supply port has been provided in the piping lid for easier testing of the drain water flow. (The port is usually sealed with a rubber cap.)



### 5 Re-use of packages during construction work

FDT  
FDTC

Package material (carton) helps to protect the unit from unexpected welding spatter or dust on the new unit.

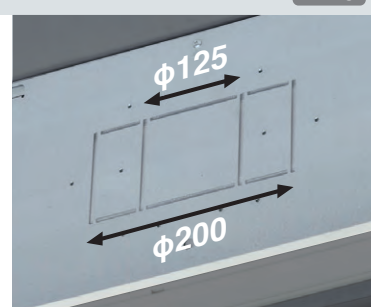
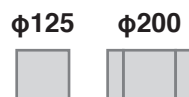


Spatter

### 6 More flexible outlet for ducting

FDT  
FDTC

Both  $\phi 125$  and  $\phi 200$  (oval shaped) are available.



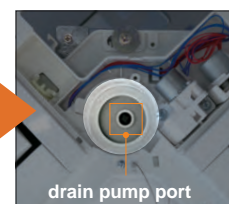
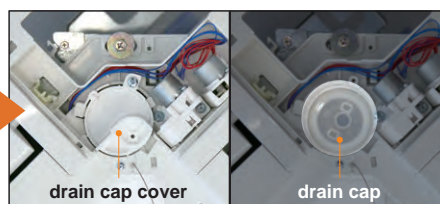
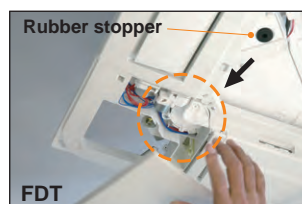
### 7 Easy check of drain pan

FDT  
FDTC

Easy inspection of the condition of the drain pan is possible by removing only the corner lid.



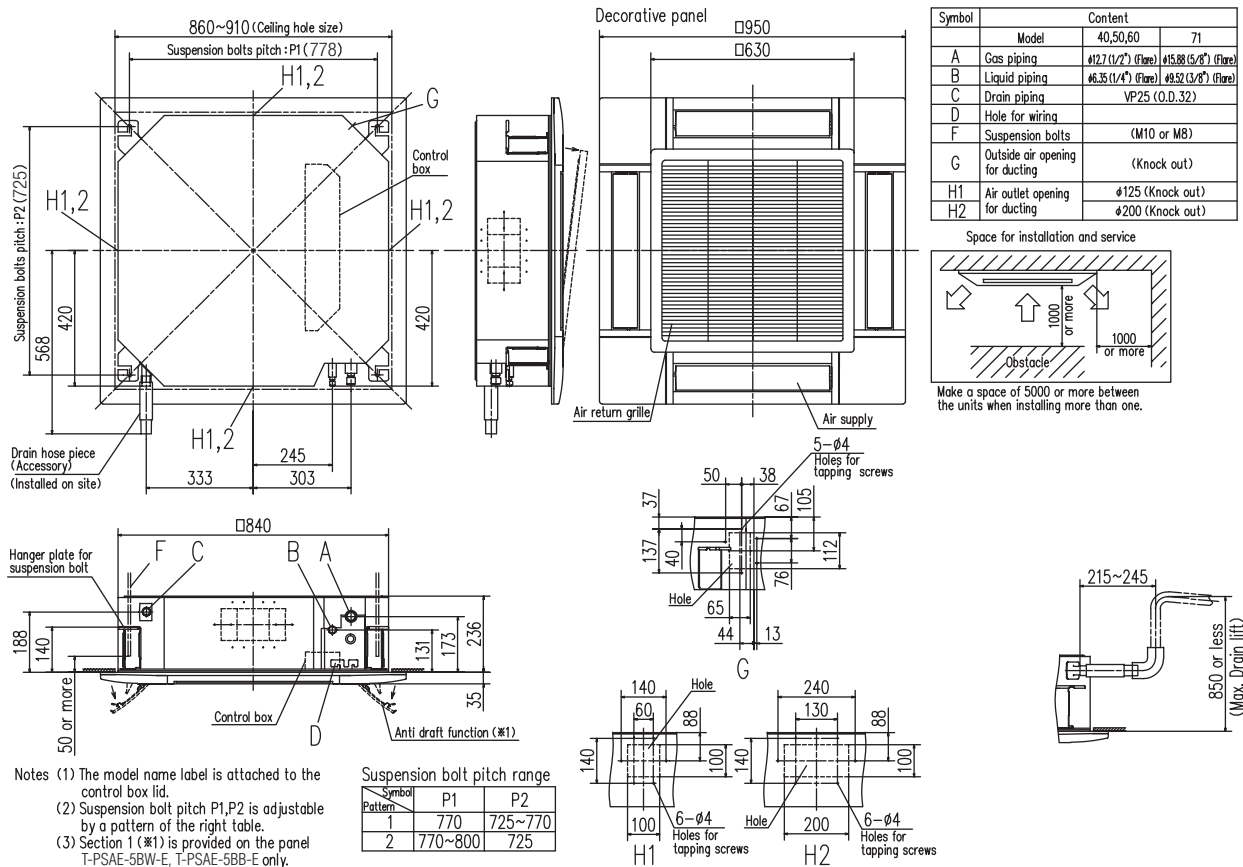
Remove corner lid. Remove drain cap cover and check the condition. It is necessary to clean-up, firstly remove the rubber stopper to drain water out and secondly remove the drain cap.



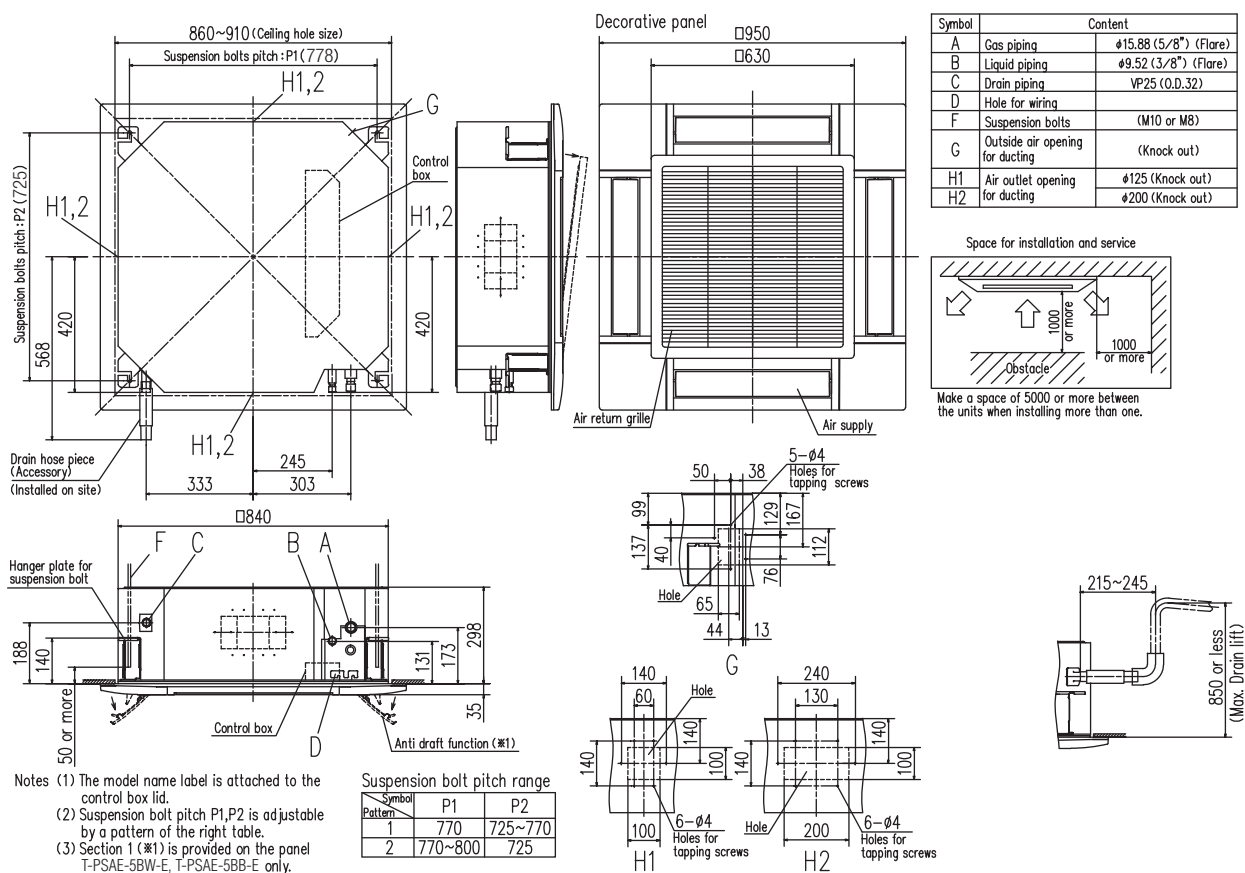
drain pump port

## DIMENSIONS (Unit:mm) - FDT -

### Models FDT40VH, 50VH, 60VH, 71VH



### Models FDT100VH, 125VH, 140VH





| R32                                 |                 |   |                         | Hyper Inverter                              |                          |                              |             |
|-------------------------------------|-----------------|---|-------------------------|---|--------------------------|------------------------------|-------------|
| Set model name                      |                 |   |                         | FDT40ZSXW1VH                                | FDT50ZSXW2VH             | FDT60ZSXW1VH                 | FDT71VNXWVH |
| Indoor unit                         |                 |   |                         | FDT40VH                                     | FDT50VH                  | FDT60VH                      | FDT71VH     |
| Outdoor unit                        |                 |   |                         | SRC40ZSX-W1                                 | SRC50ZSX-W2              | SRC60ZSX-W1                  | FDC71VNX-W  |
| Power source                        |                 |   |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz         |                          |                              |             |
| Nominal cooling capacity (Min~Max)  |                 | kW  | 4.0 ( 1.1 ~ 4.7 )       | 5.0 ( 1.1 ~ 5.6 )                           | 5.6 ( 1.1 ~ 6.3 )        | 7.1 ( 3.2 ~ 8.0 )            |             |
| Nominal heating capacity (Min~Max)  |                 | kW  | 4.5 ( 0.6 ~ 5.4 )       | 5.4 ( 0.6 ~ 6.3 )                           | 6.7 ( 0.6 ~ 6.7 )        | 8.0 ( 3.6 ~ 9.0 )            |             |
| Power consumption                   | Cooling/Heating | kW  | 0.890 / 1.03            | 1.29 / 1.31                                 | 1.33 / 1.56              | 1.69 / 1.75                  |             |
| EER/COP                             | Cooling/Heating |   | 4.49 / 4.37             | 3.88 / 4.12                                 | 4.21 / 4.29              | 4.20 / 4.58                  |             |
| Inrush current                      |                 |   | A                       | 5   | 5                        | 5                            |             |
| Max. current                        |                 |   |                         | 15  | 15                       | 19.1                         |             |
| Sound power level*1                 | Indoor          | Cooling/Heating   | dB(A)                   | 50 / 50                                     | 55 / 56                  | 58 / 59                      |             |
|                                     | Outdoor         | Cooling/Heating   |                         | 63 / 62                                     | 63 / 62                  | 65 / 65                      |             |
| Sound pressure level*1              | Indoor          | Cooling (P-Hi/Hi/Me/Lo)   |                         | 36 / 33 / 30 / 26                           | 41 / 33 / 30 / 26        | 44 / 34 / 30 / 27            |             |
|                                     | Indoor          | Heating (P-Hi/Hi/Me/Lo)   |                         | 36 / 33 / 28 / 20                           | 42 / 33 / 28 / 20        | 44 / 34 / 30 / 23            |             |
| Air flow                            | Outdoor         | Cooling/Heating   | 52 / 50                 | 52 / 50                                     | 53 / 54                  |                              |             |
|                                     | Indoor          | Cooling (P-Hi/Hi/Me/Lo)   | 19 / 16 / 13 / 10       | 22 / 16 / 13 / 10                           | 26 / 17 / 14 / 11        |                              |             |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo)   | 19 / 16 / 13 / 10       | 22 / 16 / 13 / 10                           | 26 / 17 / 14 / 11        |                              |             |
|                                     |                 | Outdoor   | Cooling/Heating         | 33 / 33                                     | 39 / 33                  | 41.5 / 39                    |             |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth  | mm                      | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 |                          |                              |             |
|                                     | Outdoor         |   |                         | 640 x 800(+71) x 290                        |                          | 750 x 880(+88) x 340         |             |
| Net weight                          | Indoor          |   | kg                      | 24(Unit:19 Standard Panel:5)                |                          | 26(Unit:21 Standard Panel:5) |             |
|                                     | Outdoor         |   |                         | 45  |                          | 60                           |             |
| Ref.piping size                     | Liquid/Gas      | ømm   | 6.35(1/4") / 12.7(1/2") |   | 9.52(3/8") / 15.88(5/8") |                              |             |
| Refrigerant line (one way) length   |                 | m   | Max.30                  |   | Max.50                   |                              |             |
| Vertical height differences         |                 | Outdoor is higher/lower   | m                       | Max.20 / Max.20                             |                          | Max.30 / Max.15              |             |
| Outdoor operating temperature range | Cooling         | °CDB  | -15~46*2                |   | -15~50*2                 |                              |             |
|                                     | Heating         | °CWB  | -20~20                  |   |                          |                              |             |
| Panel                               |                 | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                         |   |                          |                              |             |
| Air filter, Q'ty                    |                 | Pocket plastic net x 1(Washable)                                    |                         |   |                          |                              |             |
| Remote control (option)             |                 | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                         |   |                          |                              |             |

| R32                                 |            |                         | Hyper Inverter  |   |                     |
|-------------------------------------|------------|-------------------------|---|---|---------------------|
| Set model name                      |            |                         | FDT100VNXWVH  | FDT125VNXWVH                                | FDT140VNXWVH        |
| Indoor unit                         |            |                         | FDT100VH  | FDT125VH                                    | FDT140VH            |
| Outdoor unit                        |            |                         | FDC100VNX-W   | FDC125VNX-W                                 | FDC140VNX-W         |
| Power source                        |            |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                                 |   |                     |
| Nominal cooling capacity (Min~Max)  |            | kW                      | 10.0 ( 3.5 ~ 11.2 )   | 12.5 ( 3.5 ~ 14.0 )                         | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |            | kW                      | 11.2 ( 2.7 ~ 12.5 )   | 14.0 ( 2.7 ~ 17.0 )                         | 16.0 ( 2.7 ~ 18.0 ) |
| Power consumption                   |            | Cooling/Heating<br>kW   | 2.28 / 2.48   | 3.21 / 3.43                                 | 3.87 / 4.20         |
| EER/COP                             |            | Cooling/Heating         | 4.38 / 4.52   | 3.89 / 4.08                                 | 3.62 / 3.81         |
| Inrush current                      |            | A                       | 5   | 5   | 5                   |
| Max. current                        |            |                         | 25  | 27  | 27                  |
| Sound power level* <sup>1</sup>     | Indoor     | Cooling/Heating         | dB(A)   | 62 / 62                                     | 63 / 64             |
|                                     | Outdoor    |                         |   | Cooling/Heating                             | 67 / 67             |
| Sound pressure level* <sup>1</sup>  | Indoor     | Cooling (P-Hi/Hi/Me/Lo) |   | 47 / 39 / 36 / 30                           | 48 / 41 / 39 / 31   |
|                                     |            | Heating (P-Hi/Hi/Me/Lo) |   | 47 / 39 / 36 / 29                           | 48 / 41 / 38 / 31   |
| Air flow                            | Outdoor    | Cooling/Heating         | 53 / 51   | 53 / 54                                     |                     |
|                                     |            | Cooling (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18                           |                     |
|                                     | Indoor     | Heating (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18                           |                     |
|                                     |            | Outdoor                 | Cooling/Heating   | 100 / 100                                   | 100 / 100           |
| Exterior dimensions                 | Indoor     | HeightxWidthxDepth      | mm  | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950 |                     |
|                                     | Outdoor    |                         |   | 1,300 x 970 x 370                           |                     |
| Net weight                          | Indoor     |                         | kg  | 30(Unit:25 Standard Panel:5)                |                     |
|                                     | Outdoor    |                         |   | 97  |                     |
| Ref.piping size                     | Liquid/Gas |                         | ømm   | 9.52(3/8") / 15.88(5/8")                    |                     |
| Refrigerant line (one way) length   |            |                         | m   | Max.100                                     |                     |
| Vertical height differences         |            |                         | Outdoor is higher/lower   | m Max.50 / Max.15                           |                     |
| Outdoor operating temperature range | Cooling    | °CDB                    | -15~50* <sup>2</sup>  |   |                     |
|                                     | Heating    |                         |   |   |                     |
| Panel                               |            |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |   |                     |
| Air filter, Q'ty                    |            |                         | Pocket plastic net x 1(Washable)                                    |   |                     |
| Remote control (option)             |            |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |   |                     |

**NOTES:**

The data are measured under the following conditions(ISO-T1, -H1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

## SPECIFICATIONS -FDT-

| R32                                 |         |                         | Hyper Inverter  |                     |                     |
|-------------------------------------|---------|-------------------------|---|---------------------|---------------------|
| Set model name                      |         |                         | FDT100VSXWVH  | FDT125VSXWVH        | FDT140VSXWVH        |
| Indoor unit                         |         |                         | FDT100VH  | FDT125VH            | FDT140VH            |
| Outdoor unit                        |         |                         | FDC100VSX-W   | FDC125VSX-W         | FDC140VSX-W         |
| Power source                        |         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |                     |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 3.5 ~ 11.2 )   | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 2.7 ~ 16.0 )   | 14.0 ( 2.7 ~ 18.0 ) | 16.0 ( 2.7 ~ 20.0 ) |
| Power consumption                   |         |                         | 2.28 / 2.48   | 3.21 / 3.43         | 3.87 / 4.20         |
| EER/COP                             |         |                         | 4.38 / 4.52   | 3.89 / 4.08         | 3.62 / 3.81         |
| Inrush current                      |         |                         | 5   | 5                   | 5                   |
| Max. current                        |         |                         | 14  | 14                  | 14                  |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 62 / 62   | 63 / 64             | 63 / 64             |
|                                     | Outdoor | Cooling/Heating         | 67 / 67   | 68 / 70             | 69 / 71             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 30   | 48 / 41 / 39 / 31   | 48 / 42 / 39 / 32   |
|                                     | Outdoor | Heating (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 29   | 48 / 41 / 38 / 31   | 48 / 41 / 38 / 31   |
| Air flow                            | Indoor  | Cooling/Heating         | 53 / 51   | 53 / 54             | 54 / 54             |
|                                     | Outdoor | Cooling/Heating         | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
| Exterior dimensions                 |         |                         | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950                         |                     |                     |
| Net weight                          |         |                         | 1,300 x 970 x 370   |                     |                     |
| Ref.piping size                     |         |                         | 30(Unit:25 Standard Panel:5)  |                     |                     |
| Refrigerant line (one way) length   |         |                         | 99  |                     |                     |
| Vertical height differences         |         |                         | 9.52(3/8") / 15.88(5/8")  |                     |                     |
| Outdoor operating temperature range |         |                         | Max.100   |                     |                     |
| Panel                               |         |                         | Max.50 / Max.15   |                     |                     |
| Air filter, Q'ty                    |         |                         | -15~50*2  |                     |                     |
| Remote control (option)             |         |                         | -20~20  |                     |                     |
|                                     |         |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                     |                     |
|                                     |         |                         | Pocket plastic net x 1(Washable)                                    |                     |                     |
|                                     |         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                     |                     |

The values are for simultaneous Multi operation.

| R32                                 |          |                         | Hyper Inverter  |                     |                     |                     |                     |
|-------------------------------------|----------|-------------------------|---|---------------------|---------------------|---------------------|---------------------|
| Set model name                      |          |                         | FDT71VNXWVH   | FDT100VNXWVH        | FDT125VNXWVH        | FDT140VNXWVH        | FDT140VNXWTVH       |
| Indoor unit                         |          |                         | Twin  |                     |                     |                     |                     |
| Outdoor unit                        |          |                         | Triple  |                     |                     |                     |                     |
| Power source                        |          |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                                 |                     |                     |                     |                     |
| Nominal cooling capacity (Min~Max)  |          |                         | 7.1 ( 3.2 ~ 8.0 )   | 10.0 ( 3.5 ~ 11.2 ) | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |          |                         | 8.0 ( 3.6 ~ 9.0 )   | 11.2 ( 2.7 ~ 12.5 ) | 14.0 ( 2.7 ~ 17.0 ) | 16.0 ( 2.7 ~ 18.0 ) | 16.0 ( 2.7 ~ 18.0 ) |
| Power consumption                   |          |                         | 1.61 / 1.83   | 2.30 / 2.64         | 2.98 / 3.03         | 3.44 / 3.64         | 3.48 / 3.74         |
| EER/COP                             |          |                         | 4.40 / 4.38   | 4.35 / 4.25         | 4.19 / 4.62         | 4.07 / 4.40         | 4.02 / 4.28         |
| Inrush current                      |          |                         | 5   | 5                   | 5                   | 5                   | 5                   |
| Max. current                        |          |                         | 19.1  | 25                  | 27                  | 27                  | 27                  |
| Sound power level*1                 | Indoor*3 | Cooling/Heating         | 50 / 50   | 55 / 56             | 58 / 59             | 59 / 60             | 55 / 56             |
|                                     | Outdoor  | Cooling/Heating         | 66 / 66   | 67 / 67             | 68 / 70             | 69 / 71             | 69 / 71             |
| Sound pressure level*1              | Indoor*3 | Cooling (P-Hi/Hi/Me/Lo) | 36 / 33 / 30 / 26   | 41 / 33 / 30 / 26   | 44 / 34 / 30 / 27   | 46 / 34 / 31 / 26   | 41 / 33 / 30 / 26   |
|                                     | Outdoor  | Heating (P-Hi/Hi/Me/Lo) | 36 / 33 / 28 / 20   | 42 / 33 / 28 / 20   | 44 / 34 / 30 / 23   | 46 / 34 / 31 / 26   | 42 / 33 / 28 / 20   |
| Air flow                            | Indoor*3 | Cooling/Heating         | 51 / 51   | 53 / 51             | 53 / 54             | 54 / 54             | 54 / 54             |
|                                     | Outdoor  | Cooling/Heating         | 19 / 16 / 13 / 10   | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11   | 28 / 18 / 15 / 12   | 22 / 16 / 13 / 10   |
| Exterior dimensions                 |          |                         | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950                         |                     |                     |                     |                     |
| Net weight                          |          |                         | 750 x 880(+88) x 340  |                     |                     |                     |                     |
| Ref.piping size                     |          |                         | 1,300 x 970 x 370   |                     |                     |                     |                     |
| Refrigerant line (one way) length   |          |                         | 24(Unit:19 Standard Panel:5)  |                     |                     |                     |                     |
| Vertical height differences         |          |                         | 60  |                     |                     |                     |                     |
| Outdoor operating temperature range |          |                         | 97  |                     |                     |                     |                     |
| Panel                               |          |                         | 9.52(3/8") / 15.88(5/8")  |                     |                     |                     |                     |
| Air filter, Q'ty                    |          |                         | Max. 50   |                     |                     |                     |                     |
| Remote control (option)             |          |                         | Max.100   |                     |                     |                     |                     |
|                                     |          |                         | Max.30 / Max.15   |                     |                     |                     |                     |
|                                     |          |                         | -15~50*2  |                     |                     |                     |                     |
|                                     |          |                         | -20~20  |                     |                     |                     |                     |
|                                     |          |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                     |                     |                     |                     |
|                                     |          |                         | Pocket plastic net x 1(Washable)                                    |                     |                     |                     |                     |
|                                     |          |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                     |                     |                     |                     |

### NOTES:

The data are measured under the following conditions(R32:ISO-T1,-H1 / R410A:ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

FDT | Indoor Unit

| R32                                 |            |                         |        | HyperInverter   |  |                              |  |                     |  |                              |  |
|-------------------------------------|------------|-------------------------|--------|---|--|------------------------------|--|---------------------|--|------------------------------|--|
| Set model name                      |            |                         |        | FDT100VSXWPVH   |  | FDT125VSXWPVH                |  | FDT140VSXWPVH       |  | FDT140VSXWTVH                |  |
|                                     |            |                         |        | Twin  |  |                              |  | Triple              |  |                              |  |
| Indoor unit                         |            |                         |        | FDT50VH x 2   |  | FDT60VH x 2                  |  | FDT71VH x 2         |  | FDT50VH x 3                  |  |
| Outdoor unit                        |            |                         |        | FDC100VSX-W   |  | FDC125VSX-W                  |  | FDC140VSX-W         |  | FDC140VSX-W                  |  |
| Power source                        |            |                         |        | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |  |                              |  |                     |  |                              |  |
| Nominal cooling capacity (Min~Max)  |            | kW                      |        | 10.0 ( 3.5 ~ 11.2 )   |  | 12.5 ( 3.5 ~ 14.0 )          |  | 14.0 ( 3.5 ~ 16.0 ) |  | 14.0 ( 3.5 ~ 16.0 )          |  |
| Nominal heating capacity (Min~Max)  |            | kW                      |        | 11.2 ( 2.7 ~ 16.0 )   |  | 14.0 ( 2.7 ~ 18.0 )          |  | 16.0 ( 2.7 ~ 20.0 ) |  | 16.0 ( 2.7 ~ 20.0 )          |  |
| Power consumption                   |            | Cooling/Heating         | kW     | 2.30 / 2.64   |  | 2.98 / 3.03                  |  | 3.44 / 3.64         |  | 3.48 / 3.74                  |  |
| EER/COP                             |            | Cooling/Heating         |        | 4.35 / 4.25   |  | 4.19 / 4.62                  |  | 4.07 / 4.40         |  | 4.02 / 4.28                  |  |
| Inrush current                      |            |                         | A      | 5   |  | 5                            |  | 5                   |  | 5                            |  |
| Max. current                        |            |                         |        | 14  |  | 14                           |  | 14                  |  | 14                           |  |
| Sound power level*1                 | Indoor*3   | Cooling/Heating         | dB(A)  | 55 / 56   |  | 58 / 59                      |  | 59 / 60             |  | 55 / 56                      |  |
|                                     | Outdoor    | Cooling/Heating         |        | 67 / 67   |  | 68 / 70                      |  | 69 / 71             |  | 69 / 71                      |  |
| Sound pressure level*1              | Indoor*3   | Cooling (P-Hi/Hi/Me/Lo) |        | 41 / 33 / 30 / 26   |  | 44 / 34 / 30 / 27            |  | 46 / 34 / 31 / 26   |  | 41 / 33 / 30 / 26            |  |
|                                     |            | Heating (P-Hi/Hi/Me/Lo) |        | 42 / 33 / 28 / 20   |  | 44 / 34 / 30 / 23            |  | 46 / 34 / 31 / 26   |  | 42 / 33 / 28 / 20            |  |
|                                     | Outdoor    | Cooling/Heating         |        | 53 / 51   |  | 53 / 54                      |  | 54 / 54             |  | 54 / 54                      |  |
|                                     |            | Cooling (P-Hi/Hi/Me/Lo) |        | 22 / 16 / 13 / 10   |  | 26 / 17 / 14 / 11            |  | 28 / 18 / 15 / 12   |  | 22 / 16 / 13 / 10            |  |
| Air flow                            | Indoor*3   | Heating (P-Hi/Hi/Me/Lo) | m³/min | 22 / 16 / 13 / 10   |  | 26 / 17 / 14 / 11            |  | 28 / 18 / 15 / 12   |  | 22 / 16 / 13 / 10            |  |
|                                     | Outdoor    | Cooling/Heating         |        | 100 / 100   |  | 100 / 100                    |  | 100 / 100           |  | 100 / 100                    |  |
| Exterior dimensions                 | Indoor     | HeightxWidthxDepth      | mm     | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950                         |  |                              |  |                     |  |                              |  |
|                                     | Outdoor    |                         |        | 1,300 x 970 x 370   |  |                              |  |                     |  |                              |  |
| Net weight                          | Indoor     |                         | kg     | 24(Unit:19 Standard Panel:5)  |  | 26(Unit:21 Standard Panel:5) |  |                     |  | 24(Unit:19 Standard Panel:5) |  |
|                                     | Outdoor    |                         |        | 99  |  |                              |  |                     |  |                              |  |
| Ref.piping size                     | Liquid/Gas |                         | ømm    | 9.52(3/8") / 15.88(5/8")  |  |                              |  |                     |  |                              |  |
| Refrigerant line (one way) length   |            | m                       |        | Max.100   |  |                              |  |                     |  |                              |  |
| Vertical height differences         |            | Outdoor is higher/lower |        | Max.50 / Max.15   |  |                              |  |                     |  |                              |  |
| Outdoor operating temperature range | Cooling    | °CDB                    |        | -15~50*2  |  |                              |  |                     |  |                              |  |
|                                     | Heating    | °CWB                    |        | -20~20  |  |                              |  |                     |  |                              |  |
| Panel                               |            |                         |        | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |  |                              |  |                     |  |                              |  |
| Air filter, Q'ty                    |            |                         |        | Pocket plastic net x 1(Washable)                                    |  |                              |  |                     |  |                              |  |
| Remote control (option)             |            |                         |        | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |  |                              |  |                     |  |                              |  |

| R410A                               |                 |                         | HyperInverter   |                   |                              |                          |
|-------------------------------------|-----------------|-------------------------|---|-------------------|------------------------------|--------------------------|
| Set model name                      |                 |                         | FDT40ZSXVH  | FDT50ZSXVH        | FDT60ZSXVH                   | FDT71VNXVH               |
| Indoor unit                         |                 |                         | FDT40VH   | FDT50VH           | FDT60VH                      | FDT71VH                  |
| Outdoor unit                        |                 |                         | SRC40ZSX-S  | SRC50ZSX-S        | SRC60ZSX-S                   | FDC71VNX                 |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                                 |                   |                              |                          |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 4.0 ( 1.1 ~ 4.7 )   | 5.0 ( 1.1 ~ 5.6 ) | 5.6 ( 1.1 ~ 6.3 )            | 7.1 ( 3.2 ~ 8.0 )        |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 4.5 ( 0.6 ~ 5.4 )   | 5.4 ( 0.6 ~ 6.3 ) | 6.7 ( 0.6 ~ 7.1 )            | 8.0 ( 3.6 ~ 9.0 )        |
| Power consumption                   | Cooling/Heating | kW                      | 0.93 / 1.03   | 1.29 / 1.31       | 1.52 / 1.56                  | 1.96 / 1.91              |
| EER/COP                             | Cooling/Heating |                         | 4.30 / 4.37   | 3.88 / 4.12       | 3.68 / 4.29                  | 3.62/4.19                |
| Inrush current                      | A               |                         | 5   | 5                 | 5                            | 5                        |
| Max. current                        |                 |                         | 12  | 15                | 15                           | 17                       |
| Sound power level*1                 | Indoor          | Cooling/Heating         | 50 / 50   | 55 / 56           | 58 / 59                      | 59 / 60                  |
|                                     | Outdoor         | Cooling/Heating         | 63 / 63   | 63 / 63           | 65 / 64                      | 66 / 66                  |
| Sound pressure level*1              | Indoor          | Cooling (P-Hi/Hi/Me/Lo) | 36 / 33 / 30 / 26   | 41 / 33 / 30 / 26 | 44 / 34 / 30 / 27            | 46 / 34 / 31 / 26        |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 36 / 33 / 28 / 20   | 42 / 33 / 28 / 20 | 44 / 34 / 30 / 23            | 46 / 34 / 31 / 26        |
|                                     | Outdoor         | Cooling/Heating         | 50 / 49   | 50 / 49           | 52 / 52                      | 51 / 48                  |
| Air flow                            | Indoor          | Cooling (P-Hi/Hi/Me/Lo) | 19 / 16 / 13 / 10   | 22 / 16 / 13 / 10 | 26 / 17 / 14 / 11            | 28 / 18 / 15 / 12        |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 19 / 16 / 13 / 10   | 22 / 16 / 13 / 10 | 26 / 17 / 14 / 11            | 28 / 18 / 15 / 12        |
|                                     | Outdoor         | Cooling/Heating         | 36 / 33   | 39 / 33           | 41.5 / 39                    | 60 / 50                  |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950                         |                   |                              |                          |
|                                     | Outdoor         |                         | 640 x 800(+71) x 290  |                   |                              | 750 x 880(+88) x 340     |
| Net weight                          | Indoor          | kg                      | 24(Unit:19 Standard Panel:5)  |                   | 26(Unit:21 Standard Panel:5) |                          |
|                                     | Outdoor         |                         | 45  |                   | 60                           |                          |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 6.35(1/4") / 12.7(1/2")   |                   |                              | 9.52(3/8") / 15.88(5/8") |
| Refrigerant line (one way) length   |                 | m                       | Max.30  |                   |                              | Max. 50                  |
| Vertical height differences         |                 | Outdoor is higher/lower | Max.20 / Max.20   |                   |                              | Max.30 / Max.15          |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~46*2  |                   |                              | -15~43*2                 |
|                                     | Heating         | °CWB                    | -20~20  |                   |                              |                          |
| Panel                               |                 |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                   |                              |                          |
| Air filter, Q'ty                    |                 |                         | Pocket plastic net x 1(Washable)                                    |                   |                              |                          |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                   |                              |                          |



## SPECIFICATIONS -FDT-

| R410A                               |         |                         | Hyper Inverter  |                     |                     |
|-------------------------------------|---------|-------------------------|---|---------------------|---------------------|
| Set model name                      |         |                         | FDT100VNXVH   | FDT125VNXVH         | FDT140VNXVH         |
| Indoor unit                         |         |                         | FDT100VH  | FDT125VH            | FDT140VH            |
| Outdoor unit                        |         |                         | FDC100VNX   | FDC125VNX           | FDC140VNX           |
| Power source                        |         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                                 |                     |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 4.0 ~ 12.5 )   | 14.0 ( 4.0 ~ 17.0 ) | 16.0 ( 4.0 ~ 18.0 ) |
| Power consumption                   |         |                         | 2.50 / 2.58   | 3.42 / 3.43         | 4.58 / 4.20         |
| EER/COP                             |         |                         | 4.00 / 4.34   | 3.65 / 4.08         | 3.06 / 3.81         |
| Inrush current                      |         |                         | 5   | 5                   | 5                   |
| Max. current                        |         |                         | 24  | 26                  | 26                  |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 62 / 62   | 63 / 64             | 63 / 64             |
|                                     | Outdoor | Cooling/Heating         | 70 / 70   | 70 / 70             | 72 / 72             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 30   | 48 / 41 / 39 / 31   | 48 / 42 / 39 / 32   |
|                                     | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 29   | 48 / 41 / 38 / 31   | 48 / 41 / 38 / 31   |
|                                     | Outdoor | Cooling/Heating         | 48 / 50   | 48 / 50             | 49 / 52             |
|                                     | Outdoor | Cooling/Heating         | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
| Air flow                            | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
|                                     | Outdoor | Cooling/Heating         | 100 / 100   | 100 / 100           | 100 / 100           |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950                         |                     |                     |
|                                     | Outdoor |                         | 1,300 x 970 x 370   |                     |                     |
| Net weight                          | Indoor  |                         | 30(Unit:25 Standard Panel:5)  |                     |                     |
|                                     | Outdoor |                         | 105   |                     |                     |
| Ref.piping size                     |         |                         | 9.52(3/8") / 15.88(5/8")  |                     |                     |
| Refrigerant line (one way) length   |         |                         | Max.100   |                     |                     |
| Vertical height differences         |         |                         | Max.30 / Max.15   |                     |                     |
| Outdoor operating temperature range | Cooling | °CDB                    | -15~43*2  |                     |                     |
|                                     | Heating | °CWB                    | -20~20  |                     |                     |
| Panel                               |         |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                     |                     |
| Air filter, Q'ty                    |         |                         | Pocket plastic net x 1(Washable)                                    |                     |                     |
| Remote control (option)             |         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                     |                     |

| R410A                               |         |                         | Hyper Inverter  |                     |                     |
|-------------------------------------|---------|-------------------------|---|---------------------|---------------------|
| Set model name                      |         |                         | FDT100VSXVH   | FDT125VSXVH         | FDT140VSXVH         |
| Indoor unit                         |         |                         | FDT100VH  | FDT125VH            | FDT140VH            |
| Outdoor unit                        |         |                         | FDC100VSX   | FDC125VSX           | FDC140VSX           |
| Power source                        |         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |                     |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 4.0 ~ 16.0 )   | 14.0 ( 4.0 ~ 18.0 ) | 16.0 ( 4.0 ~ 20.0 ) |
| Power consumption                   |         |                         | 2.50 / 2.58   | 3.42 / 3.43         | 4.58 / 4.20         |
| EER/COP                             |         |                         | 4.00 / 4.34   | 3.65 / 4.08         | 3.06 / 3.81         |
| Inrush current                      |         |                         | 5   | 5                   | 5                   |
| Max. current                        |         |                         | 15  | 15                  | 15                  |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 62 / 62   | 63 / 64             | 63 / 64             |
|                                     | Outdoor | Cooling/Heating         | 70 / 70   | 70 / 70             | 72 / 72             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 30   | 48 / 41 / 39 / 31   | 48 / 42 / 39 / 32   |
|                                     | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 29   | 48 / 41 / 38 / 31   | 48 / 41 / 38 / 31   |
|                                     | Outdoor | Cooling/Heating         | 48 / 50   | 48 / 50             | 49 / 52             |
|                                     | Outdoor | Cooling/Heating         | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
| Air flow                            | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
|                                     | Outdoor | Cooling/Heating         | 100 / 100   | 100 / 100           | 100 / 100           |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950                         |                     |                     |
|                                     | Outdoor |                         | 1,300 x 970 x 370   |                     |                     |
| Net weight                          | Indoor  |                         | 30(Unit:25 Standard Panel:5)  |                     |                     |
|                                     | Outdoor |                         | 105   |                     |                     |
| Ref.piping size                     |         |                         | 9.52(3/8") / 15.88(5/8")  |                     |                     |
| Refrigerant line (one way) length   |         |                         | Max.100   |                     |                     |
| Vertical height differences         |         |                         | Max.30 / Max.15   |                     |                     |
| Outdoor operating temperature range | Cooling | °CDB                    | -15~43*2  |                     |                     |
|                                     | Heating | °CWB                    | -20~20  |                     |                     |
| Panel                               |         |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                     |                     |
| Air filter, Q'ty                    |         |                         | Pocket plastic net x 1(Washable)                                    |                     |                     |
| Remote control (option)             |         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                     |                     |

### NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

FDT | Indoor Unit

| R410A                               |            |                         | HyperInverter                       |   |                     |                              |                     |                              |
|-------------------------------------|------------|-------------------------|-------------------------------------|---|---------------------|------------------------------|---------------------|------------------------------|
| Set model name                      |            |                         | FDT71VNXPVH                         | FDT100VNXPVH  | FDT125VNXPVH        | FDT140VNXPVH                 | FDT140VNXTVH        |                              |
|                                     |            |                         | Twin                                |   |                     |                              | Triple              |                              |
| Indoor unit                         |            |                         | FDT40VH x 2                         | FDT50VH x 2   | FDT60VH x 2         | FDT71VH x 2                  | FDT50VH x 3         |                              |
| Outdoor unit                        |            |                         | FDC71VNX                            | FDC100VNX   | FDC125VNX           | FDC140VNX                    | FDC140VNX           |                              |
| Power source                        |            |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |   |                     |                              |                     |                              |
| Nominal cooling capacity (Min~Max)  |            | kW                      | 7.1 ( 3.2 ~ 8.0 )                   | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 )          | 14.0 ( 5.0 ~ 16.0 ) |                              |
| Nominal heating capacity (Min~Max)  |            | kW                      | 8.0 ( 3.6 ~ 9.0 )                   | 11.2 ( 4.0 ~ 12.5 )   | 14.0 ( 4.0 ~ 17.0 ) | 16.0 ( 4.0 ~ 18.0 )          | 16.0 ( 4.0 ~ 18.0 ) |                              |
| Power consumption                   |            | Cooling/Heating         | kW                                  | 1.85 / 1.99   | 2.56 / 2.67         | 3.26 / 3.22                  | 3.88 / 3.74         | 3.93 / 4.00                  |
| EER/COP                             |            | Cooling/Heating         |                                     | 3.84 / 4.02   | 3.91 / 4.19         | 3.83 / 4.35                  | 3.61 / 4.28         | 3.56 / 4.00                  |
| Inrush current                      |            | A                       |                                     | 5   | 5                   | 5                            | 5                   | 5                            |
| Max. current                        |            |                         |                                     | 17  | 24                  | 26                           | 26                  | 26                           |
| Sound power level*1                 | Indoor*3   | Cooling/Heating         | dB(A)                               | 50 / 50   | 55 / 56             | 58 / 59                      | 59 / 60             | 55 / 56                      |
|                                     | Outdoor    | Cooling/Heating         |                                     | 66 / 66   | 70 / 70             | 70 / 70                      | 72 / 72             | 72 / 72                      |
| Sound pressure level*1              | Indoor*3   | Cooling (P-Hi/Hi/Me/Lo) |                                     | 36 / 33 / 30 / 26   | 41 / 33 / 30 / 26   | 44 / 34 / 30 / 27            | 46 / 34 / 31 / 26   | 41 / 33 / 30 / 26            |
|                                     |            | Heating (P-Hi/Hi/Me/Lo) |                                     | 36 / 33 / 28 / 20   | 42 / 33 / 28 / 20   | 44 / 34 / 30 / 23            | 46 / 34 / 31 / 26   | 42 / 33 / 28 / 20            |
| Air flow                            | Outdoor    | Cooling/Heating         |                                     | 51 / 48   | 48 / 50             | 48 / 50                      | 49 / 52             | 49 / 52                      |
|                                     | Indoor*3   | Cooling (P-Hi/Hi/Me/Lo) | m³/min                              | 19 / 16 / 13 / 10   | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11            | 28 / 18 / 15 / 12   | 22 / 16 / 13 / 10            |
|                                     |            | Heating (P-Hi/Hi/Me/Lo) |                                     | 19 / 16 / 13 / 10   | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11            | 28 / 18 / 15 / 12   | 22 / 16 / 13 / 10            |
|                                     | Outdoor    | Cooling/Heating         |                                     | 60 / 50   | 100 / 100           | 100 / 100                    | 100 / 100           | 100 / 100                    |
| Exterior dimensions                 | Indoor     | HeightxWidthxDepth      | mm                                  | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950                         |                     |                              |                     |                              |
|                                     | Outdoor    |                         |                                     | 750 x 880(+88) x 340  | 1,300 x 970 x 370   |                              |                     |                              |
| Net weight                          | Indoor     |                         | kg                                  | 24(Unit:19 Standard Panel:5)  |                     | 26(Unit:21 Standard Panel:5) |                     | 24(Unit:19 Standard Panel:5) |
|                                     | Outdoor    |                         |                                     | 60  | 105                 |                              |                     |                              |
| Ref.piping size                     | Liquid/Gas |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")  |                     |                              |                     |                              |
| Refrigerant line (one way) length   |            | m                       |                                     | Max. 50   | Max. 100            |                              |                     |                              |
| Vertical height differences         |            | Outdoor is higher/lower | m                                   | Max.30 / Max.15   |                     |                              |                     |                              |
| Outdoor operating temperature range | Cooling    |                         | °CDB                                | -15~43*2  |                     |                              |                     |                              |
|                                     | Heating    |                         | °CWB                                | -20~20  |                     |                              |                     |                              |
| Panel                               |            |                         |                                     | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                     |                              |                     |                              |
| Air filter, Q'ty                    |            |                         |                                     | Pocket plastic net x 1(Washable)                                    |                     |                              |                     |                              |
| Remote control (option)             |            |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                     |                              |                     |                              |

The values are for simultaneous Multi operation.

| R410A                               |                 |                         | HyperInverter   |                                       |                     |                              |
|-------------------------------------|-----------------|-------------------------|---|---------------------------------------|---------------------|------------------------------|
| Set model name                      |                 |                         | FDT100VSXPVH  | FDT125VSXPVH                          | FDT140VSXPVH        | FDT140VSXTVH                 |
|                                     |                 |                         | Twin  |                                       |                     | Triple                       |
| Indoor unit                         |                 |                         | FDT50VH x 2   | FDT60VH x 2                           | FDT71VH x 2         | FDT50VH x 3                  |
| Outdoor unit                        |                 |                         | FDC100VSX   | FDC125VSX                             | FDC140VSX           | FDC140VSX                    |
| Power source                        |                 |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |                                       |                     |                              |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 )                   | 14.0 ( 5.0 ~ 16.0 ) | 14.0 ( 5.0 ~ 16.0 )          |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 11.2 ( 4.0 ~ 16.0 )   | 14.0 ( 4.0 ~ 18.0 )                   | 16.0 ( 4.0 ~ 20.0 ) | 16.0 ( 4.0 ~ 20.0 )          |
| Power consumption                   | Cooling/Heating | kW                      | 2.56 / 2.67   | 3.26 / 3.22                           | 3.88 / 3.74         | 3.93 / 4.00                  |
| EER/COP                             | Cooling/Heating |                         | 3.91 / 4.19   | 3.83 / 4.35                           | 3.61 / 4.28         | 3.56 / 4.00                  |
| Inrush current                      |                 | A                       | 5   | 5                                     | 5                   | 5                            |
| Max. current                        |                 |                         | 15  | 15                                    | 15                  | 15                           |
| Sound power level*1                 | Indoor*3        | Cooling/Heating         | 55 / 56   | 58 / 59                               | 59 / 60             | 55 / 56                      |
|                                     | Outdoor         | Cooling/Heating         | 70 / 70   | 70 / 70                               | 72 / 72             | 72 / 72                      |
| Sound pressure level*1              | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | 41 / 33 / 30 / 26   | 44 / 34 / 30 / 27                     | 46 / 34 / 31 / 26   | 41 / 33 / 30 / 26            |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 42 / 33 / 28 / 20   | 44 / 34 / 30 / 23                     | 46 / 34 / 31 / 26   | 42 / 33 / 28 / 20            |
| Air flow                            | Outdoor         | Cooling/Heating         | 48 / 50   | 48 / 50                               | 49 / 52             | 49 / 52                      |
|                                     | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11                     | 28 / 18 / 15 / 12   | 22 / 16 / 13 / 10            |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11                     | 28 / 18 / 15 / 12   | 22 / 16 / 13 / 10            |
|                                     | Outdoor         | Cooling/Heating         | 100 / 100   | 100 / 100                             | 100 / 100           | 100 / 100                    |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | mm  | Unit: 236 x 840 Panel: 35 x 950 x 950 |                     |                              |
|                                     | Outdoor         |                         |   | 1,300 x 970 x 370                     |                     |                              |
| Net weight                          | Indoor          |                         | kg  | 24(Unit:19 Standard Panel:5)          |                     | 24(Unit:19 Standard Panel:5) |
|                                     | Outdoor         |                         |   | 105                                   |                     |                              |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 9.52(3/8") / 15.88(5/8")  |                                       |                     |                              |
| Refrigerant line (one way) length   |                 | m                       | Max.100   |                                       |                     |                              |
| Vertical height differences         |                 | Outdoor is higher/lower | Max.30 / Max.15   |                                       |                     |                              |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~43*2  |                                       |                     |                              |
|                                     | Heating         | °CWB                    | -20~20  |                                       |                     |                              |
| Panel                               |                 |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                                       |                     |                              |
| Air filter, Q'ty                    |                 |                         | Pocket plastic net x 1(Washable)                                    |                                       |                     |                              |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-T-5BW-E2, RCN-T-5BB-E2 |                                       |                     |                              |

## SPECIFICATIONS -FDT-

| R32                                 |         |                         | Micro Inverter  |                     |                     |
|-------------------------------------|---------|-------------------------|---|---------------------|---------------------|
| Set model name                      |         |                         | FDT100VNAWVH  | FDT125VNAWVH        | FDT140VNAWVH        |
| Indoor unit                         |         |                         | FDT100VH  | FDT125VH            | FDT140VH            |
| Outdoor unit                        |         |                         | FDC100VNA-W   | FDC125VNA-W         | FDC140VNA-W         |
| Power source                        |         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                                 |                     |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 4.0 ~ 12.5 )   | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   |         |                         | 2.73 / 2.54   | 4.05 / 3.59         | 4.79 / 4.18         |
| EER/COP                             |         |                         | 3.66 / 4.41   | 3.09 / 3.90         | 2.84 / 3.71         |
| Inrush current                      |         |                         | 5   | 5                   | 5                   |
| Max. current                        |         |                         | 24  | 24                  | 24                  |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 62 / 62   | 63 / 64             | 63 / 64             |
|                                     | Outdoor | Cooling/Heating         | 69 / 70   | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 30   | 48 / 41 / 39 / 31   | 48 / 42 / 39 / 32   |
|                                     | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 29   | 48 / 41 / 38 / 31   | 48 / 41 / 38 / 31   |
|                                     | Outdoor | Cooling/Heating         | 54 / 55   | 54 / 56             | 56 / 58             |
|                                     | Outdoor | Cooling (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
| Air flow                            | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
|                                     | Outdoor | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950                         |                     |                     |
|                                     | Outdoor |                         | 845 x 970 x 370   |                     |                     |
| Net weight                          | Indoor  |                         | 30(Unit:25 Standard Panel:5)  |                     |                     |
|                                     | Outdoor |                         | 77  |                     |                     |
| Ref.piping size                     |         |                         | 9.52(3/8") / 15.88(5/8")  |                     |                     |
| Refrigerant line (one way) length   |         |                         | Max.50  |                     |                     |
| Vertical height differences         |         |                         | Max.50 / Max.15   |                     |                     |
| Outdoor operating temperature range | Cooling | °CDB                    | -15~50*2  |                     |                     |
|                                     | Heating | °CWB                    | -20~20  |                     |                     |
| Panel                               |         |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                     |                     |
| Air filter, Q'ty                    |         |                         | Pocket plastic net x 1(Washable)                                    |                     |                     |
| Remote control (option)             |         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                     |                     |

| R32                                 |         |                         | Micro Inverter  |                     |                     |
|-------------------------------------|---------|-------------------------|---|---------------------|---------------------|
| Set model name                      |         |                         | FDT100VSAWVH  | FDT125VSAWVH        | FDT140VSAWVH        |
| Indoor unit                         |         |                         | FDT100VH  | FDT125VH            | FDT140VH            |
| Outdoor unit                        |         |                         | FDC100VSA-W   | FDC125VSA-W         | FDC140VSA-W         |
| Power source                        |         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |                     |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 4.0 ~ 12.5 )   | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   |         |                         | 2.73 / 2.54   | 4.05 / 3.59         | 4.79 / 4.18         |
| EER/COP                             |         |                         | 3.66 / 4.41   | 3.09 / 3.90         | 2.84 / 3.71         |
| Inrush current                      |         |                         | 5   | 5                   | 5                   |
| Max. current                        |         |                         | 15  | 15                  | 15                  |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 62 / 62   | 63 / 64             | 63 / 64             |
|                                     | Outdoor | Cooling/Heating         | 69 / 70   | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 30   | 48 / 41 / 39 / 31   | 48 / 42 / 39 / 32   |
|                                     | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 29   | 48 / 41 / 38 / 31   | 48 / 41 / 38 / 31   |
|                                     | Outdoor | Cooling/Heating         | 54 / 55   | 54 / 56             | 56 / 58             |
|                                     | Outdoor | Cooling (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
| Air flow                            | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
|                                     | Outdoor | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950                         |                     |                     |
|                                     | Outdoor |                         | 845 x 970 x 370   |                     |                     |
| Net weight                          | Indoor  |                         | 30(Unit:25 Standard Panel:5)  |                     |                     |
|                                     | Outdoor |                         | 78  |                     |                     |
| Ref.piping size                     |         |                         | 9.52(3/8") / 15.88(5/8")  |                     |                     |
| Refrigerant line (one way) length   |         |                         | Max.50  |                     |                     |
| Vertical height differences         |         |                         | Max.50 / Max.15   |                     |                     |
| Outdoor operating temperature range | Cooling | °CDB                    | -15~50*2  |                     |                     |
|                                     | Heating | °CWB                    | -20~20  |                     |                     |
| Panel                               |         |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                     |                     |
| Air filter, Q'ty                    |         |                         | Pocket plastic net x 1(Washable)                                    |                     |                     |
| Remote control (option)             |         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                     |                     |

### NOTES:

The data are measured under the following conditions(ISO-T1, -H1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)



The values are for simultaneous Multi operation.

FDT | Indoor Unit

| R32                                 |                 |                         | Micro Inverter  |   |                     |                              |
|-------------------------------------|-----------------|-------------------------|---|---|---------------------|------------------------------|
| Set model name                      |                 |                         | FDT100VNAWPVH   | FDT125VNAWPVH                               | FDT140VNAWPVH       | FDT140VNAWTVH                |
|                                     |                 |                         | Twin  |   | Triple              |                              |
| Indoor unit                         |                 |                         | FDT50VH x 2   | FDT60VH x 2                                 | FDT71VH x 2         | FDT50VH x 3                  |
| Outdoor unit                        |                 |                         | FDC100VNA-W   | FDC125VNA-W                                 | FDC140VNA-W         | FDC140VNA-W                  |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                                 |   |                     |                              |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 )                         | 13.6 ( 5.0 ~ 14.5 ) | 13.6 ( 5.0 ~ 14.5 )          |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 11.2 ( 4.0 ~ 12.5 )   | 14.0 ( 4.0 ~ 16.0 )                         | 15.5 ( 4.0 ~ 16.5 ) | 15.5 ( 4.0 ~ 16.5 )          |
| Power consumption                   | Cooling/Heating | kW                      | 2.82 / 2.73   | 3.79 / 3.31                                 | 4.22 / 3.57         | 4.22 / 3.57                  |
| EER/COP                             | Cooling/Heating |                         | 3.55 / 4.11   | 3.30 / 4.23                                 | 3.22 / 4.34         | 3.22 / 3.88                  |
| Inrush current                      |                 | A                       | 5   | 5   | 5                   | 5                            |
| Max. current                        |                 |                         | 24  | 24  | 24                  | 24                           |
| Sound power level*1                 | Indoor*3        | Cooling/Heating         | dB(A)   | 55 / 56                                     | 58 / 59             | 59 / 60                      |
|                                     | Outdoor         |                         |   | Cooling/Heating                             | 69 / 70             | 71 / 71                      |
| Sound pressure level*1              | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | m³/min  | 41 / 33 / 30 / 26                           | 44 / 34 / 30 / 27   | 46 / 34 / 31 / 26            |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) |   | 42 / 33 / 28 / 20                           | 44 / 34 / 30 / 23   | 46 / 34 / 31 / 26            |
|                                     | Outdoor         | Cooling/Heating         |   | 54 / 55                                     | 54 / 56             | 56 / 58                      |
| Air flow                            | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11                           | 28 / 18 / 15 / 12   |                              |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11                           | 28 / 18 / 15 / 12   |                              |
|                                     | Outdoor         | Cooling/Heating         | 75 / 73   | 75 / 73                                     | 75 / 73             |                              |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | mm  | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 |                     |                              |
|                                     | Outdoor         |                         |   | 845 x 970 x 370                             |                     |                              |
| Net weight                          | Indoor          |                         | kg  | 24(Unit:19 Standard Panel:5)                |                     | 24(Unit:19 Standard Panel:5) |
|                                     | Outdoor         |                         |   | 77  |                     |                              |
| Ref.piping size                     | Liquid/Gas      |                         | ømm   | 9.52(3/8") / 15.88(5/8")                    |                     |                              |
| Refrigerant line (one way) length   |                 |                         | m   | Max.50                                      |                     |                              |
| Vertical height differences         |                 | Outdoor is higher/lower | m   | Max.50 / Max.15                             |                     |                              |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~50*2  |   |                     |                              |
|                                     | Heating         | °CWB                    | -20~20  |   |                     |                              |
| Panel                               |                 |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |   |                     |                              |
| Air filter, Q'ty                    |                 |                         | Pocket plastic net x 1(Washable)                                    |   |                     |                              |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |   |                     |                              |

The values are for simultaneous Multi operation.

| R32                                 |                 |                         | Micro Inverter  |   |                     |                              |
|-------------------------------------|-----------------|-------------------------|---|---|---------------------|------------------------------|
| Set model name                      |                 |                         | FDT100VSAWPVH   | FDT125VSAWPVH                               | FDT140VSAWPVH       | FDT140VSAWTVH                |
|                                     |                 |                         | Twin  |   | Triple              |                              |
| Indoor unit                         |                 |                         | FDT50VH x 2   | FDT60VH x 2                                 | FDT71VH x 2         | FDT50VH x 3                  |
| Outdoor unit                        |                 |                         | FDC100VSA-W   | FDC125VSA-W                                 | FDC140VSA-W         | FDC140VSA-W                  |
| Power source                        |                 |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |   |                     |                              |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 )                         | 13.6 ( 5.0 ~ 14.5 ) | 13.6 ( 5.0 ~ 14.5 )          |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 11.2 ( 4.0 ~ 12.5 )   | 14.0 ( 4.0 ~ 16.0 )                         | 15.5 ( 4.0 ~ 16.5 ) | 15.5 ( 4.0 ~ 16.5 )          |
| Power consumption                   | Cooling/Heating | kW                      | 2.82 / 2.73   | 3.79 / 3.31                                 | 4.22 / 3.57         | 4.22 / 3.57                  |
| EER/COP                             | Cooling/Heating |                         | 3.55 / 4.11   | 3.30 / 4.23                                 | 3.22 / 4.34         | 3.22 / 3.88                  |
| Inrush current                      |                 | A                       | 5   | 5   | 5                   | 5                            |
| Max. current                        |                 |                         | 15  | 15  | 15                  | 15                           |
| Sound power level*1                 | Indoor*3        | Cooling/Heating         | dB(A)   | 55 / 56                                     | 58 / 59             | 59 / 60                      |
|                                     | Outdoor         |                         |   | Cooling/Heating                             | 69 / 70             | 71 / 71                      |
| Sound pressure level*1              | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | m³/min  | 41 / 33 / 30 / 26                           | 44 / 34 / 30 / 27   | 46 / 34 / 31 / 26            |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) |   | 42 / 33 / 28 / 20                           | 44 / 34 / 30 / 23   | 46 / 34 / 31 / 26            |
|                                     | Outdoor         | Cooling/Heating         |   | 54 / 55                                     | 54 / 56             | 56 / 58                      |
| Air flow                            | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11                           | 28 / 18 / 15 / 12   |                              |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11                           | 28 / 18 / 15 / 12   |                              |
|                                     | Outdoor         | Cooling/Heating         | 75 / 73   | 75 / 73                                     | 75 / 73             |                              |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | mm  | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 |                     |                              |
|                                     | Outdoor         |                         |   | 845 x 970 x 370                             |                     |                              |
| Net weight                          | Indoor          |                         | kg  | 24(Unit:19 Standard Panel:5)                |                     | 24(Unit:19 Standard Panel:5) |
|                                     | Outdoor         |                         |   | 78  |                     |                              |
| Ref.piping size                     | Liquid/Gas      |                         | ømm   | 9.52(3/8") / 15.88(5/8")                    |                     |                              |
| Refrigerant line (one way) length   |                 |                         | m   | Max.50                                      |                     |                              |
| Vertical height differences         |                 | Outdoor is higher/lower | m   | Max.50 / Max.15                             |                     |                              |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~50**2   |   |                     |                              |
|                                     | Heating         | °CWB                    | -20~20  |   |                     |                              |
| Panel                               |                 |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |   |                     |                              |
| Air filter, Q'ty                    |                 |                         | Pocket plastic net x 1(Washable)                                    |   |                     |                              |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |   |                     |                              |

## SPECIFICATIONS -FDT-

The values are for simultaneous Multi operation.

| R32                                 |                      |                         | Micro Inverter  |                     |                     |
|-------------------------------------|----------------------|-------------------------|---|---------------------|---------------------|
| Set model name                      |                      |                         | FDT200VSAWPVH   | FDT250VSAWPVH       | FDT280VSAWPVH       |
|                                     |                      |                         | Twin  |                     |                     |
| Indoor unit                         |                      |                         | FDT100VH x 2  | FDT125VH x 2        | FDT140VH x 2        |
| Outdoor unit                        |                      |                         | FDC200VSA-W   | FDC250VSA-W         | FDC280VSA-W         |
| Power source                        |                      |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |                     |                     |
| Nominal cooling capacity (Min~Max)  |                      | kW                      | 20.0 ( 6.8 ~ 22.4 )   | 25.0 ( 6.8 ~ 28.0 ) | 27.0 ( 7.5 ~ 31.5 ) |
| Nominal heating capacity (Min~Max)  |                      | kW                      | 22.4 ( 6.6 ~ 25.0 )   | 28.0 ( 5.7 ~ 31.5 ) | 30.0 ( 6.3 ~ 33.5 ) |
| Power consumption                   | Cooling/Heating      | kW                      | 5.48 / 5.27   | 8.20 / 7.37         | 9.11 / 8.95         |
| EER/COP                             | Cooling/Heating      |                         | 3.65 / 4.25   | 3.05 / 3.80         | 2.96 / 3.35         |
| Inrush current                      |                      | A                       | 5   | 5                   | 5                   |
| Max. current                        |                      |                         | 19  | 20                  | 20                  |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup> | Cooling/Heating         | 62 / 62   | 63 / 64             | 63 / 64             |
|                                     | Outdoor              | Cooling/Heating         | 72 / 74   | 73 / 75             | 75 / 77             |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup> | Cooling (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 30   | 48 / 41 / 39 / 31   | 48 / 42 / 39 / 32   |
|                                     |                      | Heating (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 29   | 48 / 41 / 38 / 31   | 48 / 41 / 38 / 31   |
|                                     | Outdoor              | Cooling/Heating         | 58 / 59   | 58 / 62             | 61 / 63             |
| Air flow                            | Indoor* <sup>3</sup> | Cooling (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
|                                     |                      | Heating (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
|                                     | Outdoor              | Cooling/Heating         | 148 / 134   | 148 / 153           | 136 / 140           |
| Exterior dimensions                 | Indoor               | HeightxWidthxDepth      | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950                         |                     |                     |
|                                     | Outdoor              |                         | 1,505 x 970 x 370   |                     |                     |
| Net weight                          | Indoor               |                         | 30(Unit:25 Standard Panel:5)  |                     |                     |
|                                     | Outdoor              |                         | 144   | 145                 | 155                 |
| Ref.piping size                     | Liquid/Gas           | ømm                     | 9.52(3/8") / 22.22(7/8")  |                     |                     |
| Refrigerant line (one way) length   |                      | m                       | Max.70  |                     | Max.60              |
| Vertical height differences         |                      | Outdoor is higher/lower | Max.50* <sup>4</sup> / Max.15                                       |                     |                     |
| Outdoor operating temperature range | Cooling              | °CDB                    | -15~50* <sup>2</sup>  |                     |                     |
|                                     | Heating              | °CWB                    | -20~20  |                     |                     |
| Panel                               |                      |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                     |                     |
| Air filter, Q'ty                    |                      |                         | Pocket plastic net x 1(Washable)                                    |                     |                     |
| Remote control (option)             |                      |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                     |                     |

The values are for simultaneous Multi operation.

| R32                                 |                 |                         |                                     | Micro Inverter  |                              |                              |                   |
|-------------------------------------|-----------------|-------------------------|-------------------------------------|---|------------------------------|------------------------------|-------------------|
| Set model name                      |                 |                         |                                     | FDT200VSAWTVH   | FDT200VSAWDVH                | FDT250VSAWDVH                | FDT280VSAWDVH     |
|                                     |                 |                         |                                     | Triple  |                              | Double Twin                  |                   |
| Indoor unit                         |                 |                         | FDT71VH x 3                         | FDT50VH x 4   | FDT60VH x 4                  | FDT71VH x 4                  |                   |
| Outdoor unit                        |                 |                         | FDC200VSA-W                         | FDC200VSA-W   | FDC250VSA-W                  | FDC280VSA-W                  |                   |
| Power source                        |                 |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz |   |                              |                              |                   |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 20.0 ( 7.6 ~ 22.4 )                 | 20.0 ( 6.8 ~ 22.4 )   | 25.0 ( 5.2 ~ 28.0 )          | 27.0 ( 7.5 ~ 31.5 )          |                   |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 22.4 ( 6.6 ~ 25.0 )                 | 22.4 ( 6.6 ~ 25.0 )   | 28.0 ( 7.2 ~ 31.5 )          | 30.0 ( 6.3 ~ 33.5 )          |                   |
| Power consumption                   | Cooling/Heating | kW                      | 5.56 / 5.27                         | 5.78 / 5.80   | 7.30 / 6.80                  | 7.77 / 8.60                  |                   |
| EER/COP                             | Cooling/Heating |                         | 3.60 / 4.25                         | 3.46 / 3.86   | 3.42 / 4.12                  | 3.47 / 3.49                  |                   |
| Inrush current                      |                 | A                       | 5                                   | 5   | 5                            | 5                            |                   |
| Max. current                        |                 |                         | 19                                  | 19  | 20                           | 20                           |                   |
| Sound power level*1                 | Indoor*3        | Cooling/Heating         | 59 / 60                             | 55 / 56   | 58 / 59                      | 59 / 60                      |                   |
|                                     | Outdoor         |                         |                                     |   |                              |                              | Cooling/Heating   |
| Sound pressure level*1              | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | dB(A)                               | 46 / 34 / 31 / 26   | 41 / 33 / 30 / 26            | 44 / 34 / 30 / 27            | 46 / 34 / 31 / 26 |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) |                                     | 46 / 34 / 31 / 26   | 42 / 33 / 28 / 20            | 44 / 34 / 30 / 23            | 46 / 34 / 31 / 26 |
|                                     | Outdoor         | Cooling/Heating         | 58 / 59                             | 58 / 59   | 58 / 62                      | 61 / 63                      |                   |
| Air flow                            | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | m³/min                              | 28 / 18 / 15 / 12   | 22 / 16 / 13 / 10            | 26 / 17 / 14 / 11            | 28 / 18 / 15 / 12 |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) |                                     | 28 / 18 / 15 / 12   | 22 / 16 / 13 / 10            | 26 / 17 / 14 / 11            | 28 / 18 / 15 / 12 |
|                                     | Outdoor         | Cooling/Heating         |                                     | 148 / 134   | 148 / 134                    | 148 / 153                    | 136 / 140         |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | mm                                  | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950                         |                              |                              |                   |
|                                     | Outdoor         |                         |                                     | 1,505 x 970 x 370   |                              |                              |                   |
| Net weight                          | Indoor          |                         | kg                                  | 26(Unit:21 Standard Panel:5)  | 24(Unit:19 Standard Panel:5) | 26(Unit:21 Standard Panel:5) |                   |
|                                     | Outdoor         |                         |                                     | 144   |                              | 145                          | 155               |
| Ref.piping size                     | Liquid/Gas      |                         | ømm                                 | 9.52(3/8") / 22.22(7/8")  |                              | 12.7(1/2") / 22.22(7/8")     |                   |
| Refrigerant line (one way) length   |                 |                         | m                                   | Max.70  |                              |                              | Max.60            |
| Vertical height differences         |                 | Outdoor is higher/lower | m                                   | Max.50* <sup>4</sup> / Max.15                                       |                              |                              |                   |
| Outdoor operating temperature range | Cooling         |                         | °CDB                                | -15~50* <sup>2</sup>  |                              |                              |                   |
|                                     | Heating         |                         | °CWB                                | -20~20  |                              |                              |                   |
| Panel                               |                 |                         |                                     | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                              |                              |                   |
| Air filter, Q'ty                    |                 |                         |                                     | Pocket plastic net x 1(Washable)                                    |                              |                              |                   |
| Remote control (option)             |                 |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                              |                              |                   |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / , R410A:ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

| R410A                               |                         |                         | Micro Inverter  |                     |                     |
|-------------------------------------|-------------------------|-------------------------|---|---------------------|---------------------|
| Set model name                      |                         |                         | FDT100VNAVH   | FDT125VNAVH         | FDT140VNAVH         |
| Indoor unit                         |                         |                         | FDT100VH  | FDT125VH            | FDT140VH            |
| Outdoor unit                        |                         |                         | FDC100VNA   | FDC125VNA           | FDC140VNA           |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                                 |                     |                     |
| Nominal cooling capacity (Min~Max)  |                         |                         | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |                         |                         | 11.2 ( 4.0 ~ 12.5 )   | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   |                         |                         | 2.73 / 2.64   | 4.05 / 3.74         | 5.09 / 4.43         |
| EER/COP                             |                         |                         | 3.26 / 4.26   | 3.09 / 3.74         | 2.67 / 3.50         |
| Inrush current                      |                         |                         | 5   | 5                   | 5                   |
| Max. current                        |                         |                         | 24  | 24                  | 24                  |
| Sound power level*1                 | Indoor                  | Cooling/Heating         | 62 / 62   | 63 / 64             | 63 / 64             |
|                                     | Outdoor                 | Cooling/Heating         | 70 / 70   | 71 / 71             | 73 / 73             |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 30   | 48 / 41 / 39 / 31   | 48 / 42 / 39 / 32   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 29   | 48 / 41 / 38 / 31   | 48 / 41 / 38 / 31   |
|                                     | Outdoor                 | Cooling/Heating         | 54 / 56   | 55 / 57             | 57 / 59             |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
| Air flow                            | Indoor                  | Heating (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
|                                     | Outdoor                 | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950                         |                     |                     |
|                                     | Outdoor                 |                         | 845 x 970 x 370   |                     |                     |
| Net weight                          | Indoor                  |                         | 30(Unit:25 Standard Panel:5)  |                     |                     |
|                                     | Outdoor                 |                         | 80  |                     |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")  |                     |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.50  |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.50 / Max.15   |                     |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50*2  |                     |                     |
|                                     | Heating                 | °CWB                    | -20~20  |                     |                     |
| Panel                               |                         |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                     |                     |
| Air filter, Q'ty                    |                         |                         | Pocket plastic net x 1(Washable)                                    |                     |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                     |                     |

| R410A                               |                         |                         | Micro Inverter  |                     |                     |
|-------------------------------------|-------------------------|-------------------------|---|---------------------|---------------------|
| Set model name                      |                         |                         | FDT100VSAVH   | FDT125VSAVH         | FDT140VSAVH         |
| Indoor unit                         |                         |                         | FDT100VH  | FDT125VH            | FDT140VH            |
| Outdoor unit                        |                         |                         | FDC100VSA   | FDC125VSA           | FDC140VSA           |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |                     |                     |
| Nominal cooling capacity (Min~Max)  |                         |                         | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |                         |                         | 11.2 ( 4.0 ~ 12.5 )   | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   |                         |                         | 2.73 / 2.63   | 4.05 / 3.74         | 5.09 / 4.43         |
| EER/COP                             |                         |                         | 3.66 / 4.26   | 3.09 / 3.74         | 2.67 / 3.50         |
| Inrush current                      |                         |                         | 5   | 5                   | 5                   |
| Max. current                        |                         |                         | 15  | 15                  | 15                  |
| Sound power level*1                 | Indoor                  | Cooling/Heating         | 62 / 62   | 63 / 64             | 63 / 64             |
|                                     | Outdoor                 | Cooling/Heating         | 70 / 70   | 71 / 71             | 73 / 73             |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 30   | 48 / 41 / 39 / 31   | 48 / 42 / 39 / 32   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 29   | 48 / 41 / 38 / 31   | 48 / 41 / 38 / 31   |
|                                     | Outdoor                 | Cooling/Heating         | 54 / 56   | 55 / 57             | 57 / 59             |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
| Air flow                            | Indoor                  | Heating (P-Hi/Hi/Me/Lo) | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18   | 38 / 29 / 26 / 19   |
|                                     | Outdoor                 | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950                         |                     |                     |
|                                     | Outdoor                 |                         | 845 x 970 x 370   |                     |                     |
| Net weight                          | Indoor                  |                         | 30(Unit:25 Standard Panel:5)  |                     |                     |
|                                     | Outdoor                 |                         | 82  |                     |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")  |                     |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.50  |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.50 / Max.15   |                     |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50*2  |                     |                     |
|                                     | Heating                 | °CWB                    | -20~20  |                     |                     |
| Panel                               |                         |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                     |                     |
| Air filter, Q'ty                    |                         |                         | Pocket plastic net x 1(Washable)                                    |                     |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                     |                     |



## SPECIFICATIONS -FDT-

The values are for simultaneous Multi operation.

| R410A                               |                      |                         |   | Micro Inverter                              |                              |                              |              |
|-------------------------------------|----------------------|-------------------------|---|---|------------------------------|------------------------------|--------------|
| Set model name                      |                      |                         |   | FDT100VNAPVH                                | FDT125VNAPVH                 | FDT140VNAPVH                 | FDT140VNATVH |
|                                     |                      |                         |   | Twin  |                              | Triple                       |              |
| Indoor unit                         |                      |                         | FDT50VH x 2   | FDT60VH x 2                                 | FDT71VH x 2                  | FDT50VH x 3                  |              |
| Outdoor unit                        |                      |                         | FDC100VNA   | FDC125VNA                                   | FDC140VNA                    | FDC140VNA                    |              |
| Power source                        |                      |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                                 |   |                              |                              |              |
| Nominal cooling capacity (Min~Max)  |                      | kW                      | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 )                         | 13.6 ( 5.0 ~ 14.5 )          | 13.6 ( 5.0 ~ 14.5 )          |              |
| Nominal heating capacity (Min~Max)  |                      | kW                      | 11.2 ( 4.0 ~ 12.5 )   | 14.0 ( 4.0 ~ 16.0 )                         | 15.5 ( 4.0 ~ 16.5 )          | 15.5 ( 4.0 ~ 16.5 )          |              |
| Power consumption                   | Cooling/Heating      | kW                      | 2.82 / 2.90   | 3.79 / 3.31                                 | 4.22 / 3.72                  | 4.22 / 3.29                  |              |
| EER/COP                             | Cooling/Heating      |                         | 3.55 / 3.86   | 3.30 / 4.23                                 | 3.22 / 4.17                  | 3.22 / 4.71                  |              |
| Inrush current                      |                      | A                       | 5   | 5   | 5                            | 5                            |              |
| Max. current                        |                      |                         | 24  | 24  | 24                           | 24                           |              |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup> | Cooling/Heating         | 55 / 56   | 58 / 59                                     | 59 / 60                      | 55 / 56                      |              |
|                                     | Outdoor              | Cooling/Heating         | 70 / 70   | 71 / 71                                     | 73 / 73                      | 73 / 73                      |              |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup> | Cooling (P-Hi/Hi/Me/Lo) | 41 / 33 / 30 / 26   | 44 / 34 / 30 / 27                           | 46 / 34 / 31 / 26            | 41 / 33 / 30 / 26            |              |
|                                     |                      | Heating (P-Hi/Hi/Me/Lo) | 42 / 33 / 28 / 20   | 44 / 34 / 30 / 23                           | 46 / 34 / 31 / 26            | 42 / 33 / 28 / 20            |              |
| Air flow                            | Outdoor              | Cooling/Heating         | 54 / 56   | 55 / 57                                     | 57 / 59                      | 57 / 59                      |              |
|                                     |                      | Cooling (P-Hi/Hi/Me/Lo) | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11                           | 28 / 18 / 15 / 12            | 22 / 16 / 13 / 10            |              |
|                                     | Indoor* <sup>3</sup> | Heating (P-Hi/Hi/Me/Lo) | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11                           | 28 / 18 / 15 / 12            | 22 / 16 / 13 / 10            |              |
|                                     |                      | Outdoor                 | Cooling/Heating   | 75 / 73                                     | 75 / 73                      | 75 / 73                      | 75 / 73      |
| Exterior dimensions                 | Indoor               | HeightxWidthxDepth      | mm  | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 |                              |                              |              |
|                                     | Outdoor              |                         |   | 845 x 970 x 370                             |                              |                              |              |
| Net weight                          | Indoor               |                         | kg  | 24(Unit:19 Standard Panel:5)                | 26(Unit:21 Standard Panel:5) | 24(Unit:19 Standard Panel:5) |              |
|                                     | Outdoor              |                         |   | 80  |                              |                              |              |
| Ref.piping size                     | Liquid/Gas           |                         | ømm   | 9.52(3/8") / 15.88(5/8")                    |                              |                              |              |
| Refrigerant line (one way) length   |                      |                         | m   | Max.50                                      |                              |                              |              |
| Vertical height differences         |                      | Outdoor is higher/lower | m   | Max.50 / Max.15                             |                              |                              |              |
| Outdoor operating temperature range | Cooling              | °CDB                    | -15~50* <sup>2</sup>  |   |                              |                              |              |
|                                     | Heating              | °CWB                    | -20~20  |   |                              |                              |              |
| Panel                               |                      |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |   |                              |                              |              |
| Air filter, Q'ty                    |                      |                         | Pocket plastic net x 1(Washable)                                    |   |                              |                              |              |
| Remote control (option)             |                      |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |   |                              |                              |              |

The values are for simultaneous Multi operation.

| R410A                               |                      |                         |   | Micro Inverter                              |                              |                              |              |
|-------------------------------------|----------------------|-------------------------|---|---|------------------------------|------------------------------|--------------|
| Set model name                      |                      |                         |   | FDT100VSAPVH                                | FDT125VSAPVH                 | FDT140VSAPVH                 | FDT140VSATVH |
|                                     |                      |                         |   | Twin  |                              | Triple                       |              |
| Indoor unit                         |                      |                         | FDT50VH x 2   | FDT60VH x 2                                 | FDT71VH x 2                  | FDT50VH x 3                  |              |
| Outdoor unit                        |                      |                         | FDC100VSA   | FDC125VSA                                   | FDC140VSA                    | FDC140VSA                    |              |
| Power source                        |                      |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |   |                              |                              |              |
| Nominal cooling capacity (Min~Max)  |                      | kW                      | 10.0 ( 4.0 ~ 11.2 )   | 12.5 ( 5.0 ~ 14.0 )                         | 13.6 ( 5.0 ~ 14.5 )          | 13.6 ( 5.0 ~ 14.5 )          |              |
| Nominal heating capacity (Min~Max)  |                      | kW                      | 11.2 ( 4.0 ~ 12.5 )   | 14.0 ( 4.0 ~ 16.0 )                         | 15.5 ( 4.0 ~ 16.5 )          | 15.5 ( 4.0 ~ 16.5 )          |              |
| Power consumption                   | Cooling/Heating      | kW                      | 2.82 / 2.90   | 3.79 / 3.31                                 | 4.22 / 3.72                  | 4.22 / 3.29                  |              |
| EER/COP                             | Cooling/Heating      |                         | 3.55 / 3.86   | 3.30 / 4.23                                 | 3.22 / 4.17                  | 3.22 / 4.71                  |              |
| Inrush current                      |                      | A                       | 5   | 5   | 5                            | 5                            |              |
| Max. current                        |                      |                         | 15  | 15  | 15                           | 15                           |              |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup> | Cooling/Heating         | 55 / 56   | 58 / 59                                     | 59 / 60                      | 55 / 56                      |              |
|                                     | Outdoor              | Cooling/Heating         | 70 / 70   | 71 / 71                                     | 73 / 73                      | 73 / 73                      |              |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup> | Cooling (P-Hi/Hi/Me/Lo) | 41 / 33 / 30 / 26   | 44 / 34 / 30 / 27                           | 46 / 34 / 31 / 26            | 41 / 33 / 30 / 26            |              |
|                                     |                      | Heating (P-Hi/Hi/Me/Lo) | 42 / 33 / 28 / 20   | 44 / 34 / 30 / 23                           | 46 / 34 / 31 / 26            | 42 / 33 / 28 / 20            |              |
| Air flow                            | Outdoor              | Cooling/Heating         | 54 / 56   | 55 / 57                                     | 57 / 59                      | 57 / 59                      |              |
|                                     |                      |                         |   |   |                              |                              |              |
|                                     | Indoor* <sup>3</sup> | Cooling (P-Hi/Hi/Me/Lo) | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11                           | 28 / 18 / 15 / 12            | 22 / 16 / 13 / 10            |              |
|                                     |                      | Heating (P-Hi/Hi/Me/Lo) | 22 / 16 / 13 / 10   | 26 / 17 / 14 / 11                           | 28 / 18 / 15 / 12            | 22 / 16 / 13 / 10            |              |
|                                     | Outdoor              | Cooling/Heating         | 75 / 73   | 75 / 73                                     | 75 / 73                      | 75 / 73                      |              |
| Exterior dimensions                 | Indoor               | HeightxWidthxDepth      | mm  | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 |                              |                              |              |
|                                     | Outdoor              |                         |   | 845 x 970 x 370                             |                              |                              |              |
| Net weight                          | Indoor               |                         | kg  | 24(Unit:19 Standard Panel:5)                | 26(Unit:21 Standard Panel:5) | 24(Unit:19 Standard Panel:5) |              |
|                                     | Outdoor              |                         |   | 82  |                              |                              |              |
| Ref.piping size                     | Liquid/Gas           |                         | ømm   | 9.52(3/8") / 15.88(5/8")                    |                              |                              |              |
| Refrigerant line (one way) length   |                      |                         | m   | Max.50                                      |                              |                              |              |
| Vertical height differences         |                      | Outdoor is higher/lower | m   | Max.50 / Max.15                             |                              |                              |              |
| Outdoor operating temperature range | Cooling              | °CDB                    | -15~50* <sup>2</sup>  |   |                              |                              |              |
|                                     | Heating              | °CWB                    | -20~20  |   |                              |                              |              |
| Panel                               |                      |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |   |                              |                              |              |
| Air filter, Q'ty                    |                      |                         | Pocket plastic net x 1(Washable)                                    |   |                              |                              |              |
| Remote control (option)             |                      |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |   |                              |                              |              |

### NOTES:

The data are measured under the following conditions(R410A : ISO-T1 ).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

FDT | Indoor Unit

| R410A                               |                         |                         | Micro Inverter  |                          |
|-------------------------------------|-------------------------|-------------------------|---|--------------------------|
| Set model name                      |                         |                         | FDT200VSAPVH  | FDT250VSAPVH             |
|                                     |                         |                         | Twin  |                          |
| Indoor unit                         |                         |                         | FDT100VH x 2  | FDT125VH x 2             |
| Outdoor unit                        |                         |                         | FDC200VSA   | FDC250VSA                |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |                          |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 19.0 ( 5.2 ~ 22.4 )   | 24.0 ( 6.9 ~ 28.0 )      |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 22.4 ( 3.3 ~ 25.0 )   | 27.0 ( 5.5 ~ 31.5 )      |
| Power consumption                   | Cooling/Heating         | kW                      | 6.25 / 6.02   | 8.36 / 7.15              |
| EER/COP                             | Cooling/Heating         |                         | 3.04 / 3.72   | 2.87 / 3.78              |
| Inrush current                      |                         | A                       | 5   | 5                        |
| Max. current                        |                         |                         | 20  | 21                       |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup>    | Cooling/Heating         | 62 / 62   | 63 / 64                  |
|                                     | Outdoor                 |                         | 72 / 74   | 73 / 75                  |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup>    | Cooling (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 30   | 48 / 41 / 39 / 31        |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 47 / 39 / 36 / 29   | 48 / 41 / 38 / 31        |
| Air flow                            | Indoor* <sup>3</sup>    | Cooling/Heating         | 58 / 59   | 59 / 62                  |
|                                     | Outdoor                 | Cooling/Heating         | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18        |
|                                     |                         |                         | 37 / 26 / 23 / 17   | 38 / 28 / 25 / 18        |
|                                     |                         |                         | 135 / 135   | 143 / 151                |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950                         |                          |
|                                     | Outdoor                 |                         | 1,300 x 970 x 370   | 1,505 x 970 x 370        |
| Net weight                          | Indoor                  |                         | 30(Unit:25 Standard Panel:5)  |                          |
|                                     | Outdoor                 |                         | 115   | 143                      |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 22.22(7/8")  | 12.7(1/2") / 22.22(7/8") |
| Refrigerant line (one way) length   |                         | m                       | Max.70  |                          |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.30 / Max.15   |                          |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50* <sup>2</sup>  |                          |
|                                     | Heating                 | °CWB                    | -15~20  |                          |
| Panel                               |                         |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                          |
| Air filter, Q'ty                    |                         |                         | Pocket plastic net x 1(Washable)                                    |                          |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                          |

The values are for simultaneous Multi operation.

| R410A                               |                         |                         | Micro Inverter  |                              |                              |
|-------------------------------------|-------------------------|-------------------------|---|------------------------------|------------------------------|
| Set model name                      |                         |                         | FDT200VSATVH  | FDT200VSADVH                 | FDT250VSADVH                 |
|                                     |                         |                         | Triple  | Double Twin                  |                              |
| Indoor unit                         |                         |                         | FDT71VH x 3   | FDT50VH x 4                  | FDT60VH x 4                  |
| Outdoor unit                        |                         |                         | FDC200VSA   | FDC200VSA                    | FDC250VSA                    |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                                 |                              |                              |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 19.0 ( 5.2 ~ 22.4 )   | 19.0 ( 5.2 ~ 22.4 )          | 24.0 ( 6.9 ~ 28.0 )          |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 22.4 ( 3.3 ~ 25.0 )   | 22.4 ( 3.3 ~ 25.0 )          | 27.0 ( 5.5 ~ 31.5 )          |
| Power consumption                   | Cooling/Heating         | kW                      | 6.01 / 5.76   | 6.26 / 6.15                  | 7.43 / 6.83                  |
| EER/COP                             | Cooling/Heating         |                         | 3.16 / 3.89   | 3.04 / 3.64                  | 3.23 / 3.95                  |
| Inrush current                      |                         | A                       | 5   | 5                            | 5                            |
| Max. current                        |                         |                         | 20  | 20                           | 21                           |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup>    | Cooling/Heating         | 59 / 60   | 55 / 56                      | 58 / 59                      |
|                                     | Outdoor                 |                         | 72 / 74   | 72 / 74                      | 73 / 75                      |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup>    | Cooling (P-Hi/Hi/Me/Lo) | 46 / 34 / 31 / 26   | 41 / 33 / 30 / 26            | 44 / 34 / 30 / 27            |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 46 / 34 / 31 / 26   | 42 / 33 / 28 / 20            | 44 / 34 / 30 / 23            |
| Air flow                            | Indoor* <sup>3</sup>    | Cooling/Heating         | 58 / 59   | 58 / 59                      | 59 / 62                      |
|                                     | Outdoor                 | Cooling/Heating         | 28 / 18 / 15 / 12   | 22 / 16 / 13 / 10            | 26 / 17 / 14 / 11            |
|                                     |                         |                         | 28 / 18 / 15 / 12   | 22 / 16 / 13 / 10            | 26 / 17 / 14 / 11            |
|                                     |                         |                         | 135 / 135   | 135 / 135                    | 143 / 151                    |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950                         |                              |                              |
|                                     | Outdoor                 |                         | 1,300 x 970 x 370   |                              | 1,505 x 970 x 370            |
| Net weight                          | Indoor                  |                         | 26(Unit:21 Standard Panel:5)  | 24(Unit:19 Standard Panel:5) | 26(Unit:21 Standard Panel:5) |
|                                     | Outdoor                 |                         | 115   |                              | 143                          |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 22.22(7/8")  |                              | 12.7(1/2") / 22.22(7/8")     |
| Refrigerant line (one way) length   |                         | m                       | Max.70  |                              |                              |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.30 / Max.15   |                              |                              |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50* <sup>2</sup>  |                              |                              |
|                                     | Heating                 | °CWB                    | -15~20  |                              |                              |
| Panel                               |                         |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |                              |                              |
| Air filter, Q'ty                    |                         |                         | Pocket plastic net x 1(Washable)                                    |                              |                              |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |                              |                              |

## SPECIFICATIONS -FDT-

| R32                                 |                 |                         | Standard Inverter   |   |                          |                              |
|-------------------------------------|-----------------|-------------------------|---|---|--------------------------|------------------------------|
| Set model name                      |                 |                         | FDT71VNPVH  | FDT90VNPVH                                  | FDT100VNPVH              | FDT125VNPVH                  |
| Indoor unit                         |                 |                         | FDT71VH   | FDT100VH                                    | FDT100VH                 | FDT125VH                     |
| Outdoor unit                        |                 |                         | FDC71VNP-W  | FDC90VNP-W                                  | FDC100VNP-W              | FDC125VNP-W                  |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                                 |   |                          |                              |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 7.1 ( 1.5 ~ 7.3 )   | 9.0 ( 2.1 ~ 9.5 )                           | 10.0 ( 2.1 ~ 10.2 )      | 12.1 ( 5.0 ~ 12.1 )          |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 7.1 ( 1.1 ~ 7.3 )   | 9.0 ( 1.7 ~ 9.5 )                           | 10.0 ( 1.7 ~ 10.4 )      | 12.1 ( 4.0 ~ 13.3 )          |
| Power consumption                   |                 | kW                      | 2.31 / 1.73   | 2.48 / 1.90                                 | 2.84 / 2.33              | 3.69 / 3.20                  |
| EER/COP                             | Cooling/Heating |                         | 3.07 / 4.10   | 3.63 / 4.74                                 | 3.52 / 4.29              | 3.28 / 3.78                  |
| Inrush current                      |                 | A                       | 5   | 5   | 5                        | 5                            |
| Max. current                        |                 |                         | 15.8  | 19  | 19                       | 18                           |
| Sound power level*1                 | Indoor          | Cooling/Heating         | 59 / 60   | 62 / 62                                     | 62 / 62                  | 63 / 64                      |
|                                     | Outdoor         | Cooling/Heating         | 67 / 67   | 67 / 66                                     | 68 / 67                  | 73 / 72                      |
| Sound pressure level*1              | Indoor          | Cooling (P-Hi/Hi/Me/Lo) | 46 / 34 / 31 / 26   | 47 / 39 / 36 / 30                           | 47 / 39 / 36 / 30        | 48 / 41 / 39 / 31            |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 46 / 34 / 31 / 26   | 47 / 39 / 36 / 29                           | 47 / 39 / 36 / 29        | 48 / 41 / 38 / 31            |
|                                     | Outdoor         | Cooling/Heating         | 54 / 54   | 55 / 53                                     | 56 / 54                  | 57 / 57                      |
| Air flow                            | Indoor          | Cooling (P-Hi/Hi/Me/Lo) | 28 / 18 / 15 / 12   | 37 / 26 / 23 / 17                           | 36 / 26 / 23 / 17        | 38 / 28 / 25 / 18            |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 28 / 18 / 15 / 12   | 37 / 26 / 23 / 17                           | 36 / 26 / 23 / 17        | 38 / 28 / 25 / 18            |
|                                     | Outdoor         | Cooling/Heating         | 42 / 42   | 59 / 55                                     | 63 / 55                  | 75 / 79                      |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | mm  | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 |                          |                              |
|                                     | Outdoor         |                         |   | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950 |                          |                              |
| Net weight                          | Indoor          |                         | kg  | 26(Unit:21 Standard Panel:5)                |                          | 30(Unit:25 Standard Panel:5) |
|                                     | Outdoor         |                         |   | 45  | 57                       | 73                           |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 6.35(1/4") / 12.7(1/2")   |   | 6.35(1/4") / 15.88(5/8") | 9.52(3/8") / 15.88(5/8")     |
| Refrigerant line (one way) length   |                 |                         | m   | Max.30                                      |                          |                              |
| Vertical height differences         |                 |                         | Outdoor is higher/lower   | Max.20 / Max.20                             |                          |                              |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~46*2  |   |                          |                              |
|                                     | Heating         | °CWB                    | -15~20  |   |                          |                              |
| Panel                               |                 |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |   |                          |                              |
| Air filter, Q'ty                    |                 |                         | Pocket Plastic net x1(Washable)                                     |   |                          |                              |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |   |                          |                              |

| R410A                               |            |                         |   | Standard Inverter                           |                   |                   |                   |   |                   |  |
|-------------------------------------|------------|-------------------------|---|---|-------------------|-------------------|-------------------|---|-------------------|--|
| Set model name                      |            |                         |   | FDT71VNPVH                                  |                   | FDT90VNP1VH       |                   | FDT100VNP1VH                                |                   |  |
| Indoor unit                         |            |                         |   | FDT71VH                                     |                   | FDT100VH          |                   | FDT100VH                                    |                   |  |
| Outdoor unit                        |            |                         |   | FDC71VNP                                    |                   | FDC90VNP1         |                   | FDC100VNP                                   |                   |  |
| Power source                        |            |                         |   | 1 Phase 220-240V, 50Hz / 220V, 60Hz         |                   |                   |                   |   |                   |  |
| Nominal cooling capacity (Min~Max)  |            |                         | kW  | 7.1 ( 1.4 ~ 7.1 )                           |                   | 9.0 ( 1.9 ~ 9.0 ) |                   | 10.0 ( 2.8 ~ 11.2 )                         |                   |  |
| Nominal heating capacity (Min~Max)  |            |                         | kW  | 7.1 ( 1.0 ~ 7.1 )                           |                   | 9.0 ( 1.5 ~ 9.0 ) |                   | 11.2 ( 2.5 ~ 12.5 )                         |                   |  |
| Power consumption                   |            | Cooling/Heating         | kW  | 2.31 / 1.73                                 |                   | 2.67 / 2.19       |                   | 2.76 / 2.84                                 |                   |  |
| EER/COP                             |            | Cooling/Heating         |   | 3.07 / 4.10                                 |                   | 3.37 / 4.11       |                   | 3.62 / 3.94                                 |                   |  |
| Inrush current                      |            |                         | A   | 5   |                   | 5                 |                   | 5   |                   |  |
| Max. current                        |            |                         |   | 14.5  |                   | 18                |                   | 21  |                   |  |
| Sound power level*1                 | Indoor     | Cooling/Heating         | dB(A)   | 59 / 60                                     |                   | 62 / 62           |                   | 62 / 62                                     |                   |  |
|                                     | Outdoor    | Cooling/Heating         |   | 67 / 67                                     |                   | 69 / 69           |                   | 70 / 70                                     |                   |  |
| Sound pressure level*1              | Indoor     | Cooling (P-Hi/Hi/Me/Lo) |   | m³/min                                      | 46 / 34 / 31 / 26 |                   | 47 / 39 / 36 / 30 |   | 47 / 39 / 36 / 30 |  |
|                                     |            | Heating (P-Hi/Hi/Me/Lo) |   |   | 46 / 34 / 31 / 26 |                   | 47 / 39 / 36 / 29 |   | 47 / 39 / 36 / 29 |  |
| Air flow                            | Outdoor    | Cooling/Heating         |   | 54 / 54                                     |                   | 57 / 55           |                   | 57 / 61                                     |                   |  |
|                                     |            | Cooling (P-Hi/Hi/Me/Lo) |   | 28 / 18 / 15 / 12                           |                   | 37 / 26 / 23 / 17 |                   | 37 / 26 / 23 / 17                           |                   |  |
|                                     | Indoor     | Heating (P-Hi/Hi/Me/Lo) |   | 28 / 18 / 15 / 12                           |                   | 37 / 26 / 23 / 17 |                   | 37 / 26 / 23 / 17                           |                   |  |
|                                     |            | Outdoor                 | Cooling/Heating   |   | 36 / 36           |                   | 63 / 49.5         |   | 75 / 79           |  |
| Exterior dimensions                 | Indoor     | HeightxWidthxDepth      | mm  | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 |                   |                   |                   | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950 |                   |  |
|                                     | Outdoor    |                         |   | 640 x 800(+71) x 290                        |                   |                   |                   | 750 x 880(+88) x 340                        |                   |  |
| Net weight                          | Indoor     |                         | kg  | 26(Unit:21 Standard Panel:5)                |                   |                   |                   | 30(Unit:25 Standard Panel:5)                |                   |  |
|                                     | Outdoor    |                         |   | 45  |                   |                   |                   | 57  |                   |  |
| Ref.piping size                     | Liquid/Gas |                         | ømm   | 6.35(1/4") / 12.7(1/2")                     |                   |                   |                   | 6.35(1/4") / 15.88(5/8")                    |                   |  |
| Refrigerant line (one way) length   |            |                         | m   | Max.30                                      |                   |                   |                   |   |                   |  |
| Vertical height differences         |            |                         | Outdoor is higher/lower   | Max.20 / Max.20                             |                   |                   |                   |   |                   |  |
| Outdoor operating temperature range | Cooling    | °CDB                    | -15~46*2  |   |                   |                   |                   |   |                   |  |
|                                     | Heating    | °CWB                    | -15~20  |   |                   |                   |                   |   |                   |  |
| Panel                               |            |                         | T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black) |   |                   |                   |                   |   |                   |  |
| Air filter, Q'ty                    |            |                         | Pocket Plastic net x1(Washable)                                     |   |                   |                   |                   |   |                   |  |
| Remote control (option)             |            |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2    |   |                   |                   |                   |   |                   |  |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1 ).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.





# FDTC

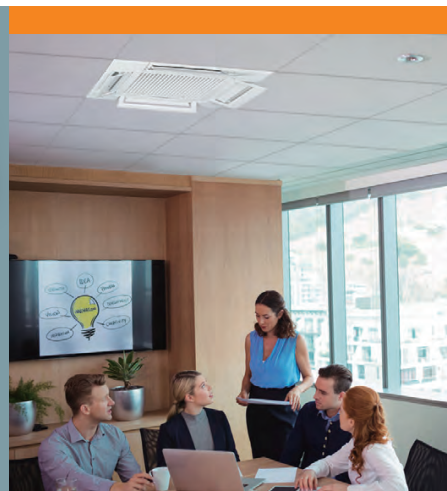
Indoor Unit

## Ceiling Cassette -4way Compact

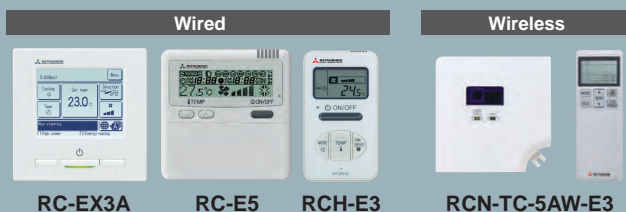


FDTC 40/50/60

Draft Prevention Panel (Option)



### Remote control (option)



\*Not all functions available with all remote control options.

## European Design & Flat Panel

### Unique Grille Design

A grille designed with a unique structure and a clean white panel that blends with the room.

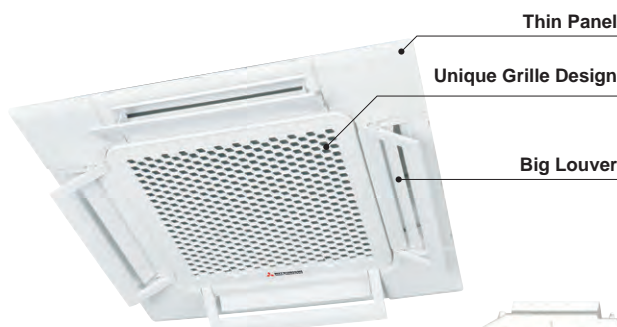


Honeycomb type

Grid type

### Integrated ceiling system design (600×600)

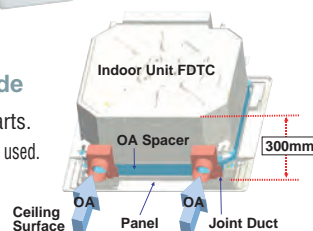
The weight is 14kg  
Height of thin panel and main body is 248mm allowing adequate spacing for installation.



### Taking OA (Outside Air) into inside

Fresh air can be taken in without optional parts.  
When the fresh air is insufficient, optional parts can be used.

OA Spacer TC-OAS-E2(option)  
Joint Duct TC-OAD-E(option)



## Draft Prevention Panel (Option)

This prevents cold/hot draft being blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.



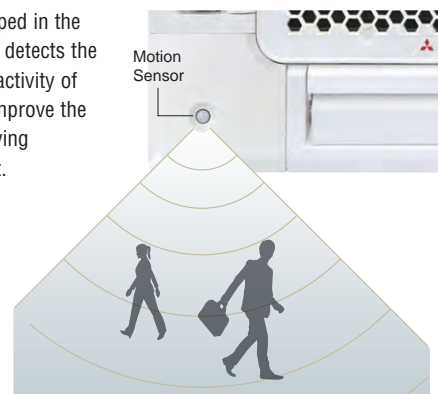
User can position panels by using the remote controller only (RC-EX3A, Wireless kit) when Draft Prevention Panel is available.

## Motion Sensor (Option)

Motion sensor is equipped in the corner of the panel and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



LB-TC-5W-E

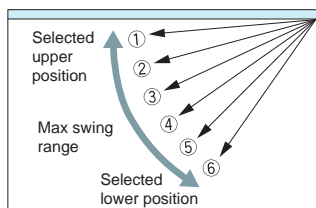




## Individual Flap Control System

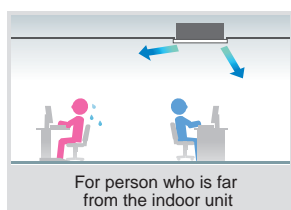


According to room temperature conditions, four directions of air flow can be controlled individually by following Flap control system. Individual flap control is available even after installation.

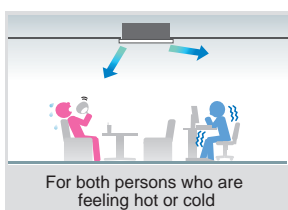


The flap can swing within the range of upper and lower flap position selected with wired remote control.

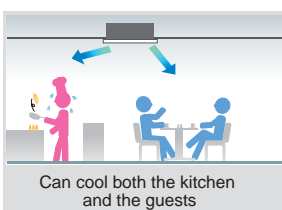
\* The wireless remote control is not applicable to the Individual flap control system.



For person who is far from the indoor unit



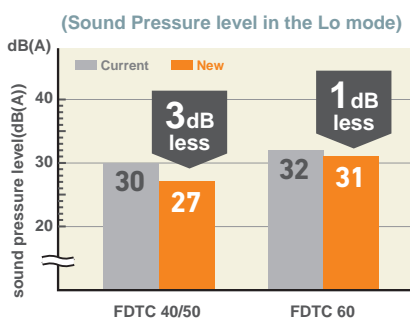
For both persons who are feeling hot or cold



Can cool both the kitchen and the guests

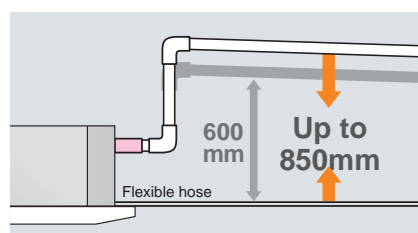
## Quieter Operation

Adopting new turbo fan and improving new heat exchanger enables noise reduction.



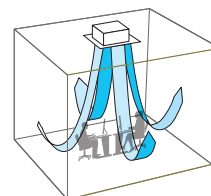
## 850mm Drain Pump

Drain can be discharged upward by 850mm from the ceiling surface close to the indoor unit. It allows a piping layout with a high degree of freedom depending on the installation location.



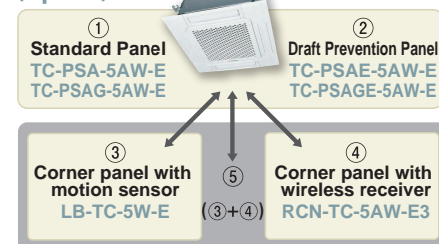
## Suitable for High ceilings

The Powerful blowout carries comfortable air flow to the floor even in high ceiling applications. It is ideal for high ceiling offices, stores, etc., with a wide, uniform air flow throughout the room.



## Panel Select Pattern

(Option)



8 patterns of panel are available.

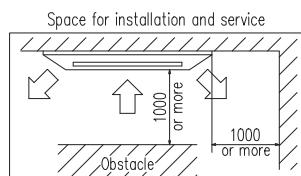
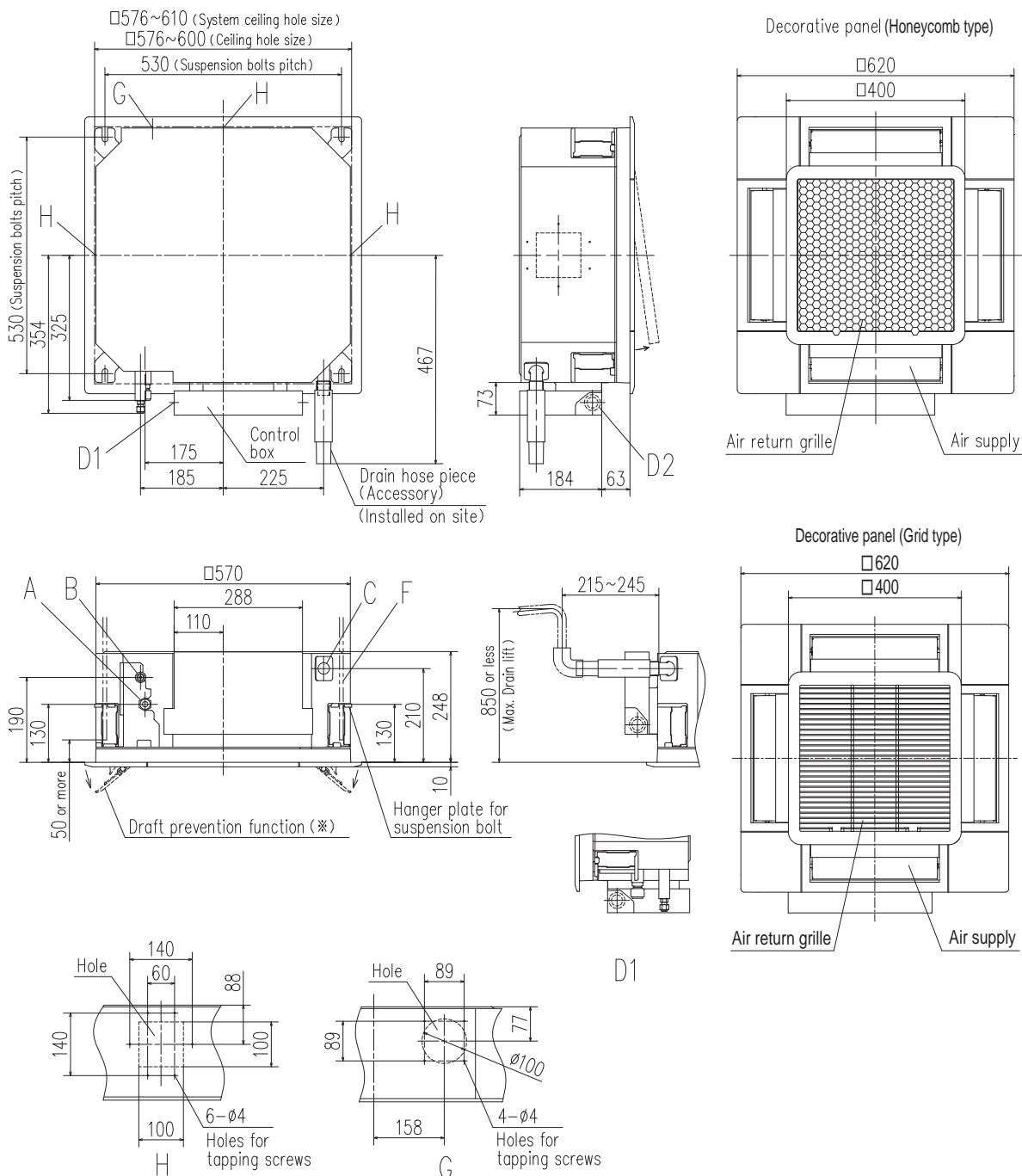
|     |   |
|-----|---|
| ①   | Standard Panel only   |
| ①+③ | Standard Panel with corner panel with motion sensor   |
| ①+④ | Standard Panel with corner panel with wireless receiver   |
| ①+⑤ | Standard Panel with corner panel with motion sensor & corner panel with wireless receiver         |
| ②   | Draft Prevention Panel only   |
| ②+③ | Draft Prevention Panel with corner panel with motion sensor                                       |
| ②+④ | Draft Prevention Panel with corner panel with wireless receiver                                   |
| ②+⑤ | Draft Prevention Panel with corner panel with motion sensor & corner panel with wireless receiver |

## OUTDOOR UNIT

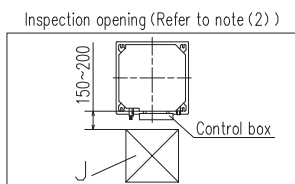
|                             |  | Hyper Inverter       |                      |                   |
|-----------------------------|--|----------------------|----------------------|-------------------|
| SRC • FDC                   |  | 40~60ZSX-W1,-W2      | 71VNX-W              | 100~140VN(S)X-W   |
|                             |  | 40~60ZSX-S           | 71VNX                | 100~140VN(S)X     |
| model                       |  |                      |                      |                   |
| Chargeless                  |  | 15m                  | 30m                  |                   |
| Height x Width x Depth (mm) |  | 640 x 800(+71) x 290 | 750 x 880(+88) x 340 | 1,300 x 970 x 370 |

|                             |  | Micro Inverter  |                   |                   |
|-----------------------------|--|-----------------|-------------------|-------------------|
| FDC                         |  | 100~140VN(S)A-W | —                 | 200~250VSA-W      |
|                             |  | 100~140VN(S)A   | 200VSA            | 250VSA            |
| model                       |  |                 |                   |                   |
| Chargeless                  |  | 30m             |                   |                   |
| Height x Width x Depth (mm) |  | 845 x 970 x 370 | 1,300 x 970 x 370 | 1,505 x 970 x 370 |





Make a space of 4000 or more between the units when installing more than one.



- Notes (1) The model name label is attached to the control box lid.  
 (2) This unit is designed for 2x2 grid ceiling.  
 If it is installed on a ceiling other than 2x2 grid ceiling, provide an inspection opening on the control box side.  
 (3) Draft prevention function (\*) is provided on the panel TC-PSAE-5AW-E, TC-PSAGE-5AW-E only.

| Symbol | Content  |                      |
|--------|--|----------------------|
| A      | Gas piping                                       | φ12.7 (1/2") (Flare) |
| B      | Liquid piping                                    | φ6.35 (1/4") (Flare) |
| C      | Drain piping                                     | VP25 (O.D.32)        |
| D1     | Power supply connection                          |                      |
| D2     | Remote control code and signal wiring connection |                      |
| F      | Suspension bolts                                 | (M10 or M8)          |
| G      | Outside air opening for ducting                  | (Knock out)          |
| H      | Air outlet opening for ducting                   | φ125 (Knock out)     |
| J      | Inspection opening                               | 450X450              |

| R32                                 |                     |  | Hyper Inverter   |   |  |
|-------------------------------------|---------------------|--|--|---|--|
| Set model name                      |                     |  | FDTC40ZSXW1VH  | FDTC50ZSXW2VH   | FDTC60ZSXW1VH                          |
| Indoor unit                         |                     |  | FDTC40VH   | FDTC50VH  | FDTC60VH                               |
| Outdoor unit                        |                     |  | SRC40ZSX-W1  | SRC50ZSX-W2   | SRC60ZSX-W1                            |
| Power source                        |                     |  | 1 Phase 220-240V, 50Hz / 220V, 60Hz  |   |  |
| Nominal cooling capacity (Min~Max)  |                     | kW   | 4.0 ( 1.1 ~ 4.7 )  | 5.0 ( 1.1 ~ 5.6 )   | 5.6 ( 1.1 ~ 6.3 )                      |
| Nominal heating capacity (Min~Max)  |                     | kW   | 4.5 ( 0.6 ~ 5.4 )  | 5.4 ( 0.6 ~ 6.3 )   | 6.7 ( 0.6 ~ 6.7 )                      |
| Power consumption                   |                     | Cooling/Heating<br>kW                              | 0.98 / 1.13  | 1.40 / 1.53   | 1.73 / 2.14                            |
| EER/COP                             |                     | Cooling/Heating                                    | 4.08 / 3.98  | 3.58 / 3.53   | 3.23 / 3.13                            |
| Inrush current                      |                     | A  | 5  | 5   | 5                                      |
| Max. current                        |                     |  | 15   | 15  | 15                                     |
| Sound power level*1                 | Indoor              | Cooling/Heating                                    | 59 / 59  | 59 / 59   | 60 / 60                                |
|                                     | Outdoor             | Cooling/Heating                                    | 63 / 62  | 63 / 62   | 65 / 65                                |
| Sound pressure level*1              | Indoor              | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27<br>44 / 40 / 35 / 27                                       | 44 / 40 / 35 / 27<br>44 / 40 / 35 / 27                              | 46 / 42 / 38 / 31<br>46 / 42 / 38 / 31 |
|                                     | Outdoor             | Cooling/Heating                                    | 52 / 50  | 52 / 50   | 53 / 54                                |
| Air flow                            | Indoor              | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7<br>13 / 11 / 9 / 7   | 13 / 11 / 9 / 7<br>13 / 11 / 9 / 7                                  | 14 / 12 / 10 / 8<br>14 / 12 / 10 / 8   |
|                                     |                     | Outdoor  | Cooling/Heating  | 33 / 33   | 39 / 33                                |
|                                     | Exterior dimensions | Indoor<br>Outdoor                                  | HeightxWidthxDepth<br>mm   | Unit: 248 x 570 x 570 Panel: 10 x 620 x 620<br>640 x 800(+71) x 290 |  |
| Net weight                          | Indoor              | kg   | 16.5(Unit:14 Standard Panel:2.5)   |   |  |
|                                     | Outdoor             |  | 45   |   |  |
| Ref.piping size                     | Liquid/Gas          | ømm  | 6.35(1/4") / 12.7(1/2")  |   |  |
| Refrigerant line (one way) length   |                     | m  | Max.30   |   |  |
| Vertical height differences         |                     | Outdoor is higher/lower<br>m                       | Max.20 / Max.20  |   |  |
| Outdoor operating temperature range | Cooling             | °CDB   | -15~46*2   |   |  |
|                                     | Heating             | °CWB   | -20~20   |   |  |
| Panel                               |                     |  | TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid) |   |  |
| Air filter, Q'ty                    |                     |  | Pocket plastic net x 1(Washable)   |   |  |
| Remote control (option)             |                     |  | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-TC-5AW-E3                       |   |  |

The values are for simultaneous Multi operation.

| R32                                 |                 |                         |  | HyperInverter                               |                     |                     |                   |
|-------------------------------------|-----------------|-------------------------|--|---|---------------------|---------------------|-------------------|
| Set model name                      |                 |                         |  | FDTC71VNXWPVH                               | FDTC100VNXWPVH      | FDTC125VNXWPVH      | FDTC140VNXWTVH    |
|                                     |                 |                         |  | Twin  |                     |                     | Triple            |
| Indoor unit                         |                 |                         | FDTC40VH x 2   | FDTC50VH x 2                                | FDTC60VH x 2        | FDTC50VH x 3        |                   |
| Outdoor unit                        |                 |                         | FDC71VNX-W   | FDC100VNX-W                                 | FDC125VNX-W         | FDC140VNX-W         |                   |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz  |   |                     |                     |                   |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 7.1 ( 3.2 ~ 8.0 )  | 10.0 ( 3.5 ~ 11.2 )                         | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) |                   |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 8.0 ( 3.6 ~ 9.0 )  | 11.2 ( 2.7 ~ 12.5 )                         | 14.0 ( 2.7 ~ 17.0 ) | 16.0 ( 2.7 ~ 18.0 ) |                   |
| Power consumption                   | Cooling/Heating | kW                      | 1.73 / 1.83  | 2.60 / 3.04                                 | 3.67 / 4.05         | 3.96 / 4.34         |                   |
| EER/COP                             | Cooling/Heating |                         | 4.12 / 4.37  | 3.84 / 3.69                                 | 3.41 / 3.45         | 3.54 / 3.69         |                   |
| Inrush current                      |                 | A                       | 5  | 5   | 5                   | 5                   |                   |
| Max. current                        |                 |                         | 19.1   | 25  | 27                  | 27                  |                   |
| Sound power level*1                 | Indoor*3        | dB(A)                   | 59 / 59  | 59 / 59                                     | 60 / 60             | 59 / 59             |                   |
|                                     | Outdoor         |                         | 66 / 66  | 67 / 67                                     | 68 / 70             | 69 / 71             |                   |
| Sound pressure level*1              | Indoor*3        |                         | Cooling (P-Hi/Hi/Me/Lo)  | 44 / 40 / 35 / 27                           | 44 / 40 / 35 / 27   | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27 |
|                                     |                 |                         | Heating (P-Hi/Hi/Me/Lo)  | 44 / 40 / 35 / 27                           | 44 / 40 / 35 / 27   | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27 |
| Air flow                            | Outdoor         | Cooling/Heating         | 51 / 51  | 53 / 51                                     | 53 / 54             | 54 / 54             |                   |
|                                     | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 13 / 11 / 9 / 7                             | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     |                   |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 13 / 11 / 9 / 7                             | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     |                   |
|                                     | Outdoor         | Cooling/Heating         | m³/min   | 60 / 50                                     | 100 / 100           | 100 / 100           | 100 / 100         |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | mm   | Unit: 248 x 570 x 570 Panel: 10 x 620 x 620 |                     |                     |                   |
|                                     | Outdoor         |                         |  | 750 x 880(+88) x 340                        | 1,300 x 970 x 370   |                     |                   |
| Net weight                          | Indoor          |                         | kg   | 16.5(Unit:14 Standard Panel:2.5)            |                     |                     |                   |
|                                     | Outdoor         |                         |  | 60  | 97                  |                     |                   |
| Ref.piping size                     | Liquid/Gas      |                         | ømm  | 9.52(3/8") / 15.88(5/8")                    |                     |                     |                   |
| Refrigerant line (one way) length   |                 |                         | m  | Max.50                                      | Max.100             |                     |                   |
| Vertical height differences         |                 | Outdoor is higher/lower | m  | Max.30 / Max.15                             | Max.50 / Max.15     |                     |                   |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~50*2   |   |                     |                     |                   |
|                                     | Heating         | °CWB                    | -20~20   |   |                     |                     |                   |
| Panel                               |                 |                         | TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid) |   |                     |                     |                   |
| Air filter, Q'ty                    |                 |                         | Pocket plastic net x 1(Washable)   |   |                     |                     |                   |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3                          |   |                     |                     |                   |

**NOTES:**

- The data are measured under the following conditions(ISO-T1, -H1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
\*3 : The values are for one indoor unit operation. (Multi system only)

## SPECIFICATIONS -FDTC-

The values are for simultaneous Multi operation.

| R32                                 |                 |                         | Hyper Inverter   |                     |                     |
|-------------------------------------|-----------------|-------------------------|--|---------------------|---------------------|
| Set model name                      |                 |                         | FDTC100VSXWPH  | FDTC125VSXWPH       | FDTC140VSXWPH       |
|                                     |                 |                         | Twin   |                     | Triple              |
| Indoor unit                         |                 |                         | FDTC50VH x 2   | FDTC60VH x 2        | FDTC50VH x 3        |
| Outdoor unit                        |                 |                         | FDC100VSX-W  | FDC125VSX-W         | FDC140VSX-W         |
| Power source                        |                 |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz  |                     |                     |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 10.0 ( 3.5 ~ 11.2 )  | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 11.2 ( 2.7 ~ 16.0 )  | 14.0 ( 2.7 ~ 18.0 ) | 16.0 ( 2.7 ~ 20.0 ) |
| Power consumption                   | Cooling/Heating | kW                      | 2.60 / 3.04  | 3.67 / 4.05         | 3.96 / 4.34         |
| EER/COP                             | Cooling/Heating |                         | 3.84 / 3.69  | 3.41 / 3.45         | 3.54 / 3.69         |
| Inrush current                      |                 | A                       | 5  | 5                   | 5                   |
| Max. current                        |                 |                         | 14   | 14                  | 14                  |
| Sound power level*1                 | Indoor*3        | Cooling/Heating         | 59 / 59  | 60 / 60             | 59 / 59             |
|                                     | Outdoor         | Cooling/Heating         | 67 / 67  | 68 / 70             | 69 / 71             |
| Sound pressure level*1              | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27   |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27   |
|                                     | Outdoor         | Cooling/Heating         | 53 / 51  | 53 / 54             | 54 / 54             |
| Air flow                            | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     |
|                                     | Outdoor         | Cooling/Heating         | 100 / 100  | 100 / 100           | 100 / 100           |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | Unit: 248 x 570 x 570 Panel: 10 x 620 x 620                                  |                     |                     |
|                                     | Outdoor         |                         | 1,300 x 970 x 370  |                     |                     |
| Net weight                          | Indoor          |                         | 16.5(Unit:14 Standard Panel:2.5)   |                     |                     |
|                                     | Outdoor         |                         | 99   |                     |                     |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 9.52(3/8") / 15.88(5/8")   |                     |                     |
| Refrigerant line (one way) length   |                 | m                       | Max.100  |                     |                     |
| Vertical height differences         |                 | Outdoor is higher/lower | Max.50 / Max.15  |                     |                     |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~50*2   |                     |                     |
|                                     | Heating         | °CWB                    | -20~20   |                     |                     |
| Panel                               |                 |                         | TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid) |                     |                     |
| Air filter, Q'ty                    |                 |                         | Pocket plastic net x 1(Washable)   |                     |                     |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3                          |                     |                     |

| R410A                               |                 |                         | Hyper Inverter   |                   |                   |
|-------------------------------------|-----------------|-------------------------|--|-------------------|-------------------|
| Set model name                      |                 |                         | FDTC40ZSXVH  | FDTC50ZSXVH       | FDTC60ZSXVH       |
| Indoor unit                         |                 |                         | FDTC40VH   | FDTC50VH          | FDTC60VH          |
| Outdoor unit                        |                 |                         | SRC40ZSX-S   | SRC50ZSX-S        | SRC60ZSX-S        |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz  |                   |                   |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 4.0 ( 1.1 ~ 4.7 )  | 5.0 ( 1.1 ~ 5.6 ) | 5.6 ( 1.1 ~ 6.3 ) |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 4.5 ( 0.6 ~ 5.4 )  | 5.4 ( 0.6 ~ 6.3 ) | 6.7 ( 0.6 ~ 6.7 ) |
| Power consumption                   | Cooling/Heating | kW                      | 0.98 / 1.13  | 1.43 / 1.53       | 1.76 / 2.14       |
| EER/COP                             | Cooling/Heating |                         | 4.08 / 3.98  | 3.50 / 3.53       | 3.18 / 3.13       |
| Inrush current                      |                 | A                       | 5  | 5                 | 5                 |
| Max. current                        |                 |                         | 12   | 15                | 15                |
| Sound power level*1                 | Indoor          | Cooling/Heating         | 59 / 59  | 59 / 59           | 60 / 60           |
|                                     | Outdoor         | Cooling/Heating         | 63 / 63  | 63 / 63           | 65 / 64           |
| Sound pressure level*1              | Indoor          | Cooling (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 44 / 40 / 35 / 27 | 46 / 42 / 38 / 31 |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 44 / 40 / 35 / 27 | 46 / 42 / 38 / 31 |
|                                     | Outdoor         | Cooling/Heating         | 50 / 49  | 50 / 49           | 52 / 52           |
| Air flow                            | Indoor          | Cooling (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 13 / 11 / 9 / 7   | 14 / 12 / 10 / 8  |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 13 / 11 / 9 / 7   | 14 / 12 / 10 / 8  |
|                                     | Outdoor         | Cooling/Heating         | 36 / 33  | 40 / 33           | 41.5 / 39         |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | Unit: 248 x 570 x 570 Panel: 10 x 620 x 620                                  |                   |                   |
|                                     | Outdoor         |                         | 640 x 800(+71) x 290   |                   |                   |
| Net weight                          | Indoor          |                         | 16.5(Unit:14 Standard Panel:2.5)   |                   |                   |
|                                     | Outdoor         |                         | 45   |                   |                   |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 6.35(1/4") / 12.7(1/2")  |                   |                   |
| Refrigerant line (one way) length   |                 | m                       | Max.30   |                   |                   |
| Vertical height differences         |                 | Outdoor is higher/lower | Max.20 / Max.20  |                   |                   |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~46*2   |                   |                   |
|                                     | Heating         | °CWB                    | -20~20   |                   |                   |
| Panel                               |                 |                         | TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid) |                   |                   |
| Air filter, Q'ty                    |                 |                         | Pocket plastic net x 1(Washable)   |                   |                   |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3                          |                   |                   |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1 ).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

| R410A                               |                 |  | Hyper Inverter   |   |                     |                     |                   |
|-------------------------------------|-----------------|--|--|---|---------------------|---------------------|-------------------|
| Set model name                      |                 |  | FDTC71VNXPVH   | FDTC100VNXPVH                               | FDTC125VNXPVH       | FDTC140VNXTVH       |                   |
|                                     |                 |  | Twin   |   |                     | Triple              |                   |
| Indoor unit                         |                 |  | FDTC40VH x 2   | FDTC50VH x 2                                | FDTC60VH x 2        | FDTC50VH x 3        |                   |
| Outdoor unit                        |                 |  | FDC71VNX   | FDC100VNX                                   | FDC125VNX           | FDC140VNX           |                   |
| Power source                        |                 |  | 1 Phase 220-240V, 50Hz / 220V, 60Hz  |   |                     |                     |                   |
| Nominal cooling capacity (Min~Max)  |                 | kW   | 7.1 ( 3.2 ~ 8.0 )  | 10.0 ( 4.0 ~ 11.2 )                         | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 ) |                   |
| Nominal heating capacity (Min~Max)  |                 | kW   | 8.0 ( 3.6 ~ 9.0 )  | 11.2 ( 4.0 ~ 12.5 )                         | 14.0 ( 4.0 ~ 17.0 ) | 16.0 ( 4.0 ~ 18.0 ) |                   |
| Power consumption                   | Cooling/Heating | kW   | 2.03 / 1.64  | 2.80 / 3.50                                 | 4.10 / 4.10         | 4.20 / 4.34         |                   |
| EER/COP                             | Cooling/Heating | A  | 3.50 / 4.88  | 3.57 / 3.20                                 | 3.05 / 3.41         | 3.33 / 3.69         |                   |
| Inrush current                      |                 |  | 5  | 5   | 5                   | 5                   |                   |
| Max. current                        |                 |  | 17   | 24  | 24                  | 26                  |                   |
| Sound power level*1                 | Indoor*3        | Cooling/Heating                                    | dB(A)  | 59 / 59                                     | 59 / 59             | 60 / 60             | 59 / 59           |
|                                     | Outdoor         |  |  | Cooling/Heating                             | 66 / 66             | 70 / 70             | 70 / 70           |
| Sound pressure level*1              | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) | dB(A)  | 44 / 40 / 35 / 27                           | 44 / 40 / 35 / 27   | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27 |
|                                     | Outdoor         |  |  | Cooling/Heating                             | 51 / 48             | 48 / 50             | 48 / 50           |
| Air flow                            | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo)                            | m³/min   | 13 / 11 / 9 / 7                             | 13 / 11 / 9 / 7     | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7   |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo)                            |  | 13 / 11 / 9 / 7                             | 13 / 11 / 9 / 7     | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7   |
|                                     | Outdoor         | Cooling/Heating                                    |  | 60 / 50                                     | 100 / 100           | 100 / 100           | 100 / 100         |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth                                 | mm   | Unit: 248 x 570 x 570 Panel: 10 x 620 x 620 |                     |                     |                   |
|                                     | Outdoor         |  |  | 750 x 880(+88) x 340                        | 1,300 x 970 x 370   |                     |                   |
| Net weight                          | Indoor          |  | kg   | 16.5(Unit:14 Standard Panel:2.5)            |                     |                     |                   |
|                                     | Outdoor         |  |  | 60  | 105                 |                     |                   |
| Ref.piping size                     | Liquid/Gas      | ømm  | 9.52(3/8") / 15.88(5/8")   |   |                     |                     |                   |
| Refrigerant line (one way) length   |                 | m  | Max.50   | Max.100                                     |                     |                     |                   |
| Vertical height differences         |                 | Outdoor is higher/lower                            | m  | Max.30 / Max.15                             |                     |                     |                   |
| Outdoor operating temperature range | Cooling         | °CDB   | -15~43*2   |   |                     |                     |                   |
|                                     | Heating         | °CWB   | -20~20   |   |                     |                     |                   |
| Panel                               |                 |  | TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid) |   |                     |                     |                   |
| Air filter, Q'ty                    |                 |  | Pocket plastic net x 1(Washable)   |   |                     |                     |                   |
| Remote control (option)             |                 |  | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3                          |   |                     |                     |                   |

The values are for simultaneous Multi operation.

| R410A                               |                         |                         | Hyper Inverter   |                     |                     |
|-------------------------------------|-------------------------|-------------------------|--|---------------------|---------------------|
| Set model name                      |                         |                         | FDTC100VSXPVH  | FDTC125VSXPVH       | FDTC140VSXTVH       |
|                                     |                         |                         | Twin   |                     | Triple              |
| Indoor unit                         |                         |                         | FDTC50VH x 2   | FDTC60VH x 2        | FDTC50VH x 3        |
| Outdoor unit                        |                         |                         | FDC100VSX  | FDC125VSX           | FDC140VSX           |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz  |                     |                     |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )  | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 16.0 )  | 14.0 ( 4.0 ~ 18.0 ) | 16.0 ( 4.0 ~ 20.0 ) |
| Power consumption                   | Cooling/Heating         | kW                      | 2.80 / 3.50  | 4.10 / 4.10         | 4.20 / 4.34         |
| EER/COP                             | Cooling/Heating         |                         | 3.57 / 3.20  | 3.05 / 3.41         | 3.33 / 3.69         |
| Inrush current                      |                         | A                       | 5  | 5                   | 5                   |
| Max. current                        |                         |                         | 15   | 15                  | 15                  |
| Sound power level*1                 | Indoor*3                | Cooling/Heating         | 59 / 59  | 60 / 60             | 59 / 59             |
|                                     | Outdoor                 | Cooling/Heating         | 70 / 70  | 70 / 70             | 72 / 72             |
| Sound pressure level*1              | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27   |
|                                     | Outdoor                 | Cooling/Heating         | 48 / 50  | 48 / 50             | 49 / 52             |
| Air flow                            | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     |
|                                     | Outdoor                 | Cooling/Heating         | 100 / 100  | 100 / 100           | 100 / 100           |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | Unit: 248 x 570 x 570 Panel: 10 x 620 x 620                                  |                     |                     |
|                                     | Outdoor                 |                         | 1,300 x 970 x 370  |                     |                     |
| Net weight                          | Indoor                  |                         | 16.5(Unit:14 Standard Panel:2.5)   |                     |                     |
|                                     | Outdoor                 |                         | 105  |                     |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")   |                     |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.100  |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.30 / Max.15  |                     |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~43*2   |                     |                     |
|                                     | Heating                 | °CWB                    | -20~20   |                     |                     |
| Panel                               |                         |                         | TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid) |                     |                     |
| Air filter, Q'ty                    |                         |                         | Pocket plastic net x 1(Washable)   |                     |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3                          |                     |                     |



## SPECIFICATIONS -FDTC-

The values are for simultaneous Multi operation.

| R32                                 |                         | Micro Inverter   |                     |                     |
|-------------------------------------|-------------------------|--|---------------------|---------------------|
| Set model name                      |                         | FDTC100VNAWPVH   | FDTC125VNAWPVH      | FDTC140VNAWTVH      |
|                                     |                         | Twin   |                     | Triple              |
| Indoor unit                         |                         | FDTC50VH x 2   | FDTC60VH x 2        | FDTC50VH x 3        |
| Outdoor unit                        |                         | FDC100VNA-W  | FDC125VNA-W         | FDC140VNA-W         |
| Power source                        |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz  |                     |                     |
| Nominal cooling capacity (Min-Max)  | kW                      | 10.0 ( 4.0 ~ 11.2 )  | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min-Max)  | kW                      | 11.2 ( 4.0 ~ 12.5 )  | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating         | 3.15 / 3.05  | 4.90 / 4.30         | 4.75 / 4.60         |
| EER/COP                             | Cooling/Heating         | 3.17 / 3.67  | 2.55 / 3.26         | 2.86 / 3.37         |
| Inrush current                      |                         | 5  | 5                   | 5                   |
| Max. current                        |                         | 24   | 24                  | 24                  |
| Sound power level*1                 | Indoor*3                | 59 / 59  | 60 / 60             | 59 / 59             |
|                                     | Outdoor                 | 69 / 70  | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor*3                | 44 / 40 / 35 / 27  | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27   |
|                                     | Heating (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27   |
|                                     | Outdoor                 | 54 / 55  | 54 / 56             | 56 / 58             |
| Air flow                            | Indoor*3                | 13 / 11 / 9 / 7  | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     |
|                                     | Heating (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     |
|                                     | Outdoor                 | 75 / 73  | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor                  | Unit: 248 x 570 x 570 Panel: 10 x 620 x 620                                  |                     |                     |
|                                     | Outdoor                 | 845 x 970 x 370  |                     |                     |
| Net weight                          | Indoor                  | 16.5(Unit:14 Standard Panel:2.5)   |                     |                     |
|                                     | Outdoor                 | 77   |                     |                     |
| Ref.piping size                     | Liquid/Gas              | 9.52(3/8") / 15.88(5/8")   |                     |                     |
| Refrigerant line (one way) length   |                         | Max.50   |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | Max.50 / Max.15  |                     |                     |
| Outdoor operating temperature range | Cooling                 | -15~50*2   |                     |                     |
|                                     | Heating                 | -20~20   |                     |                     |
| Panel                               |                         | TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid) |                     |                     |
| Air filter, Q'ty                    |                         | Pocket plastic net x 1(Washable)   |                     |                     |
| Remote control (option)             |                         | wired:RC-EX3A, RC-E5, RCH-E3, wireless:RCN-TC-5AW-E3                         |                     |                     |

The values are for simultaneous Multi operation.

| R32                                 |                 |                         | Micro Inverter                      |  |                     |                     |                          |                     |                          |
|-------------------------------------|-----------------|-------------------------|-------------------------------------|--|---------------------|---------------------|--------------------------|---------------------|--------------------------|
| Set model name                      |                 |                         | FDTC100VSAWPVH                      |  | FDTC125VSAWPVH      | FDTC140VSAWTVH      | FDTC200VSAWDVH           | FDTC250VSAWDVH      |                          |
|                                     |                 |                         | Twin                                |  |                     | Triple              | Double Twin              |                     |                          |
| Indoor unit                         |                 |                         | FDTC50VH x 2                        |  | FDTC60VH x 2        | FDTC50VH x 3        | FDTC50VH x 4             | FDTC60VH x 4        |                          |
| Outdoor unit                        |                 |                         | FDC100VSA-W                         |  | FDC125VSA-W         | FDC140VSA-W         | FDC200VSA-W              | FDC250VSA-W         |                          |
| Power source                        |                 |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz |  |                     |                     |                          |                     |                          |
| Nominal cooling capacity (Min-Max)  |                 | kW                      | 10.0 ( 4.0 ~ 11.2 )                 |  | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) | 20.0 ( 7.1 ~ 22.4 )      | 25.0 ( 7.1 ~ 28.0 ) |                          |
| Nominal heating capacity (Min-Max)  |                 | kW                      | 11.2 ( 4.0 ~ 12.5 )                 |  | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) | 22.4 ( 6.6 ~ 25.0 )      | 28.0 ( 5.2 ~ 31.5 ) |                          |
| Power consumption                   | Cooling/Heating | kW                      | 3.15 / 3.05                         |  | 4.90 / 4.30         | 4.75 / 4.60         | 6.92 / 6.37              | 9.43 / 8.75         |                          |
| EER/COP                             | Cooling/Heating |                         | 3.17 / 3.67                         |  | 2.55 / 3.26         | 2.86 / 3.37         | 2.89 / 3.52              | 2.65 / 3.20         |                          |
| Inrush current                      |                 | A                       | 5                                   |  | 5                   | 5                   | 5                        | 5                   |                          |
| Max. current                        |                 |                         | 15                                  |  | 15                  | 15                  | 19                       | 20                  |                          |
| Sound power level*1                 | Indoor*3        | Cooling/Heating         | dB(A)                               | 59 / 59  |                     | 60 / 60             | 59 / 59                  | 59 / 59             | 60 / 60                  |
|                                     | Outdoor         | Cooling/Heating         |                                     | 69 / 70  |                     | 71 / 71             | 72 / 73                  | 72 / 74             | 73 / 75                  |
| Sound pressure level*1              | Indoor*3        | Cooling (P-Hi/Hi/Me/Lo) |                                     | 44 / 40 / 35 / 27  |                     | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27        | 44 / 40 / 35 / 27   | 46 / 42 / 38 / 31        |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) |                                     | 44 / 40 / 35 / 27  |                     | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27        | 44 / 40 / 35 / 27   | 46 / 42 / 38 / 31        |
|                                     | Outdoor         | Cooling/Heating         |                                     | 54 / 55  |                     | 54 / 56             | 56 / 58                  | 58 / 59             | 58 / 62                  |
|                                     |                 | Cooling (P-Hi/Hi/Me/Lo) |                                     | 13 / 11 / 9 / 7  |                     | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7          | 13 / 11 / 9 / 7     | 14 / 12 / 10 / 8         |
| Air flow                            | Indoor*3        | Heating (P-Hi/Hi/Me/Lo) | m³/min                              | 13 / 11 / 9 / 7  |                     | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7          | 13 / 11 / 9 / 7     | 14 / 12 / 10 / 8         |
|                                     | Outdoor         | Cooling/Heating         |                                     | 75 / 73  |                     | 75 / 73             | 75 / 73                  | 148 / 134           | 148 / 153                |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | mm                                  | Unit: 248 x 570 x 570 Panel: 10 x 620 x 620                                  |                     |                     |                          |                     |                          |
|                                     | Outdoor         |                         |                                     | 845 x 970 x 370  |                     |                     | 1,505 x 970 x 370        |                     |                          |
| Net weight                          | Indoor          |                         | kg                                  | 16.5(Unit:14 Standard Panel:2.5)   |                     |                     |                          |                     |                          |
|                                     | Outdoor         |                         |                                     | 78   |                     |                     | 144                      |                     | 145                      |
| Ref.piping size                     | Liquid/Gas      |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")   |                     |                     | 9.52(3/8") / 22.22(7/8") |                     | 12.7(1/2") / 22.22(7/8") |
| Refrigerant line (one way) length   |                 |                         | m                                   | Max.50   |                     |                     | Max.70                   |                     |                          |
| Vertical height differences         |                 |                         | Outdoor is higher/lower             | m  | Max.50 / Max.15     |                     |                          | Max.50*4 / Max.15   |                          |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15-50*2                            |  |                     |                     |                          |                     |                          |
|                                     | Heating         | °CWB                    | -20-20                              |  |                     |                     |                          |                     |                          |
| Panel                               |                 |                         |                                     | TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid) |                     |                     |                          |                     |                          |
| Air filter, Q'ty                    |                 |                         |                                     | Pocket plastic net x 1(Washable)   |                     |                     |                          |                     |                          |
| Remote control (option)             |                 |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3, wireless:RCN-TC-5AW-E3                         |                     |                     |                          |                     |                          |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

The values are for simultaneous Multi operation.

FDTC

Indoor Unit

| R410A                               |                         |                         | Micro Inverter   |                     |                     |
|-------------------------------------|-------------------------|-------------------------|--|---------------------|---------------------|
| Set model name                      |                         |                         | FDTC100VNAPVH  | FDTC125VNAPVH       | FDTC140VNATVH       |
|                                     |                         |                         | Twin   |                     | Triple              |
| Indoor unit                         |                         |                         | FDTC50VH x 2   | FDTC60VH x 2        | FDTC50VH x 3        |
| Outdoor unit                        |                         |                         | FDC100VNA  | FDC125VNA           | FDC140VNA           |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz  |                     |                     |
| Nominal cooling capacity (Min~Max)  | kW                      |                         | 10.0 ( 4.0 ~ 11.2 )  | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  | kW                      |                         | 11.2 ( 4.0 ~ 12.5 )  | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating         | kW                      | 3.30 / 3.15  | 4.90 / 4.50         | 4.75 / 4.60         |
| EER/COP                             | Cooling/Heating         |                         | 3.03 / 3.56  | 2.55 / 3.11         | 2.86 / 3.37         |
| Inrush current                      |                         | A                       | 5  | 5                   | 5                   |
| Max. current                        |                         |                         | 25   | 25                  | 25                  |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup>    | Cooling/Heating         | 59 / 59  | 60 / 60             | 59 / 59             |
|                                     | Outdoor                 | Cooling/Heating         | 70 / 70  | 71 / 71             | 73 / 73             |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup>    | Cooling (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27   |
|                                     | Outdoor                 | Cooling/Heating         | 54 / 56  | 55 / 57             | 57 / 59             |
| Air flow                            | Indoor* <sup>3</sup>    | Cooling (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     |
|                                     | Outdoor                 | Cooling/Heating         | 75 / 73  | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | Unit: 248 x 570 x 570 Panel: 10 x 620 x 620                                  |                     |                     |
|                                     | Outdoor                 |                         | 845 x 970 x 370  |                     |                     |
| Net weight                          | Indoor                  |                         | 16.5(Unit:14 Standard Panel:2.5)   |                     |                     |
|                                     | Outdoor                 |                         | 80   |                     |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")   |                     |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.50   |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.50 / Max.15  |                     |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50* <sup>2</sup>   |                     |                     |
|                                     | Heating                 | °CWB                    | -20~20   |                     |                     |
| Panel                               |                         |                         | TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid) |                     |                     |
| Air filter, Q'ty                    |                         |                         | Pocket plastic net x 1(Washable)   |                     |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3, wireless:RCN-TC-5AW-E3                         |                     |                     |

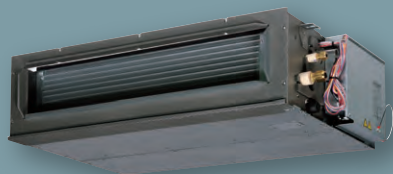
The values are for simultaneous Multi operation.

| R410A                               |                      |                         | Micro Inverter   |                     |                     |   |                     |
|-------------------------------------|----------------------|-------------------------|--|---------------------|---------------------|---|---------------------|
| Set model name                      |                      |                         | FDTC100VSAPVH  | FDTC125VSAPVH       | FDTC140VSATVH       | FDTC200VSADVH                                     | FDTC250VSADVH       |
|                                     |                      |                         | Twin   |                     | Triple              | Double Twin                                       |                     |
| Indoor unit                         |                      |                         | FDTC50VH x 2   | FDTC60VH x 2        | FDTC50VH x 3        | FDTC50VH x 4                                      | FDTC60VH x 4        |
| Outdoor unit                        |                      |                         | FDC100VSA  | FDC125VSA           | FDC140VSA           | FDC200VSA   | FDC250VSA           |
| Power source                        |                      |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz  |                     |                     |   |                     |
| Nominal cooling capacity (Min~Max)  |                      | kW                      | 10.0 ( 4.0 ~ 11.2 )  | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) | 19.0 ( 5.2 ~ 22.4 )                               | 24.0 ( 6.9 ~ 28.0 ) |
| Nominal heating capacity (Min~Max)  |                      | kW                      | 11.2 ( 4.0 ~ 12.5 )  | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) | 22.4 ( 3.3 ~ 25.0 )                               | 27.0 ( 5.5 ~ 31.5 ) |
| Power consumption                   | Cooling/Heating      | kW                      | 3.30 / 3.15  | 4.90 / 4.50         | 4.75 / 4.60         | 6.95 / 6.79                                       | 10.65 / 8.20        |
| EER/COP                             | Cooling/Heating      |                         | 3.03 / 3.56  | 2.55 / 3.11         | 2.86 / 3.37         | 2.73 / 3.30                                       | 2.25 / 3.29         |
| Inrush current                      |                      | A                       | 5  | 5                   | 5                   | 5   | 5                   |
| Max. current                        |                      |                         | 15   | 15                  | 15                  | 20  | 21                  |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup> | Cooling/Heating         | 59 / 59  | 60 / 60             | 59 / 59             | 59 / 59   | 60 / 60             |
|                                     | Outdoor              | Cooling/Heating         | 70 / 70  | 71 / 71             | 73 / 73             | 72 / 74   | 75 / 75             |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup> | Cooling (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27   | 44 / 40 / 35 / 27                                 | 46 / 42 / 38 / 31   |
|                                     |                      | Heating (P-Hi/Hi/Me/Lo) | 44 / 40 / 35 / 27  | 46 / 42 / 38 / 31   | 44 / 40 / 35 / 27   | 44 / 40 / 35 / 27                                 | 46 / 42 / 38 / 31   |
| Air flow                            | Outdoor              | Cooling/Heating         | 54 / 56  | 55 / 57             | 57 / 59             | 58 / 59   | 61 / 62             |
|                                     | Indoor* <sup>3</sup> | Cooling (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     | 13 / 11 / 9 / 7                                   | 14 / 12 / 10 / 8    |
|                                     |                      | Heating (P-Hi/Hi/Me/Lo) | 13 / 11 / 9 / 7  | 14 / 12 / 10 / 8    | 13 / 11 / 9 / 7     | 13 / 11 / 9 / 7                                   | 14 / 12 / 10 / 8    |
|                                     | Outdoor              | Cooling/Heating         | 75 / 73  | 75 / 73             | 75 / 73             | 135 / 135   | 143 / 151           |
| Exterior dimensions                 | Indoor               | HeightxWidthxDepth      | Unit: 248 x 570 x 570 Panel: 10 x 620 x 620                                  |                     |                     |   |                     |
|                                     | Outdoor              |                         | 845 x 970 x 370  |                     | 1,300 x 970 x 370   |   | 1,505 x 970 x 370   |
| Net weight                          | Indoor               |                         | 16.5(Unit:14 Standard Panel:2.5)   |                     |                     |   |                     |
|                                     | Outdoor              |                         | kg   | 82                  |                     | 115   | 143                 |
| Ref.piping size                     | Liquid/Gas           | ømm                     | 9.52(3/8") / 15.88(5/8")   |                     |                     | 9.52(3/8") / 22.22(7/8") 12.7(1/2") / 22.22(7/8") |                     |
| Refrigerant line (one way) length   |                      | m                       | Max.50   |                     |                     | Max.70  |                     |
| Vertical height differences         |                      | Outdoor is higher/lower | Max.50 / Max.15  |                     |                     | Max.30 / Max.15                                   |                     |
| Outdoor operating temperature range | Cooling              | °CDB                    | -15-50* <sup>2</sup>   |                     |                     |   |                     |
|                                     | Heating              | °CWB                    | -20-20   |                     |                     | -15-20  |                     |
| Panel                               |                      |                         | TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid) |                     |                     |   |                     |
| Air filter, Q'ty                    |                      |                         | Pocket plastic net x 1(Washable)   |                     |                     |   |                     |
| Remote control (option)             |                      |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3                          |                     |                     |   |                     |

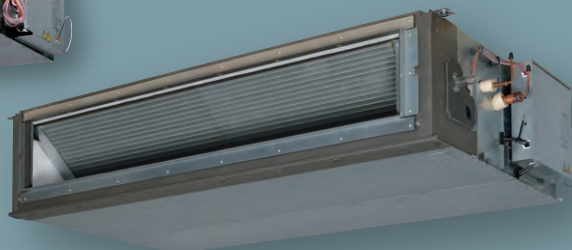
# FDU

Indoor Unit

Duct Connected -High Static pressure-



FDU 71/100/125/140



New FDU 200/250/280



Remote control (option)

Wired

Wireless



RC-EX3A  
RC-EXZ3A



RC-E5 RCH-E3



RCN-KIT4-E2

\*Not all functions available with all remote control options.

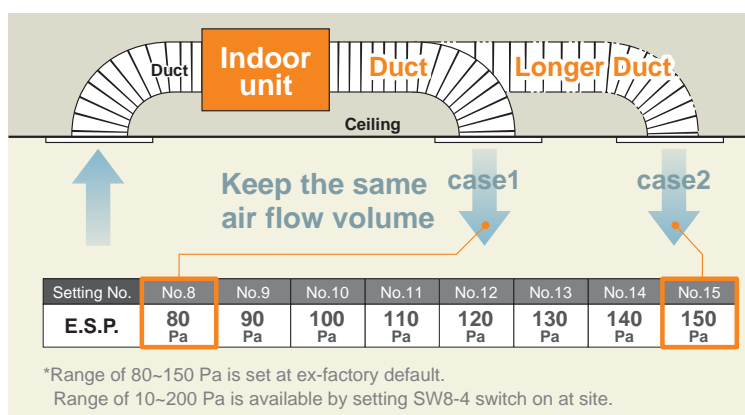
## External Static Pressure (E.S.P.) Control

The External Static Pressure (E.S.P.) can be manually set on the wired remote controller. Indoor unit will control the fan speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by wired remote controller, calculated with the set air flow rate and the pressure loss of the duct.

RC-E5

E.S.P. button

External Static Pressure (E.S.P.) can be set by E.S.P. button.



Expansion of external static pressure range

Previous  
10~130Pa



Current  
10~200Pa

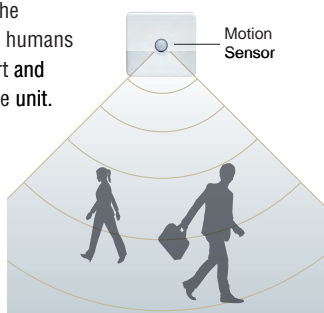
## Motion Sensor (Option)

New

Motion sensor is equipped in the ceiling plane or wall plane and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.

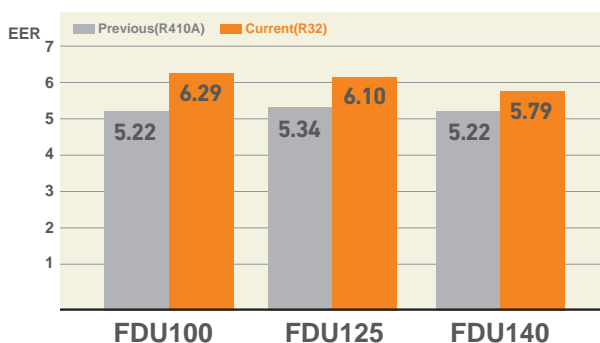


LB-KIT2



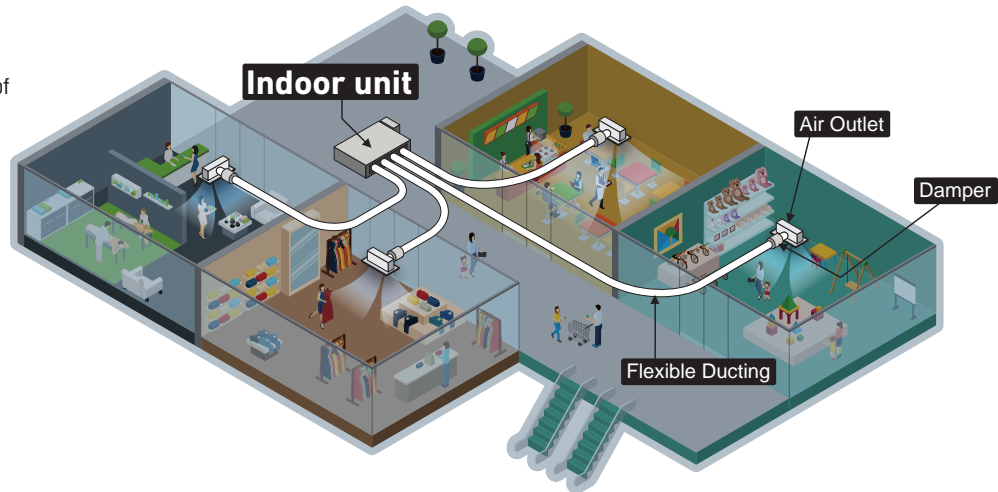
## High Efficiency

Energy efficiency is improved by use of DC fan motor & high efficient heat exchanger.



## Zoning system

Effectively control temperatures of multiple rooms with one indoor duct unit.



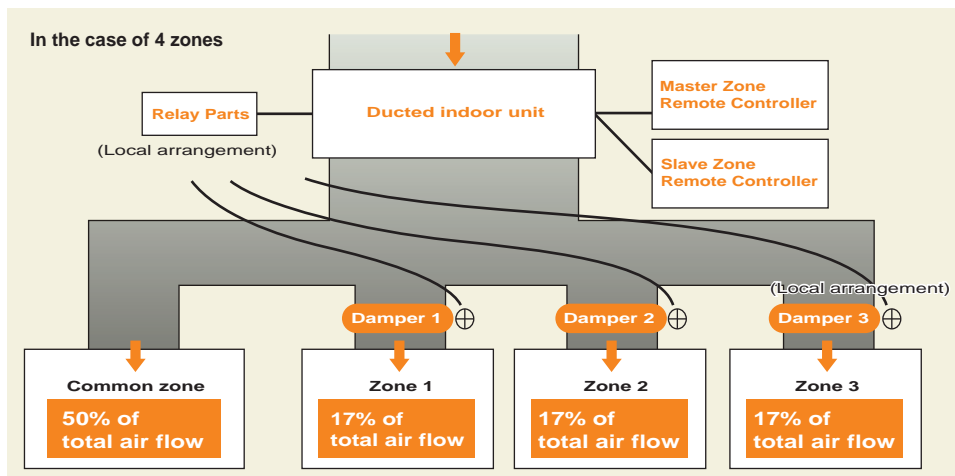
## Zone control function (Available for FDU71-140 and FDUM40-140)

These models have a zone control function that can control up to four zones.

The zones consist of one (\*1) common zone and up to three (\*2) spill zones.

The damper of each zone can be opened or closed with the exclusive remote control (RC-EXZ3A).

Timer function to open/close the damper is also available.



### Notes:

\*1: Common zone; A zone in which a damper is not installed.

\*2: Spill zone; A zone in which a damper open automatically.

Cannot control more than 4 zones.

Procure relevant parts such as relay parts, dampers, ducts, and wirings locally.

Design the duct so that each the common zone and the spill zones equal 50% of total air flow.

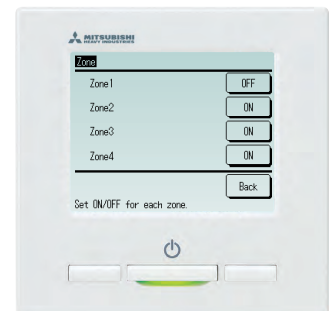
Ducts in the spill zones should have equal static pressure.

## RC-EXZ3A

### Top display



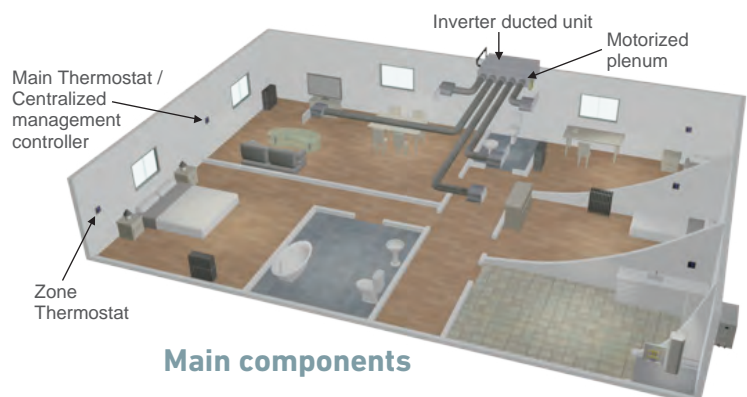
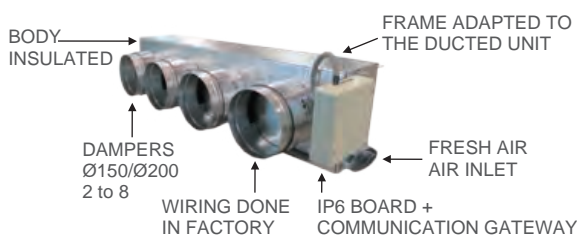
### Zone menu



## Round Duct Adapter (Available for FDU71~140 and FDUM40~140)

**AIRZONE** Company: AIRZONE  
URL: <http://www.airzone.es>

All-in-one solution: the whole zoning system in a plug&play device perfectly adapted to the indoor DX unit

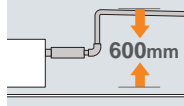


### Main components



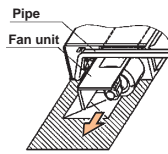
## Enhanced Installation Workability

600mm Drain Pump is mounted in FDU71/100/125/140.  
The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



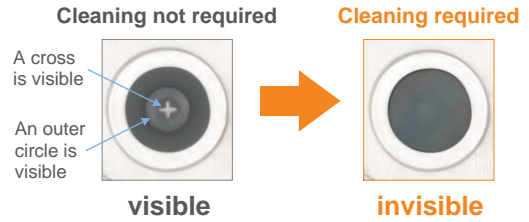
## Improvement of the Serviceability

Fan unit (impeller and motor) can be pulled out from the right side of the unit. Maintenance can be carried out from the right side or the bottom side of the unit.



## Transparent Inspection Window

Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan.



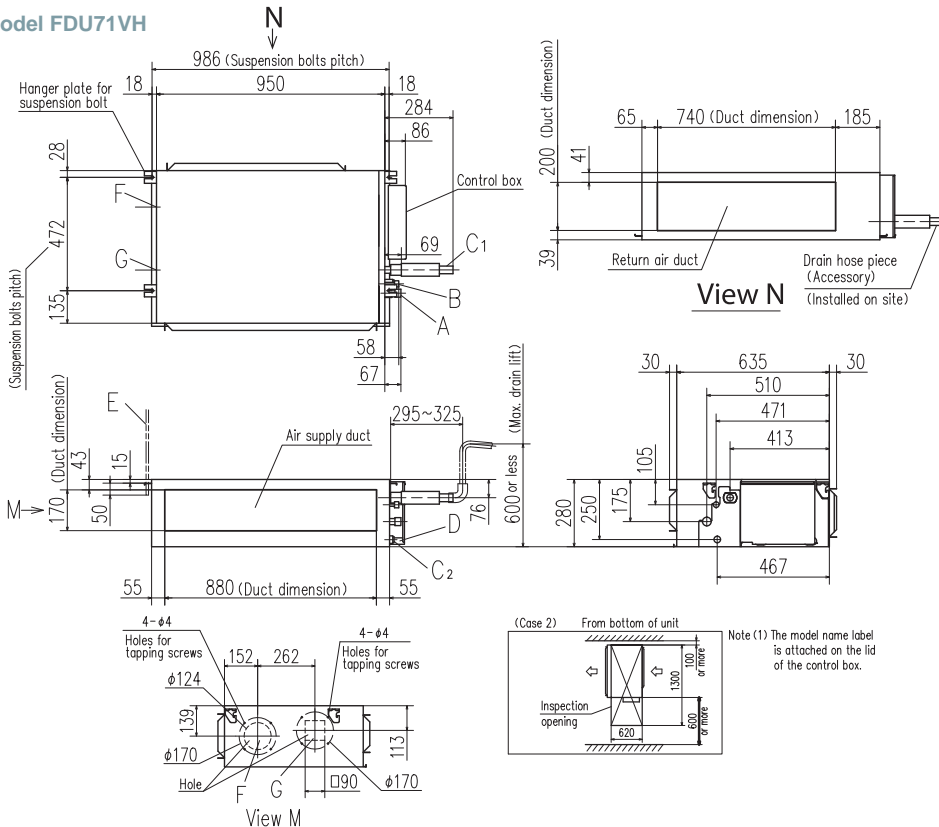
## OUTDOOR UNIT

|                             |  | Hyper Inverter       |                   |
|-----------------------------|--|----------------------|-------------------|
| FDC                         |  | 71VNX-W              | 100~140VN(S)X-W   |
|                             |  | 71VNX                | 100~140VN(S)X     |
| model                       |  |                      |                   |
| Chargeless                  |  | 30m                  |                   |
| Height x Width x Depth (mm) |  | 750 x 880(+88) x 340 | 1,300 x 970 x 370 |

|                             |  | Micro Inverter  |                   |                   | Standard Inverter    |                      |                 |
|-----------------------------|--|-----------------|-------------------|-------------------|----------------------|----------------------|-----------------|
| FDC                         |  | 100~140VN(S)A-W | —                 | 200•250•280VSA-W  | 71VNP-W              | 90•100VNP-W          | 125VNP-W        |
|                             |  | 100~140VN(S)A   | 200VSA            | 250VSA            | 71VNP                | 90VNP1               | 100VNP          |
| model                       |  |                 |                   |                   |                      |                      |                 |
| Chargeless                  |  | 30m             |                   |                   | 15m                  |                      |                 |
| Height x Width x Depth (mm) |  | 845 x 970 x 370 | 1,300 x 970 x 370 | 1,505 x 970 x 370 | 640 x 800(+71) x 290 | 750 x 880(+88) x 340 | 845 x 970 x 370 |

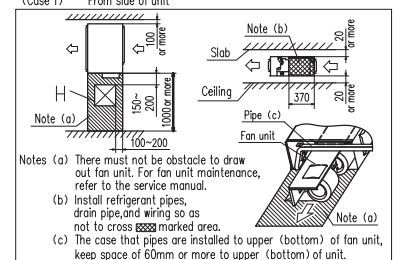
## DIMENSIONS (Unit:mm) - FDU -

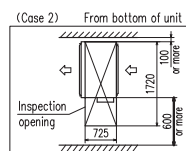
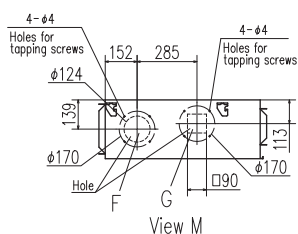
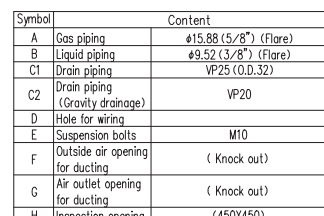
### Model FDU71VH



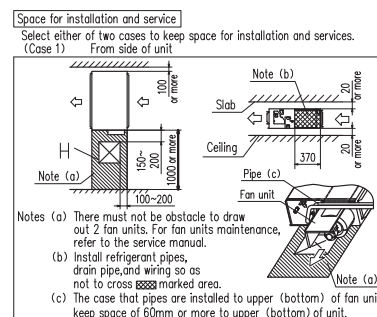
| Symbol | Content   |
|--------|---|
| A      | Gas piping<br>#15.88 (5/8") (Flare)               |
| B      | Liquid piping<br>#9.52 (3/8") (Flare)             |
| C1     | Drain piping<br>VP25 (O.D.32)                     |
| C2     | Drain piping<br>(Gravity drainage)<br>VP20        |
| D      | Hole for wiring                                   |
| E      | Suspension bolts<br>M10                           |
| F      | Outside air opening<br>for ducting<br>(Knock out) |
| G      | Air outlet opening<br>for ducting<br>(Knock out)  |
| H      | Inspection opening<br>(450X450)                   |

Space for installation and service  
Select either of two cases to keep space for installation and services.  
(Case 1) From side of unit





Note (1) The model name label is attached on the lid of the control box.



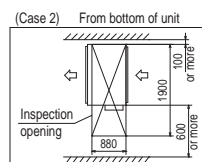
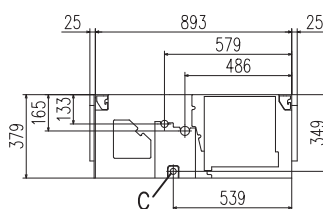
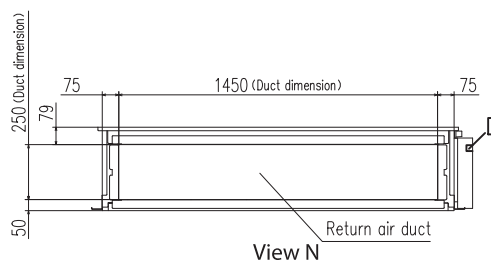
Technical drawing of the Hanger plate for suspension bolt (Figure 10). The drawing shows a top view and a side view.

**Top View Dimensions:**

- Overall width: 1600
- Overall height: 831
- Width segments: 17 (left), 1634 (Suspension bolts pitch) (middle), 17 (right)
- Height segments: 31 (left), 831 (Suspension bolts pitch) (middle), 31 (right)
- Control box: Located on the right side, with a width of 85.
- Labels A and B: Point to specific components on the right side.

**Side View Dimensions:**

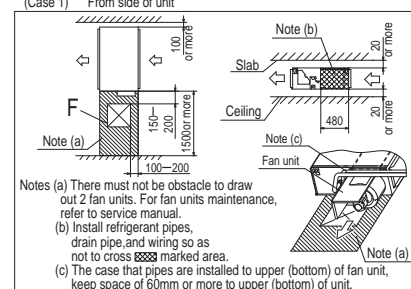
- Overall height: 50
- Overall width: 1450 (Duct dimension)
- Width segments: 75 (left), 1450 (Duct dimension) (middle), 75 (right)
- Height segments: 50 (top), 6 (middle), 50 (bottom)
- Labels: "Air supply duct" and "E" point to the duct and a component on the left side, respectively.



Note(1) The model name label is attached on the lid of the control box.

| Symbol | Content                            |                        |                        |
|--------|------------------------------------|------------------------|------------------------|
|        | MODEL                              | 200                    | 250, 280               |
| A      | Gas piping                         | ø25.4 (1") (Brazing)   |                        |
| B      | Liquid piping                      | ø9.52 (3/8") (Brazing) | ø12.7 (1/2") (Brazing) |
| C      | Drain piping<br>(Gravity drainage) | VP25 (O.D.32)          |                        |
| D      | Hole for wiring                    |                        |                        |
| E      | Suspension bolts                   | M10                    |                        |
| F      | Inspection hole                    | (450X450)              |                        |

**Space for installation and service**  
Select either of two cases to keep space for installation and services.  
(Case 1) From side of unit



## SPECIFICATIONS -FDU-

| R32                                 |            |                              | HyperInverter  |                     |                     |                     |
|-------------------------------------|------------|------------------------------|--|---------------------|---------------------|---------------------|
| Set model name                      |            |                              | FDU71VNXWVH  | FDU100VNXWVH        | FDU125VNXWVH        | FDU140VNXWVH        |
| Indoor unit                         |            |                              | FDU71VH  | FDU100VH            | FDU125VH            | FDU140VH            |
| Outdoor unit                        |            |                              | FDC71VNX-W   | FDC100VNX-W         | FDC125VNX-W         | FDC140VNX-W         |
| Power source                        |            |                              | 1 Phase 220-240V, 50Hz / 220V, 60Hz                  |                     |                     |                     |
| Nominal cooling capacity (Min~Max)  |            | kW                           | 7.1 ( 3.2 ~ 8.0 )                                    | 10.0 ( 3.5 ~ 11.2 ) | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |            | kW                           | 8.0 ( 3.6 ~ 9.0 )                                    | 11.2 ( 2.7 ~ 12.5 ) | 14.0 ( 2.7 ~ 17.0 ) | 16.0 ( 2.7 ~ 18.0 ) |
| Power consumption                   |            | Cooling/Heating<br>kW        | 1.77 / 1.78  | 2.59 / 2.63         | 3.49 / 3.61         | 4.22 / 4.22         |
| EER/COP                             |            | Cooling/Heating              | 4.01 / 4.49  | 3.86 / 4.26         | 3.58 / 3.88         | 3.32 / 3.79         |
| Inrush current                      |            | A                            | 5  | 5                   | 5                   | 5                   |
| Max. current                        |            |                              | 20   | 26                  | 28                  | 30                  |
| Sound power level*1                 | Indoor     | Cooling/Heating              | 65 / 65  | 65 / 65             | 67 / 67             | 70 / 70             |
|                                     | Outdoor    | Cooling/Heating              | 66 / 66  | 67 / 67             | 68 / 70             | 69 / 71             |
| Sound pressure level*1              | Indoor     | Cooling (P-Hi/Hi/Me/Lo)      | dB(A)<br>38 / 33 / 29 / 25                           | 44 / 38 / 36 / 30   | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     |            | Heating (P-Hi/Hi/Me/Lo)      |  |                     |                     |                     |
|                                     | Outdoor    | Cooling/Heating              | 51 / 51  | 53 / 51             | 53 / 54             | 54 / 54             |
|                                     |            | Cooling (P-Hi/Hi/Me/Lo)      | 24 / 19 / 15 / 10                                    | 36 / 28 / 25 / 19   | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
| Air flow                            | Indoor     | Heating (P-Hi/Hi/Me/Lo)      | m³/min<br>24 / 19 / 15 / 10                          | 36 / 28 / 25 / 19   | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
|                                     | Outdoor    | Cooling/Heating              |  |                     |                     |                     |
| External static pressure*2          |            | Pa                           | Standard:35 Max:200                                  |                     | Standard:60 Max:200 |                     |
| Exterior dimensions                 | Indoor     | HeightxWidthxDepth           | mm<br>280 x 950 x 635<br>750 x 880(+88) x 340        | 280 x 1,370 x 740   |                     |                     |
|                                     | Outdoor    |                              |  | 1,300 x 970 x 370   |                     |                     |
| Net weight                          | Indoor     | kg                           | 34<br>54   |                     |                     |                     |
|                                     | Outdoor    |                              | 60<br>97   |                     |                     |                     |
| Ref.piping size                     | Liquid/Gas | ømm                          | 9.52(3/8") / 15.88(5/8")                             |                     |                     |                     |
| Refrigerant line (one way) length   |            | m                            | Max.50   |                     | Max.100             |                     |
| Vertical height differences         |            | Outdoor is higher/lower<br>m | Max.30 / Max.15                                      |                     | Max.50 / Max.15     |                     |
| Outdoor operating temperature range | Cooling    | °CDB                         | -15~50*3   |                     |                     |                     |
|                                     | Heating    | °CWB                         | -20~20   |                     |                     |                     |
| Air filter                          |            |                              | Procure locally                                      |                     |                     |                     |
| Remote control (option)             |            |                              | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2 |                     |                     |                     |

| R32                                 |                 |                         | HyperInverter                                     |                          |                     |                   |
|-------------------------------------|-----------------|-------------------------|---|--------------------------|---------------------|-------------------|
| Set model name                      |                 |                         | FDU100VSXWVH                                      | FDU125VSXWVH             | FDU140VSXWVH        |                   |
| Indoor unit                         |                 |                         | FDU100VH  | FDU125VH                 | FDU140VH            |                   |
| Outdoor unit                        |                 |                         | FDC100VSX-W                                       | FDC125VSX-W              | FDC140VSX-W         |                   |
| Power source                        |                 |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                          |                     |                   |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 10.0 ( 3.5 ~ 11.2 )                               | 12.5 ( 3.5 ~ 14.0 )      | 14.0 ( 3.5 ~ 16.0 ) |                   |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 11.2 ( 2.7 ~ 16.0 )                               | 14.0 ( 2.7 ~ 18.0 )      | 16.0 ( 2.7 ~ 20.0 ) |                   |
| Power consumption                   | Cooling/Heating | kW                      | 2.59 / 2.63                                       | 3.49 / 3.61              | 4.22 / 4.22         |                   |
| EER/COP                             | Cooling/Heating |                         | 3.86 / 4.26                                       | 3.58 / 3.88              | 3.32 / 3.79         |                   |
| Inrush current                      |                 | A                       | 5   | 5                        | 5                   |                   |
| Max. current                        |                 |                         | 15  | 16                       | 17                  |                   |
| Sound power level*1                 | Indoor          | Cooling/Heating         | dB(A)   | 65 / 65                  | 67 / 67             | 70 / 70           |
|                                     | Outdoor         |                         |   | Cooling/Heating          | 67 / 67             | 68 / 70           |
| Sound pressure level*1              | Indoor          | Cooling (P-Hi/Hi/Me/Lo) |   | 44 / 38 / 36 / 30        | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30 |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) |   | 44 / 38 / 36 / 30        | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30 |
| Air flow                            | Outdoor         | Cooling/Heating         | 53 / 51   | 53 / 54                  | 54 / 54             |                   |
|                                     |                 | Cooling (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20        | 48 / 35 / 28 / 22   |                   |
|                                     | Indoor          | Heating (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20        | 48 / 35 / 28 / 22   |                   |
|                                     |                 | Outdoor                 | Cooling/Heating                                   | 100 / 100                | 100 / 100           | 100 / 100         |
| External static pressure*2          |                 | Pa                      | Standard:60 Max:200                               |                          |                     |                   |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | mm  | 280 x 1,370 x 740        |                     |                   |
|                                     | Outdoor         |                         |   | 1,300 x 970 x 370        |                     |                   |
| Net weight                          | Indoor          |                         | kg  | 54                       |                     |                   |
|                                     | Outdoor         |                         |   | 99                       |                     |                   |
| Ref.piping size                     | Liquid/Gas      |                         | ømm   | 9.52(3/8") / 15.88(5/8") |                     |                   |
| Refrigerant line (one way) length   |                 |                         | m   | Max.100                  |                     |                   |
| Vertical height differences         |                 | Outdoor is higher/lower | m   | Max.50 / Max.15          |                     |                   |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~50,*3   |                          |                     |                   |
|                                     | Heating         | °CWB                    | -20~20  |                          |                     |                   |
| Air filter                          |                 |                         | Procure locally                                   |                          |                     |                   |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                          |                     |                   |

### NOTES:

The data are measured under the following conditions(R32:ISO-T1, -H1 / R410A:ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa.

\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

| R410A                               |            |                         |   | Hyper Inverter                                    |                     |                     |                     |
|-------------------------------------|------------|-------------------------|---|---|---------------------|---------------------|---------------------|
| Set model name                      |            |                         |   | FDU71VNXVH  | FDU100VNXVH         | FDU125VNXVH         | FDU140VNXVH         |
| Indoor unit                         |            |                         |   | FDU71VH   | FDU100VH            | FDU125VH            | FDU140VH            |
| Outdoor unit                        |            |                         |   | FDC71VNX  | FDC100VNX           | FDC125VNX           | FDC140VNX           |
| Power source                        |            |                         |   | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                     |                     |                     |
| Nominal cooling capacity (Min~Max)  |            | kW                      |   | 7.1 ( 3.2 ~ 8.0 )                                 | 10.0 ( 4.0 ~ 11.2 ) | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |            | kW                      |   | 8.0 ( 3.6 ~ 9.0 )                                 | 11.2 ( 4.0 ~ 12.5 ) | 14.0 ( 4.0 ~ 17.0 ) | 16.0 ( 4.0 ~ 18.0 ) |
| Power consumption                   |            | Cooling/Heating         | kW                                      | 2.05 / 2.01                                       | 2.68 / 3.02         | 3.49 / 3.77         | 4.28 / 4.42         |
| EER/COP                             |            | Cooling/Heating         |   | 3.46 / 3.98                                       | 3.73 / 3.71         | 3.58 / 3.71         | 3.27 / 3.62         |
| Inrush current                      |            | A                       |   | 5   | 5                   | 5                   | 5                   |
| Max. current                        |            |                         |   | 17  | 25                  | 29                  | 30                  |
| Sound power level*1                 | Indoor     | Cooling/Heating         | dB(A)                                   | 65 / 65   | 65 / 65             | 67 / 67             | 70 / 70             |
|                                     | Outdoor    | Cooling/Heating         |   | 66 / 66   | 70 / 70             | 70 / 70             | 72 / 72             |
| Sound pressure level*1              | Indoor     | Cooling (P-Hi/Hi/Me/Lo) |   | 38 / 33 / 29 / 25                                 | 44 / 38 / 36 / 30   | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     |            | Heating (P-Hi/Hi/Me/Lo) |   | 38 / 33 / 29 / 25                                 | 44 / 38 / 36 / 30   | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
| Air flow                            | Outdoor    | Cooling/Heating         |   | 51 / 48   | 48 / 50             | 48 / 50             | 49 / 52             |
|                                     |            | Cooling (P-Hi/Hi/Me/Lo) |   | 24 / 19 / 15 / 10                                 | 36 / 28 / 25 / 19   | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
|                                     | Indoor     | Heating (P-Hi/Hi/Me/Lo) | 24 / 19 / 15 / 10                       | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |                     |
|                                     |            | Outdoor                 | Cooling/Heating                         | 60 / 50   | 100 / 100           | 100 / 100           | 100 / 100           |
| External static pressure*2          |            | Pa                      | Standard:35 Max:200 Standard:60 Max:200 |   |                     |                     |                     |
| Exterior dimensions                 | Indoor     | HeightxWidthxDepth      | mm                                      | 280 x 950 x 635                                   |                     |                     |                     |
|                                     | Outdoor    |                         |   | 750 x 880(+88) x 340                              |                     |                     |                     |
| Net weight                          | Indoor     |                         | kg                                      | 34  |                     |                     |                     |
|                                     | Outdoor    |                         |   | 60  |                     |                     |                     |
| Ref.piping size                     | Liquid/Gas |                         | ømm                                     | 9.52(3/8") / 15.88(5/8")                          |                     |                     |                     |
| Refrigerant line (one way) length   |            | m                       | Max.50                                  | Max.100   |                     |                     |                     |
| Vertical height differences         |            | Outdoor is higher/lower | m                                       | Max.30 / Max.15                                   |                     |                     |                     |
| Outdoor operating temperature range | Cooling    | °CDB                    | -15~43*3                                |   |                     |                     |                     |
|                                     | Heating    | °CWB                    | -20~20                                  |   |                     |                     |                     |
| Air filter                          |            |                         |   | Procure locally                                   |                     |                     |                     |
| Remote control (option)             |            |                         |   | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |                     |                     |

| R410A                                  |                         |                         |                         | Hyper Inverter                                    |                     |                   |
|--|-------------------------|-------------------------|-------------------------|---|---------------------|-------------------|
| Set model name                         |                         |                         |                         | FDU100VSXVH                                       | FDU125VSXVH         | FDU140VSXVH       |
| Indoor unit                            |                         |                         |                         | FDU100VH  | FDU125VH            | FDU140VH          |
| Outdoor unit                           |                         |                         |                         | FDC100VSX   | FDC125VSX           | FDC140VSX         |
| Power source                           |                         |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                     |                   |
| Nominal cooling capacity (Min~Max)     |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )     | 12.5 ( 5.0 ~ 14.0 )                               | 14.0 ( 5.0 ~ 16.0 ) |                   |
| Nominal heating capacity (Min~Max)     |                         | kW                      | 11.2 ( 4.0 ~ 16.0 )     | 14.0 ( 4.0 ~ 18.0 )                               | 16.0 ( 4.0 ~ 20.0 ) |                   |
| Power consumption                      | Cooling/Heating         | kW                      | 2.68 / 3.02             | 3.49 / 3.77                                       | 4.28 / 4.42         |                   |
| EER/COP                                | Cooling/Heating         |                         | 3.73 / 3.71             | 3.58 / 3.71                                       | 3.27 / 3.62         |                   |
| Inrush current                         |                         | A                       | 5                       | 5   | 5                   |                   |
| Max. current                           |                         |                         | 16                      | 18  | 19                  |                   |
| Sound power level* <sup>1</sup>        | Indoor                  | dB(A)                   | 65 / 65                 | 67 / 67   | 70 / 70             |                   |
|  | Outdoor                 |                         | Cooling/Heating         | 70 / 70   | 70 / 70             | 72 / 72           |
| Sound pressure level* <sup>1</sup>     | Indoor                  |                         | Cooling (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30 |
|  |                         |                         | Heating (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30 |
| Air flow                               | Outdoor                 |                         | Cooling/Heating         | 48 / 50   | 48 / 50             | 49 / 52           |
|  |                         |                         | Indoor                  | Cooling (P-Hi/Hi/Me/Lo)                           | 36 / 28 / 25 / 19   | 39 / 32 / 26 / 20 |
|  | Outdoor                 | Heating (P-Hi/Hi/Me/Lo) |                         | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22 |
|  |                         | Cooling/Heating         |                         | m³/min  | 100 / 100           | 100 / 100         |
| External static pressure* <sup>2</sup> |                         | Pa                      | Standard:60 Max:200     |   |                     |                   |
| Exterior dimensions                    | Indoor                  | HeightxWidthxDepth      | mm                      | 280 x 1,370 x 740                                 |                     |                   |
|  | Outdoor                 |                         |                         | 1,300 x 970 x 370                                 |                     |                   |
| Net weight                             | Indoor                  |                         | kg                      | 54  |                     |                   |
|  | Outdoor                 |                         |                         | 105   |                     |                   |
| Ref.piping size                        | Liquid/Gas              |                         | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                     |                   |
| Refrigerant line (one way) length      |                         |                         | m                       | Max.100   |                     |                   |
| Vertical height differences            | Outdoor is higher/lower |                         | m                       | Max.30 / Max.15                                   |                     |                   |
| Outdoor operating temperature range    | Cooling                 | °CDB                    | -15~43* <sup>3</sup>    |   |                     |                   |
|  | Heating                 | °CWB                    | -20~20                  |   |                     |                   |
| Air filter                             |                         |                         |                         | Procure locally                                   |                     |                   |
| Remote control (option)                |                         |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |                   |



## SPECIFICATIONS -FDU-

| R32                                 |                         |                         | Micro Inverter                                    |                     |                     |
|-------------------------------------|-------------------------|-------------------------|---|---------------------|---------------------|
| Set model name                      |                         |                         | FDU100VNAVH                                       | FDU125VNAVH         | FDU140VNAVH         |
| Indoor unit                         |                         |                         | FDU100VH  | FDU125VH            | FDU140VH            |
| Outdoor unit                        |                         |                         | FDC100VNA-W                                       | FDC125VNA-W         | FDC140VNA-W         |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                     |                     |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 12.5 )                               | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating         | kW                      | 2.99 / 2.66                                       | 4.36 / 3.69         | 5.13 / 4.21         |
| EER/COP                             | Cooling/Heating         |                         | 3.35 / 4.21                                       | 2.87 / 3.79         | 2.65 / 3.68         |
| Inrush current                      |                         | A                       | 5   | 5                   | 5                   |
| Max. current                        |                         |                         | 26  | 26                  | 27                  |
| Sound power level*1                 | Indoor                  | Cooling/Heating         | 65 / 65   | 67 / 67             | 70 / 70             |
|                                     | Outdoor                 | Cooling/Heating         | 69 / 70   | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     | Outdoor                 | Cooling/Heating         | 54 / 55   | 54 / 56             | 56 / 58             |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
| Air flow                            | Indoor                  | Heating (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
|                                     | Outdoor                 | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
| External static pressure*2          |                         | Pa                      | Standard:60 Max:200                               |                     |                     |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | 280 x 1,370 x 740                                 |                     |                     |
|                                     | Outdoor                 |                         | 845 x 970 x 370                                   |                     |                     |
| Net weight                          | Indoor                  |                         | 54  |                     |                     |
|                                     | Outdoor                 |                         | 77  |                     |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                     |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.50  |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.50 / Max.15                                   |                     |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50*3  |                     |                     |
|                                     | Heating                 | °CWB                    | -20~20  |                     |                     |
| Air filter                          |                         |                         | Procure locally                                   |                     |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |                     |

| R32                                 |                         |                         | Micro Inverter                                    |                     |                     |
|-------------------------------------|-------------------------|-------------------------|---|---------------------|---------------------|
| Set model name                      |                         |                         | FDU100VSAVH                                       | FDU125VSAVH         | FDU140VSAVH         |
| Indoor unit                         |                         |                         | FDU100VH  | FDU125VH            | FDU140VH            |
| Outdoor unit                        |                         |                         | FDC100VSA-W                                       | FDC125VSA-W         | FDC140VSA-W         |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                     |                     |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 12.5 )                               | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating         | kW                      | 2.99 / 2.66                                       | 4.36 / 3.69         | 5.13 / 4.21         |
| EER/COP                             | Cooling/Heating         |                         | 3.35 / 4.21                                       | 2.87 / 3.79         | 2.65 / 3.68         |
| Inrush current                      |                         | A                       | 5   | 5                   | 5                   |
| Max. current                        |                         |                         | 17  | 17                  | 18                  |
| Sound power level*1                 | Indoor                  | Cooling/Heating         | 65 / 65   | 67 / 67             | 70 / 70             |
|                                     | Outdoor                 | Cooling/Heating         | 69 / 70   | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     | Outdoor                 | Cooling/Heating         | 54 / 55   | 54 / 56             | 56 / 58             |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
| Air flow                            | Indoor                  | Heating (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
|                                     | Outdoor                 | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
| External static pressure*2          |                         | Pa                      | Standard:60 Max:200                               |                     |                     |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | 280 x 1,370 x 740                                 |                     |                     |
|                                     | Outdoor                 |                         | 845 x 970 x 370                                   |                     |                     |
| Net weight                          | Indoor                  |                         | 54  |                     |                     |
|                                     | Outdoor                 |                         | 78  |                     |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                     |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.50  |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.50 / Max.15                                   |                     |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50*3  |                     |                     |
|                                     | Heating                 | °CWB                    | -20~20  |                     |                     |
| Air filter                          |                         |                         | Procure locally                                   |                     |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |                     |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / , R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa.

\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

| R32                                 |  |                         |                         | Micro Inverter                                    |  |                          |  |                     |  |
|-------------------------------------|--|-------------------------|-------------------------|---|--|--------------------------|--|---------------------|--|
| Set model name                      |  |                         |                         | FDU200VSAWVH                                      |  | FDU250VSAWVH             |  | FDU280VSAWVH        |  |
| Indoor unit                         |  |                         |                         | FDU200VH  |  | FDU250VH                 |  | FDU280VH            |  |
| Outdoor unit                        |  |                         |                         | FDC200VSA-W                                       |  | FDC250VSA-W              |  | FDC280VSA-W         |  |
| Power source                        |  |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |  |                          |  |                     |  |
| Nominal cooling capacity (Min~Max)  |  |                         |                         | kW 20.0 ( 7.2 ~ 22.4 )                            |  | 25.0 ( 7.2 ~ 28.0 )      |  | 27.0 ( 6.9 ~ 31.5 ) |  |
| Nominal heating capacity (Min~Max)  |  |                         |                         | kW 22.4 (6.5 ~ 25.0 )                             |  | 28.0 (6.7 ~ 31.5 )       |  | 30.0 (6.9 ~ 33.5 )  |  |
| Power consumption                   |  | Cooling/Heating         |                         | kW 6.15 / 5.67                                    |  | 8.25 / 7.55              |  | 9.15 / 9.12         |  |
| EER/COP                             |  | Cooling/Heating         |                         | 3.25 / 3.95                                       |  | 3.03 / 3.75              |  | 2.95 / 3.29         |  |
| Inrush current                      |  |                         |                         | A 5   |  | 5                        |  | 5                   |  |
| Max. current                        |  |                         |                         | 23  |  | 25                       |  | 25                  |  |
| Sound power level*1                 |  | Indoor                  | Cooling/Heating         | 78 / 78   |  | 78 / 78                  |  | 78 / 78             |  |
|                                     |  | Outdoor                 | Cooling/Heating         | 72 / 74   |  | 73 / 75                  |  | 75 / 77             |  |
| Sound pressure level*1              |  | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | dB(A) 52 / 50 / 47 / 45                           |  | 52 / 50 / 47 / 45        |  | 52 / 50 / 47 / 45   |  |
|                                     |  |                         | Heating (P-Hi/Hi/Me/Lo) | 52 / 50 / 47 / 44                                 |  | 52 / 50 / 47 / 44        |  | 52 / 50 / 47 / 44   |  |
|                                     |  | Outdoor                 | Cooling/Heating         | 58 / 59   |  | 58 / 62                  |  | 61 / 63             |  |
|                                     |  |                         | Cooling (P-Hi/Hi/Me/Lo) | 80 / 72 / 64 / 56                                 |  | 80 / 72 / 64 / 56        |  | 80 / 72 / 64 / 56   |  |
| Air flow                            |  | Indoor                  | Heating (P-Hi/Hi/Me/Lo) | m³/min 80 / 72 / 64 / 56                          |  | 80 / 72 / 64 / 56        |  | 80 / 72 / 64 / 56   |  |
|                                     |  |                         | Cooling/Heating         | 148 / 134   |  | 148 / 153                |  | 136 / 140           |  |
| External static pressure*2          |  |                         |                         | Pa  |  | Standard:72 Max:200      |  |                     |  |
| Exterior dimensions                 |  | Indoor                  | HeightxWidthxDepth      | mm  |  | 379 x 1,600 x 893        |  |                     |  |
|                                     |  | Outdoor                 |                         | 1,505 x 970 x 370                                 |  |                          |  |                     |  |
| Net weight                          |  | Indoor                  |                         | kg  |  | 88                       |  |                     |  |
|                                     |  | Outdoor                 |                         | 144   |  | 145                      |  | 155                 |  |
| Ref.piping size                     |  | Liquid/Gas              |                         | ømm 9.52(3/8") / 22.22(7/8")                      |  | 12.7(1/2") / 22.22(7/8") |  |                     |  |
| Refrigerant line (one way) length   |  |                         |                         | m Max.70  |  |                          |  | Max.60              |  |
| Vertical height differences         |  | Outdoor is higher/lower |                         | m   |  | Max.50*4 / Max.15        |  |                     |  |
| Outdoor operating temperature range |  | Cooling                 |                         | °CDB  |  | -15~50*3                 |  |                     |  |
|                                     |  | Heating                 |                         | °CWB  |  | -20~20                   |  |                     |  |
| Air filter                          |  |                         |                         | Procure locally                                   |  |                          |  |                     |  |
| Remote control (option)             |  |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |  |                          |  |                     |  |

| R410A                               |            |                         |                         | Micro Inverter                                    |                          |                          |                   |                     |                   |
|-------------------------------------|------------|-------------------------|-------------------------|---|--------------------------|--------------------------|-------------------|---------------------|-------------------|
| Set model name                      |            |                         |                         | FDU100VNAVH                                       |                          | FDU125VNAVH              |                   | FDU140VNAVH         |                   |
| Indoor unit                         |            |                         |                         | FDU100VH  |                          | FDU125VH                 |                   | FDU140VH            |                   |
| Outdoor unit                        |            |                         |                         | FDC100VNA   |                          | FDC125VNA                |                   | FDC140VNA           |                   |
| Power source                        |            |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                          |                          |                   |                     |                   |
| Nominal cooling capacity (Min~Max)  |            |                         |                         | kW 10.0 ( 4.0 ~ 11.2 )                            |                          | 12.5 ( 5.0 ~ 14.0 )      |                   | 13.6 ( 5.0 ~ 14.5 ) |                   |
| Nominal heating capacity (Min~Max)  |            |                         |                         | kW 11.2 ( 4.0 ~ 12.5 )                            |                          | 14.0 ( 4.0 ~ 16.0 )      |                   | 15.5 ( 4.0 ~ 16.5 ) |                   |
| Power consumption                   |            | Cooling/Heating         |                         | kW 2.84 / 2.78                                    |                          | 4.36 / 3.69              |                   | 4.93 / 4.21         |                   |
| EER/COP                             |            | Cooling/Heating         |                         | 3.52 / 4.03                                       |                          | 2.87 / 3.79              |                   | 2.76 / 3.68         |                   |
| Inrush current                      |            |                         |                         | A 5   |                          | 5                        |                   | 5                   |                   |
| Max. current                        |            |                         |                         | 26  |                          | 26                       |                   | 27                  |                   |
| Sound power level*1                 | Indoor     | Cooling/Heating         |                         | 65 / 65   |                          | 67 / 67                  |                   | 70 / 70             |                   |
|                                     | Outdoor    | Cooling/Heating         |                         | 70 / 70   |                          | 71 / 71                  |                   | 73 / 73             |                   |
| Sound pressure level*1              | Indoor     | Cooling (P-Hi/Hi/Me/Lo) |                         | dB(A) 44 / 38 / 36 / 30                           |                          | 45 / 40 / 34 / 29        |                   | 47 / 40 / 35 / 30   |                   |
|                                     |            | Heating (P-Hi/Hi/Me/Lo) |                         | 44 / 38 / 36 / 30                                 |                          | 45 / 40 / 34 / 29        |                   | 47 / 40 / 35 / 30   |                   |
|                                     | Outdoor    | Cooling/Heating         |                         | 54 / 56   |                          | 55 / 57                  |                   | 57 / 59             |                   |
|                                     |            | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) |   | m³/min 36 / 28 / 25 / 19 |                          | 39 / 32 / 26 / 20 |                     | 48 / 35 / 28 / 22 |
| Heating (P-Hi/Hi/Me/Lo)             |            |                         | 36 / 28 / 25 / 19       |   | 39 / 32 / 26 / 20        |                          | 48 / 35 / 28 / 22 |                     |                   |
| Outdoor                             |            |                         |                         | Cooling/Heating                                   |                          | 75 / 73                  |                   | 75 / 73             |                   |
| External static pressure*2          |            |                         |                         | Pa  |                          | Standard:60 Max:200      |                   |                     |                   |
| Exterior dimensions                 | Indoor     | HeightxWidthxDepth      |                         | mm  |                          | 280 x 1,370 x 740        |                   |                     |                   |
|                                     | Outdoor    |                         |                         |   |                          | 845 x 970 x 370          |                   |                     |                   |
| Net weight                          | Indoor     |                         |                         | kg  |                          | 54                       |                   |                     |                   |
|                                     | Outdoor    |                         |                         |   |                          | 80                       |                   |                     |                   |
| Ref.piping size                     | Liquid/Gas |                         |                         | ømm   |                          | 9.52(3/8") / 15.88(5/8") |                   |                     |                   |
| Refrigerant line (one way) length   |            |                         |                         | m   |                          | Max.50                   |                   |                     |                   |
| Vertical height differences         |            | Outdoor is higher/lower |                         | m   |                          | Max.50 / Max.15          |                   |                     |                   |
| Outdoor operating temperature range | Cooling    |                         | °CDB                    |   | -15~50*3                 |                          |                   |                     |                   |
|                                     | Heating    |                         | °CWB                    |   | -20~20                   |                          |                   |                     |                   |
| Air filter                          |            |                         |                         | Procure locally                                   |                          |                          |                   |                     |                   |
| Remote control (option)             |            |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                          |                          |                   |                     |                   |

## SPECIFICATIONS -FDU-

| R410A                               |         | Micro Inverter                                    |                          |                          |
|-------------------------------------|---------|---|--------------------------|--------------------------|
| Set model name                      |         | FDU100VSAVH                                       | FDU125VSAVH              | FDU140VSAVH              |
| Indoor unit                         |         | FDU100VH  | FDU125VH                 | FDU140VH                 |
| Outdoor unit                        |         | FDC100VSA   | FDC125VSA                | FDC140VSA                |
| Power source                        |         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                          |                          |
| Nominal cooling capacity (Min~Max)  |         | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 )      | 13.6 ( 5.0 ~ 14.5 )      |
| Nominal heating capacity (Min~Max)  |         | 11.2 ( 4.0 ~ 12.5 )                               | 14.0 ( 4.0 ~ 16.0 )      | 15.5 ( 4.0 ~ 16.5 )      |
| Power consumption                   |         | 2.84 / 2.78                                       | 4.36 / 3.69              | 4.93 / 4.21              |
| EER/COP                             |         | 3.52 / 4.03                                       | 2.87 / 3.79              | 2.76 / 3.68              |
| Inrush current                      |         | 5   | 5                        | 5                        |
| Max. current                        |         | 17  | 17                       | 18                       |
| Sound power level*1                 | Indoor  | 65 / 65   | 67 / 67                  | 70 / 70                  |
|                                     | Outdoor | 70 / 70   | 71 / 71                  | 73 / 73                  |
| Sound pressure level*1              | Indoor  | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29        | 47 / 40 / 35 / 30        |
|                                     | Outdoor | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29        | 47 / 40 / 35 / 30        |
| Air flow                            | Indoor  | 54 / 56   | 55 / 57                  | 57 / 59                  |
|                                     | Outdoor | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20        | 48 / 35 / 28 / 22        |
| External static pressure*2          |         | Standard:60 Max:200                               | Standard:60 Max:200      | Standard:60 Max:200      |
| Exterior dimensions                 | Indoor  | 280 x 1,370 x 740                                 | 280 x 1,370 x 740        | 280 x 1,370 x 740        |
|                                     | Outdoor | 845 x 970 x 370                                   | 845 x 970 x 370          | 845 x 970 x 370          |
| Net weight                          | Indoor  | 54  | 54                       | 54                       |
|                                     | Outdoor | 82  | 82                       | 82                       |
| Ref.piping size                     |         | 9.52(3/8") / 15.88(5/8")                          | 9.52(3/8") / 15.88(5/8") | 9.52(3/8") / 15.88(5/8") |
| Refrigerant line (one way) length   |         | Max.50  | Max.50                   | Max.50                   |
| Vertical height differences         |         | Max.50 / Max.15                                   | Max.50 / Max.15          | Max.50 / Max.15          |
| Outdoor operating temperature range | Cooling | -15~50*3  | -15~50*3                 | -15~50*3                 |
|                                     | Heating | -20~20  | -20~20                   | -20~20                   |
| Air filter                          |         | Procure locally                                   |                          |                          |
| Remote control (option)             |         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                          |                          |

| R410A                               |         | Micro Inverter                                    |                          |  |
|-------------------------------------|---------|---|--------------------------|--|
| Set model name                      |         | FDU200VSAVH                                       | FDU250VSAVH              |  |
| Indoor unit                         |         | FDU200VH  | FDU250VH                 |  |
| Outdoor unit                        |         | FDC200VSA   | FDC250VSA                |  |
| Power source                        |         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                          |  |
| Nominal cooling capacity (Min~Max)  |         | 19.0 ( 5.2 ~ 22.4 )                               | 24.0 ( 6.9 ~ 28.0 )      |  |
| Nominal heating capacity (Min~Max)  |         | 22.4 ( 3.3 ~ 25.0 )                               | 27.0 ( 5.5 ~ 31.5 )      |  |
| Power consumption                   |         | 6.15 / 6.03                                       | 7.98 / 7.20              |  |
| EER/COP                             |         | 3.09 / 3.71                                       | 3.01 / 3.75              |  |
| Inrush current                      |         | 5   | 5                        |  |
| Max. current                        |         | 25  | 27                       |  |
| Sound power level*1                 | Indoor  | 78 / 78   | 78 / 78                  |  |
|                                     | Outdoor | 72 / 74   | 73 / 75                  |  |
| Sound pressure level*1              | Indoor  | 52 / 50 / 47 / 45                                 | 52 / 50 / 47 / 45        |  |
|                                     | Outdoor | 52 / 50 / 47 / 44                                 | 52 / 50 / 47 / 44        |  |
| Air flow                            | Indoor  | 58 / 59   | 59 / 62                  |  |
|                                     | Outdoor | 80 / 72 / 64 / 56                                 | 80 / 72 / 64 / 56        |  |
| External static pressure*2          |         | Standard:72 Max:200                               | Standard:72 Max:200      |  |
| Exterior dimensions                 | Indoor  | 379 x 1,600 x 893                                 | 379 x 1,600 x 893        |  |
|                                     | Outdoor | 1,300 x 970 x 370                                 | 1,505 x 970 x 370        |  |
| Net weight                          | Indoor  | 88  | 88                       |  |
|                                     | Outdoor | 115   | 143                      |  |
| Ref.piping size                     |         | 9.52(3/8") / 22.22(7/8")                          | 12.7(1/2") / 22.22(7/8") |  |
| Refrigerant line (one way) length   |         | Max.70  | Max.70                   |  |
| Vertical height differences         |         | Max.30 / Max.15                                   | Max.30 / Max.15          |  |
| Outdoor operating temperature range | Cooling | -15~50*3  | -15~50*3                 |  |
|                                     | Heating | -15~20  | -15~20                   |  |
| Air filter                          |         | Procure locally                                   |                          |  |
| Remote control (option)             |         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                          |  |

### NOTES:

- The data are measured under the following conditions(R32 : ISO-T1, -H1 / , R410A : ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa.  
\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

| R32                                 |            |                         | Standard Inverter                                 |                      |                          |                      |                   |
|-------------------------------------|------------|-------------------------|---|----------------------|--------------------------|----------------------|-------------------|
| Set model name                      |            |                         | FDU71VNPVH  | FDU90VNPVH           | FDU100VNPVH              | FDU125VNPVH          |                   |
| Indoor unit                         |            |                         | FDU71VH   | FDU100VH             | FDU100VH                 | FDU125VH             |                   |
| Outdoor unit                        |            |                         | FDC71VNP-W  | FDC90VNP-W           | FDC100VNP-W              | FDC125VNP-W          |                   |
| Power source                        |            |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                      |                          |                      |                   |
| Nominal cooling capacity (Min~Max)  |            | kW                      | 7.1 ( 1.5 ~ 7.3 )                                 | 9.0 ( 2.1 ~ 9.5 )    | 10.0 ( 2.1 ~ 10.2 )      | 12.1 ( 5.0 ~ 12.1 )  |                   |
| Nominal heating capacity (Min~Max)  |            | kW                      | 7.1 ( 1.1 ~ 7.3 )                                 | 9.0 ( 1.7 ~ 9.5 )    | 10.0 ( 1.7 ~ 10.4 )      | 12.1 ( 4.0 ~ 13.3 )  |                   |
| Power consumption                   |            | Cooling/Heating kW      | 2.60 / 1.89                                       | 2.62 / 1.98          | 3.08 / 2.45              | 3.85 / 3.28          |                   |
| EER/COP                             |            | Cooling/Heating         | 2.73. / 3.76                                      | 3.44 / 4.55          | 3.25 / 4.08              | 3.14 / 3.69          |                   |
| Inrush current                      |            | A                       | 5   | 5                    | 5                        | 5                    |                   |
| Max. current                        |            |                         | 15.8  | 19                   | 19                       | 20                   |                   |
| Sound power level*1                 | Indoor     | dB(A)                   | 65 / 65   | 65 / 65              | 65 / 65                  | 67 / 67              |                   |
|                                     | Outdoor    |                         | Cooling/Heating                                   | 67 / 67              | 67 / 66                  | 68 / 67              | 73 / 72           |
| Sound pressure level*1              | Indoor     |                         | Cooling (P-Hi/Hi/Me/Lo)                           | 38 / 33 / 29 / 25    | 44 / 38 / 36 / 30        | 44 / 38 / 36 / 30    | 45 / 40 / 34 / 29 |
|                                     |            |                         | Heating (P-Hi/Hi/Me/Lo)                           | 38 / 33 / 29 / 25    | 44 / 38 / 36 / 30        | 44 / 38 / 36 / 30    | 45 / 40 / 34 / 29 |
| Air flow                            | Outdoor    | Cooling/Heating         | 54 / 54   | 55 / 53              | 56 / 54                  | 57 / 57              |                   |
|                                     |            | Cooling (P-Hi/Hi/Me/Lo) | 24 / 19 / 15 / 10                                 | 36 / 28 / 25 / 19    | 36 / 28 / 25 / 19        | 39 / 32 / 26 / 20    |                   |
|                                     |            | Indoor                  | Heating (P-Hi/Hi/Me/Lo)                           | 24 / 19 / 15 / 10    | 36 / 28 / 25 / 19        | 36 / 28 / 25 / 19    | 39 / 32 / 26 / 20 |
|                                     |            | Outdoor                 | Cooling/Heating                                   | 42 / 42              | 59 / 55                  | 63 / 55              | 75 / 79           |
| External static pressure*2          |            | Pa                      | Standard:35 Max:200                               | Standard:60 Max:200  |                          |                      |                   |
| Exterior dimensions                 | Indoor     | HeightxWidthxDepth      | mm  | 280 x 950 x 635      |                          |                      |                   |
|                                     | Outdoor    |                         |   | 280 x 1,370 x 740    |                          |                      |                   |
| Net weight                          | Indoor     |                         | kg  | 640 x 800(+71) x 290 |                          | 750 x 880(+88) x 340 |                   |
|                                     | Outdoor    |                         |   | 845 x 970 x 370      |                          |                      |                   |
|                                     | Indoor     |                         |   | 34                   |                          |                      |                   |
|                                     | Outdoor    |                         |   | 45                   |                          |                      |                   |
| Ref.piping size                     | Liquid/Gas | ømm                     | 6.35(1/4") / 12.7(1/2")                           |                      | 6.35(1/4") / 15.88(5/8") |                      |                   |
| Refrigerant line (one way) length   |            |                         | m   | Max.30               |                          |                      |                   |
| Vertical height differences         |            |                         | m   | Max.20 / Max.20      |                          |                      |                   |
| Outdoor operating temperature range | Cooling    | °CDB                    | -15~46*3  |                      |                          |                      |                   |
|                                     | Heating    | °CWB                    | -15~20  |                      |                          |                      |                   |
| Air filter                          |            |                         | Procure locally                                   |                      |                          |                      |                   |
| Remote control (option)             |            |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                      |                          |                      |                   |

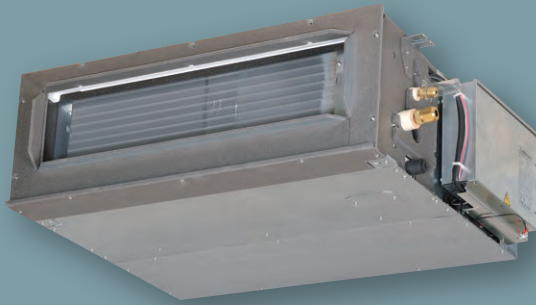
| R410A                               |            |  |        | Standard Inverter                                 |  |                          |  |                          |  |  |
|-------------------------------------|------------|--|--------|---|--|--------------------------|--|--------------------------|--|--|
| Set model name                      |            |  |        | FDU71VNPVH  |  | FDU90VNP1VH              |  | FDU100VNP1VH             |  |  |
| Indoor unit                         |            |  |        | FDU71VH   |  | FDU100VH                 |  | FDU100VH                 |  |  |
| Outdoor unit                        |            |  |        | FDC71VNP  |  | FDC90VNP1                |  | FDC100VNP                |  |  |
| Power source                        |            |  |        | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |  |                          |  |                          |  |  |
| Nominal cooling capacity (Min~Max)  |            |  | kW     | 7.1 ( 1.4 ~ 7.1 )                                 |  | 9.0 ( 1.9 ~ 9.0 )        |  | 10.0 ( 2.8 ~ 11.2 )      |  |  |
| Nominal heating capacity (Min~Max)  |            |  | kW     | 7.1 ( 1.0 ~ 7.1 )                                 |  | 9.0 ( 1.5 ~ 9.0 )        |  | 11.2 ( 2.5 ~ 12.5 )      |  |  |
| Power consumption                   |            | Cooling/Heating                                    | kW     | 2.60 / 1.89                                       |  | 2.69 / 2.25              |  | 3.00 / 2.93              |  |  |
| EER/COP                             |            | Cooling/Heating                                    |        | 2.73. / 3.76                                      |  | 3.35 / 4.00              |  | 3.33 / 3.82              |  |  |
| Inrush current                      |            |  | A      | 5   |  | 5                        |  | 5                        |  |  |
| Max. current                        |            |  |        | 14.5  |  | 18                       |  | 22                       |  |  |
| Sound power level*1                 | Indoor     | Cooling/Heating                                    | dB(A)  | 65 / 65   |  | 65 / 65                  |  | 65 / 65                  |  |  |
|                                     | Outdoor    | Cooling/Heating                                    |        | 67 / 67   |  | 69 / 69                  |  | 70 / 70                  |  |  |
| Sound pressure level*1              | Indoor     | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) |        | m³/min  | 38 / 33 / 29 / 25<br>38 / 33 / 29 / 25 |                          | 44 / 38 / 36 / 30<br>44 / 38 / 36 / 30 |                          | 44 / 38 / 36 / 30<br>44 / 38 / 36 / 30 |  |
|                                     | Outdoor    | Cooling/Heating                                    |        |   | 54 / 54                                |                          | 57 / 55                                |                          | 57 / 61                                |  |
| Air flow                            | Indoor     | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) | m³/min |   | 24 / 19 / 15 / 10<br>24 / 19 / 15 / 10 |                          | 36 / 28 / 25 / 19<br>36 / 28 / 25 / 19 |                          | 36 / 28 / 25 / 19<br>36 / 28 / 25 / 19 |  |
|                                     | Outdoor    | Cooling/Heating                                    |        |   | 36 / 36                                |                          | 63 / 49.5                              |                          | 75 / 79                                |  |
| External static pressure*2          |            |  | Pa     | Standard:35 Max:200                               |  | Standard:60 Max:200      |  |                          |  |  |
| Exterior dimensions                 | Indoor     | HeightxWidthxDepth                                 | mm     | 280 x 950 x 635                                   |  | 280 x 1,370 x 740        |  |                          |  |  |
|                                     | Outdoor    |  |        | 640 x 800(+71) x 290                              |  | 750 x 880(+88) x 340     |  | 845 x 970 x 370          |  |  |
| Net weight                          | Indoor     |  | kg     | 34  |  | 54                       |  |                          |  |  |
|                                     | Outdoor    |  |        | 45  |  | 57                       |  | 70                       |  |  |
| Ref.piping size                     | Liquid/Gas |  | ømm    | 6.35(1/4") / 12.7(1/2")                           |  | 6.35(1/4") / 15.88(5/8") |  | 9.52(3/8") / 15.88(5/8") |  |  |
| Refrigerant line (one way) length   |            |  | m      | Max.30  |  |                          |  |                          |  |  |
| Vertical height differences         |            | Outdoor is higher/lower                            | m      | Max.20 / Max.20                                   |  |                          |  |                          |  |  |
| Outdoor operating temperature range | Cooling    |  | °CDB   | -15~46*3  |  |                          |  |                          |  |  |
|                                     | Heating    |  | °CWB   | -15~20  |  |                          |  |                          |  |  |
| Air filter                          |            |  |        | Procure locally                                   |  |                          |  |                          |  |  |
| Remote control (option)             |            |  |        | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |  |                          |  |                          |  |  |



# FDUM

Indoor Unit

**Duct Connected**  
**-Low/Middle Static pressure-**

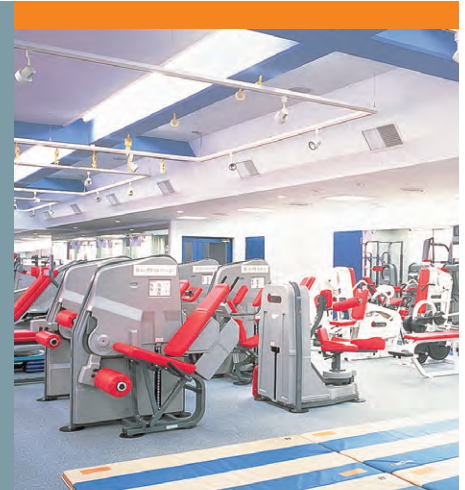


FDUM 40/50/60/71/100/125/140

Filter kit (option)



UM-FL1EF : for 40, 50  
UM-FL2EF : for 60, 71  
UM-FL3EF : for 100, 125, 140  
external static pressure loss:5Pa



Remote control (option)

Wired



RC-EX3A  
RC-EXZ3A



RC-E5



RCH-E3

Wireless



RCN-KIT4-E2

\*Not all functions available with all remote control options.

## Thin Design

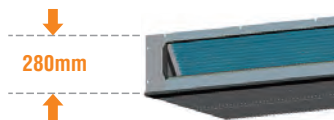
The height of all FDUM models is only 280mm.

FDUM100/125/140

FDUM40/50/60/71

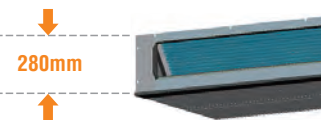
70mm less

19mm less



H 350mm

H 280mm



H 299mm

H 280mm

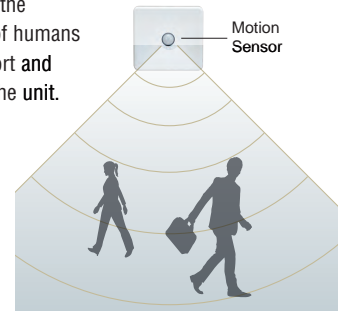
## Motion Sensor (Option)

New

Motion sensor is equipped in the ceiling plane or wall plane and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



LB-KIT2



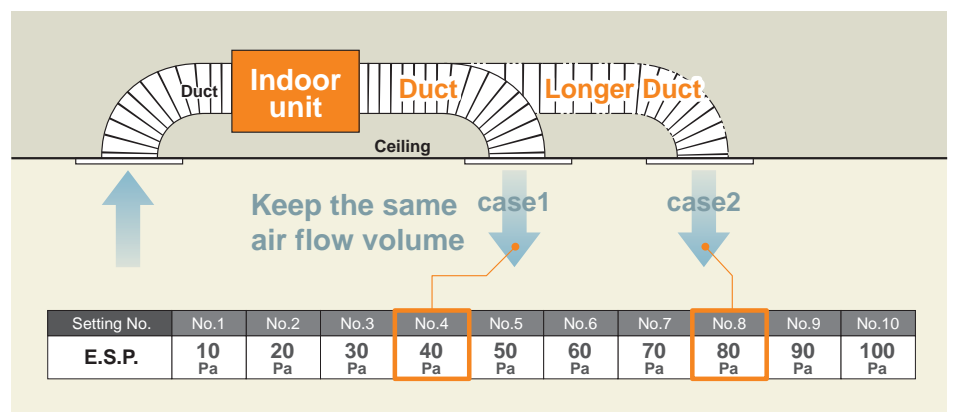
## Automatic External Static Pressure (E.S.P.) Control

Duct design was simplified.  
Using DC motor, the most optimum air flow volume can be achieved by this automatic control.  
Indoor unit will recognize external static pressure by itself automatically and keep rated air flow volume.

RC-E5

E.S.P. button

External Static Pressure (E.S.P.) can be set by E.S.P. button.



## Zoning system

Effectively control temperatures of multiple rooms with one indoor duct unit. (Please refer to P51)

## Improvement of the Serviceability

Fan unit (impeller and motor) can be pulled out from the right side of the unit. Maintenance can be carried out from the right side or the bottom side of the unit.

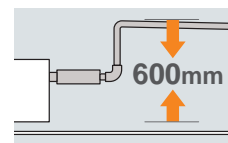
## Transparent Inspection Window

Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan. (Please refer to P52)

## Enhanced Installation Workability

600mm Drain Pump is mounted in all models.

The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



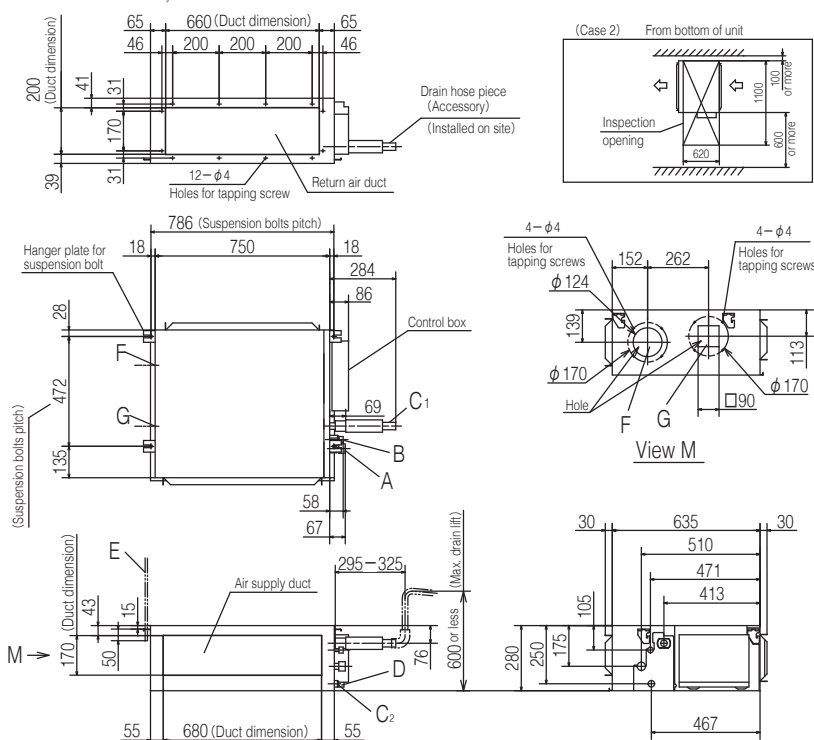
## OUTDOOR UNIT

| Hyper Inverter              |                               |                      |                                  |
|-----------------------------|-------------------------------|----------------------|----------------------------------|
| SRC • FDC                   | 40~60ZSX-W1,-W2<br>40~60ZSX-S | 71VNX-W<br>71VNX     | 100~140VN(S)X-W<br>100~140VN(S)X |
| model                       |                               |                      |                                  |
| Chargeless                  | 15m                           | 30m                  |                                  |
| Height x Width x Depth (mm) | 640 x 800(+71) x 290          | 750 x 880(+88) x 340 | 1,300 x 970 x 370                |

| Micro Inverter              |                                  |                   |                            | Standard Inverter    |                       |                    |
|-----------------------------|----------------------------------|-------------------|----------------------------|----------------------|-----------------------|--------------------|
| FDC                         | 100~140VN(S)A-W<br>100~140VN(S)A | —<br>200VSA       | 200•250•280VSA-W<br>250VSA | 71VNP-W<br>71VNP     | 90•100VNP-W<br>90VNP1 | 125VNP-W<br>100VNP |
| model                       |                                  |                   |                            |                      |                       |                    |
| Chargeless                  | 30m                              |                   |                            | 15m                  |                       |                    |
| Height x Width x Depth (mm) | 845 x 970 x 370                  | 1,300 x 970 x 370 | 1,505 x 970 x 370          | 640 x 800(+71) x 290 | 750 x 880(+88) x 340  | 845 x 970 x 370    |

## DIMENSIONS (Unit:mm) - FDUM -

### Models FDUM40VH, 50VH



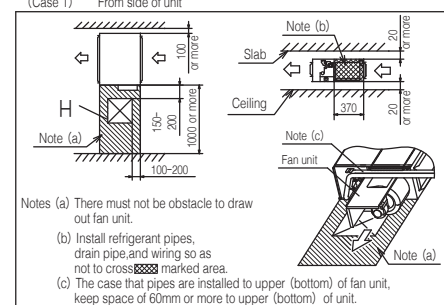
| Symbol | Content  |
|--------|--|
| A      | Gas piping $\phi 12.7 (1/2")$ (Flare)                      |
| B      | Liquid piping $\phi 6.35 (1/4")$ (Flare)                   |
| C1     | Drain piping VP25 (O.D.32)                                 |
| C2     | Drain piping (Gravity drainage) VP20                       |
| D      | Hole for wiring  |
| E      | Suspension bolts (M10)                                     |
| F      | Outside air opening for ducting ( $\phi 150$ ) (Knock out) |
| G      | Air outlet opening for ducting ( $\phi 125$ ) (Knock out)  |
| H      | Inspection opening (450x450)                               |

Note(1) The model name label is attached on the lid of the control box.

#### Space for installation and service

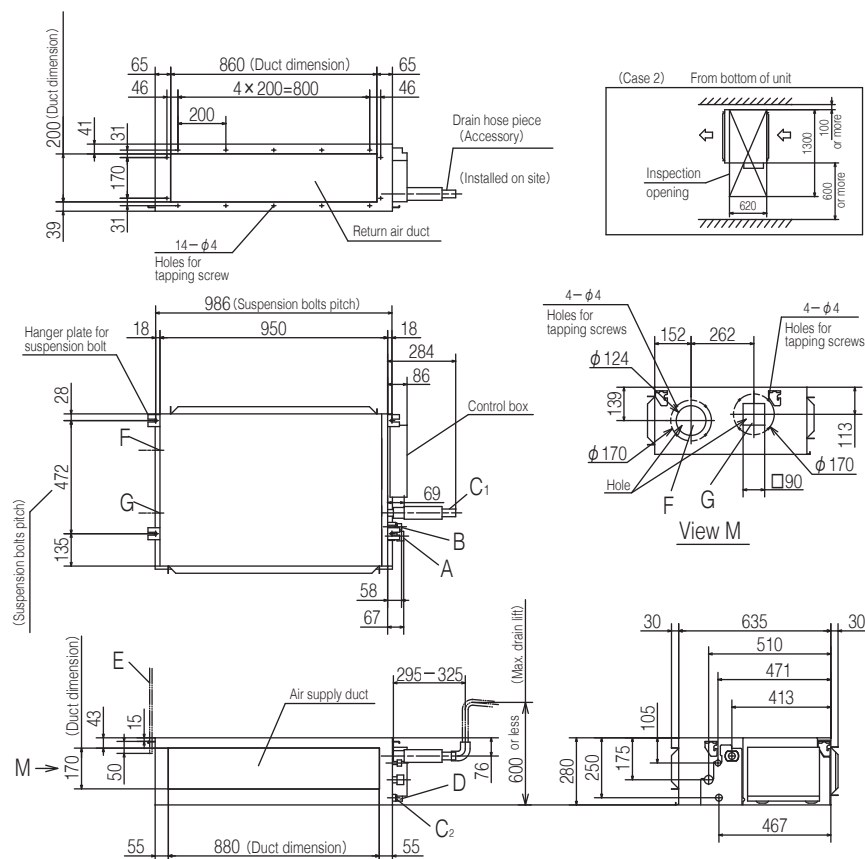
Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



## DIMENSIONS (Unit:mm) - FDUM -

### Models FDUM60VH,71VH



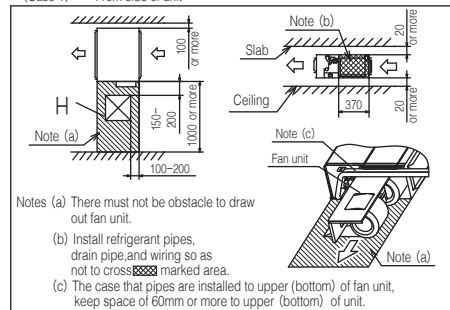
| Symbol | Content   |
|--------|---|
| Model  | 60 71   |
| A      | Gas piping $\phi 12.7 (1/2")$ (Flare) $\phi 15.88 (5/8")$ (Flare)   |
| B      | Liquid piping $\phi 6.35 (1/4")$ (Flare) $\phi 9.52 (3/8")$ (Flare) |
| C1     | Drain piping VP25 (O.D.32)  |
| C2     | Drain piping (Gravity drainage) VP20                                |
| D      | Hole for wiring   |
| E      | Suspension bolts (M10)  |
| F      | Outside air opening for ducting ( $\phi 150$ ) (Knock out)          |
| G      | Air outlet opening for ducting ( $\phi 125$ ) (Knock out)           |
| H      | Inspection opening (450x450)  |

Note (1) The model name label is attached on the lid of the control box.

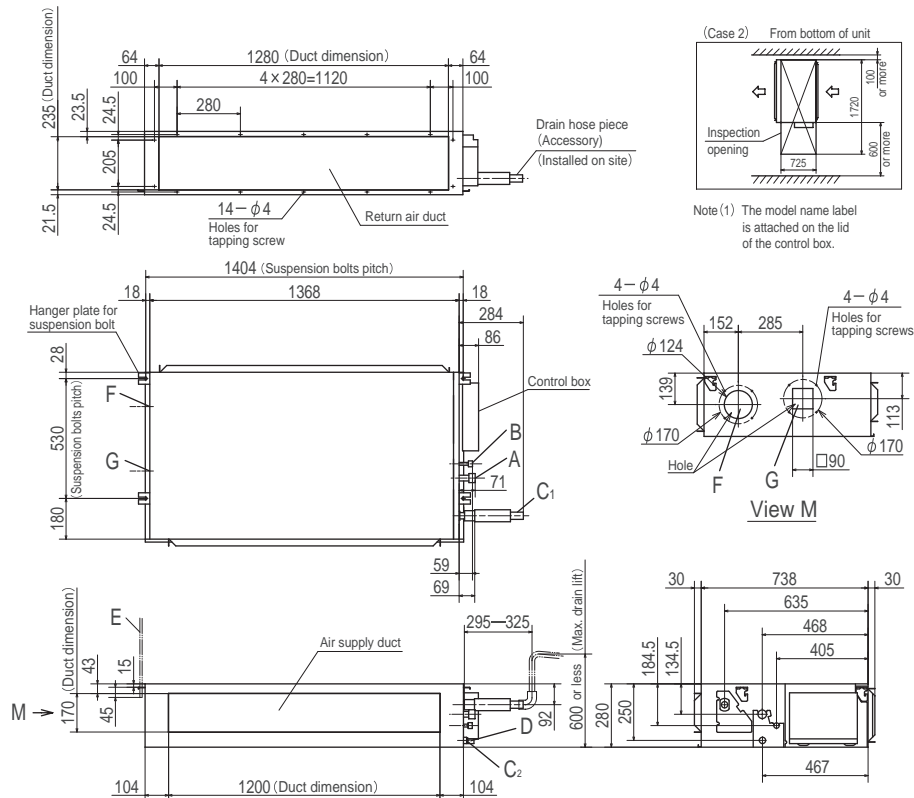
#### Space for installation and service

Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



### Models FDUM100VH,125VH,140VH

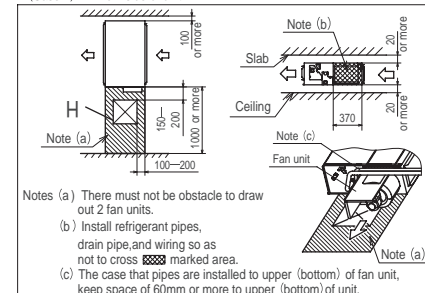




| Symbol | Content  |
|--------|--|
| A      | Gas piping $\phi 15.88 (5/8")$ (Flare)                     |
| B      | Liquid piping $\phi 9.52 (3/8")$ (Flare)                   |
| C1     | Drain piping VP25 (O.D.32)                                 |
| C2     | Drain piping (Gravity drainage) VP20                       |
| D      | Hole for wiring  |
| E      | Suspension bolts (M10)                                     |
| F      | Outside air opening for ducting ( $\phi 150$ ) (Knock out) |
| G      | Air outlet opening for ducting ( $\phi 125$ ) (Knock out)  |
| H      | Inspection opening (450x450)                               |



#### Space for installation and service

Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



|  <b>R32</b> |                 |  <b>Hyper Inverter</b> |   |                       |
|--|-----------------|--|---|-----------------------|
| Set model name   |                 | FDUM40ZSXW1VH  | FDUM50ZSXW2VH                                     | FDUM60ZSXW1VH         |
| Indoor unit  |                 | FDUM40VH   | FDUM50VH  | FDUM60VH              |
| Outdoor unit   |                 | SRC40ZSX-W1  | SRC50ZSX-W2                                       | SRC60ZSX-W1           |
| Power source   |                 | 1 Phase 220-240V, 50Hz / 220V, 60Hz  |   |                       |
| Nominal cooling capacity (Min~Max)   |                 | 4.0 ( 1.1 ~ 4.7 )  | 5.0 ( 1.1 ~ 5.6 )                                 | 5.6 ( 1.1 ~ 6.3 )     |
| Nominal heating capacity (Min~Max)   |                 | 4.5 ( 0.6 ~ 5.4 )  | 5.4 ( 0.6 ~ 6.3 )                                 | 6.7 ( 0.6 ~ 7.1 )     |
| Power consumption  | Cooling/Heating | kW   | 1.10 / 1.10                                       | 1.51 / 1.59           |
| EER/COP  | Cooling/Heating | kW   | 3.62 / 4.09                                       | 3.31 / 3.39           |
| Inrush current   |                 | A  | 5   | 5                     |
| Max. current   |                 | A  | 15  | 15                    |
| Sound power level*1  | Indoor          | Cooling/Heating  | 60 / 60   | 60 / 60               |
|  | Outdoor         | Cooling/Heating  | 63 / 62   | 65 / 65               |
| Sound pressure level*1   | Indoor          | Cooling (P-Hi/Hi/Me/Lo)  | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25     |
|  | Indoor          | Heating (P-Hi/Hi/Me/Lo)  | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25     |
|  | Outdoor         | Cooling/Heating  | 52 / 50   | 53 / 54               |
|  | Outdoor         | Cooling (P-Hi/Hi/Me/Lo)  | 13 / 10 / 9 / 8                                   | 20 / 15 / 13 / 10     |
| Air flow   | Indoor          | Heating (P-Hi/Hi/Me/Lo)  | 13 / 10 / 9 / 8                                   | 20 / 15 / 13 / 10     |
|  | Outdoor         | Cooling/Heating  | 33 / 33   | 41.5 / 39             |
| External static pressure*2   |                 | Pa   | Standard:35 Max:100                               |                       |
| Exterior dimensions  | Indoor          | HeightxWidthxDepth   | 280 x 750 x 635                                   |                       |
|  | Outdoor         | HeightxWidthxDepth   | 640 x 800(+71) x 290                              |                       |
| Net weight   | Indoor          |  | 29  |                       |
|  | Outdoor         |  | 45  |                       |
| Ref.piping size  | Liquid/Gas      | ømm  | 6.35(1/4") / 12.7(1/2")                           |                       |
| Refrigerant line (one way) length  |                 | m  | Max.30  |                       |
| Vertical height differences  |                 | Outdoor is higher/lower  | Max.20 / Max.20                                   |                       |
| Outdoor operating temperature range  | Cooling         | °CDB   | -15~46*3  |                       |
|  | Heating         | °CWB   | -20~20  |                       |
| Air filter (option)  |                 |  | Filter kit : UM-FL1EF                             | Filter kit : UM-FL2EF |
| Remote control (option)  |                 |  | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                       |

|  R32 |                 |  |  Hyper Inverter |                       |                     |                     |                   |
|---|-----------------|--|---|-----------------------|---------------------|---------------------|-------------------|
| Set model name  |                 |  | FDUM71VNXWVH  | FDUM100VNXWVH         | FDUM125VNXWVH       | FDUM140VNXWVH       |                   |
| Indoor unit   |                 |  | FDUM71VH  | FDUM100VH             | FDUM125VH           | FDUM140VH           |                   |
| Outdoor unit  |                 |  | FDC71VNX-W  | FDC100VNX-W           | FDC125VNX-W         | FDC140VNX-W         |                   |
| Power source  |                 |  | 1 Phase 220-240V, 50Hz / 220V, 60Hz   |                       |                     |                     |                   |
| Nominal cooling capacity (Min~Max)  |                 | kW   | 7.1 ( 3.2 ~ 8.0 )   | 10.0 ( 3.5 ~ 11.2 )   | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) |                   |
| Nominal heating capacity (Min~Max)  |                 | kW   | 8.0 ( 3.6 ~ 9.0 )   | 11.2 ( 2.7 ~ 12.5 )   | 14.0 ( 2.7 ~ 17.0 ) | 16.0 ( 2.7 ~ 18.0 ) |                   |
| Power consumption   | Cooling/Heating | kW   | 1.77 / 1.78   | 2.59 / 2.63           | 3.49 / 3.61         | 4.22 / 4.22         |                   |
| EER/COP   | Cooling/Heating |  | 4.01 / 4.49   | 3.86 / 4.26           | 3.58 / 3.88         | 3.32 / 3.79         |                   |
| Inrush current  |                 | A  | 5   | 5                     | 5                   | 5                   |                   |
| Max. current  |                 |  | 20  | 26                    | 28                  | 30                  |                   |
| Sound power level* <sup>1</sup>   | Indoor          | Cooling/Heating                                    | 65 / 65   | 65 / 65               | 67 / 67             | 70 / 70             |                   |
|   | Outdoor         |  | Cooling/Heating   | 66 / 66               | 67 / 67             | 68 / 70             | 69 / 71           |
| Sound pressure level* <sup>1</sup>  | Indoor          | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) | dB(A)   | 38 / 33 / 29 / 25     | 44 / 38 / 36 / 30   | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30 |
|   | Outdoor         |  |   | Cooling/Heating       | 51 / 51             | 53 / 51             | 53 / 54           |
| Air flow  | Indoor          | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) | m <sup>3</sup> /min   | 24 / 19 / 15 / 10     | 36 / 28 / 25 / 19   | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22 |
|   | Outdoor         |  |   | Cooling/Heating       | 24 / 19 / 15 / 10   | 36 / 28 / 25 / 19   | 39 / 32 / 26 / 20 |
|   |                 |  |   | 60 / 50               | 100 / 100           | 100 / 100           | 100 / 100         |
| External static pressure* <sup>2</sup>  |                 | Pa   | Standard:35 Max:100   | Standard:60 Max:100   |                     |                     |                   |
| Exterior dimensions   | Indoor          | HeightxWidthxDepth                                 | mm  | 280 x 950 x 635       |                     |                     |                   |
|   | Outdoor         |  |   | 280 x 1,370 x 740     |                     |                     |                   |
| Net weight  | Indoor          |  | kg  | 750 x 880(+88) x 340  |                     |                     |                   |
|   | Outdoor         |  |   | 1,300 x 970 x 370     |                     |                     |                   |
|   | Indoor          |  |   | 34                    |                     |                     |                   |
|   | Outdoor         |  |   | 60                    |                     |                     |                   |
| Ref.piping size   | Liquid/Gas      | ømm  | 9.52(3/8") / 15.88(5/8")  |                       |                     |                     |                   |
|   |                 |  |   |                       |                     |                     |                   |
| Refrigerant line (one way) length   |                 | m  | Max.50  | Max.100               |                     |                     |                   |
| Vertical height differences   |                 | Outdoor is higher/lower                            | m   | Max.30 / Max.15       | Max.50 / Max.15     |                     |                   |
| Outdoor operating temperature range   | Cooling         | °CDB   | -15~50* <sup>3</sup>  |                       |                     |                     |                   |
|   | Heating         | °CWB   | -20~20  |                       |                     |                     |                   |
| Air filter (option)   |                 |  | Filter kit : UM-FL2EF   | Filter kit : UM-FL3EF |                     |                     |                   |
| Remote control (option)   |                 |  | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2   |                       |                     |                     |                   |

**NOTES:**

The data are measured under the following conditions(ISO-T1, -H1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  
\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.



## SPECIFICATIONS - FDUM -

| R32                                 |  |  | HyperInverter                       |   |                     |
|-------------------------------------|--|--|-------------------------------------|---|---------------------|
| Set model name                      |  |  | FDUM100VSXWVH                       | FDUM125VSXWVH                                     | FDUM140VSXWVH       |
| Indoor unit                         |  |  | FDUM100VH                           | FDUM125VH   | FDUM140VH           |
| Outdoor unit                        |  |  | FDC100VSX-W                         | FDC125VSX-W                                       | FDC140VSX-W         |
| Power source                        |  |  | 3 Phase 380-415V, 50Hz / 380V, 60Hz |   |                     |
| Nominal cooling capacity (Min~Max)  |  |  | 10.0 ( 3.5 ~ 11.2 )                 | 12.5 ( 3.5 ~ 14.0 )                               | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |  |  | 11.2 ( 2.7 ~ 16.0 )                 | 14.0 ( 2.7 ~ 18.0 )                               | 16.0 ( 2.7 ~ 20.0 ) |
| Power consumption                   |  |  | Cooling/Heating kW                  | 2.59 / 2.63                                       | 3.49 / 3.61         |
| EER/COP                             |  |  | Cooling/Heating                     | 3.86 / 4.26                                       | 3.58 / 3.88         |
| Inrush current                      |  |  | A                                   | 5   | 5                   |
| Max. current                        |  |  | A                                   | 15  | 16                  |
| Sound power level*1                 |  |  | Indoor Cooling/Heating              | 65 / 65   | 67 / 67             |
|                                     |  |  | Outdoor Cooling/Heating             | 67 / 67   | 68 / 70             |
| Sound pressure level*1              |  |  | Indoor Cooling (P-Hi/Hi/Me/Lo)      | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   |
|                                     |  |  | Heating (P-Hi/Hi/Me/Lo)             | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   |
|                                     |  |  | Outdoor Cooling/Heating             | 53 / 51   | 53 / 54             |
| Air flow                            |  |  | Indoor Cooling (P-Hi/Hi/Me/Lo)      | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   |
|                                     |  |  | Heating (P-Hi/Hi/Me/Lo)             | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   |
|                                     |  |  | Outdoor Cooling/Heating             | 100 / 100   | 100 / 100           |
| External static pressure*2          |  |  | Pa                                  | Standard:60 Max:100                               |                     |
| Exterior dimensions                 |  |  | Indoor HeightxWidthxDepth           | 280 x 1,370 x 740                                 |                     |
|                                     |  |  | Outdoor                             | 1,300 x 970 x 370                                 |                     |
| Net weight                          |  |  | Indoor                              | 54  |                     |
|                                     |  |  | Outdoor                             | 99  |                     |
| Ref.piping size                     |  |  | Liquid/Gas                          | ømm 9.52(3/8") / 15.88(5/8")                      |                     |
| Refrigerant line (one way) length   |  |  | m                                   | Max.100   |                     |
| Vertical height differences         |  |  | Outdoor is higher/lower             | Max.50 / Max.15                                   |                     |
| Outdoor operating temperature range |  |  | Cooling                             | °CDB -15~50*3                                     |                     |
|                                     |  |  | Heating                             | °CWB -20~20                                       |                     |
| Air filter (option)                 |  |  |                                     | Filter kit : UM-FL3EF                             |                     |
| Remote control (option)             |  |  |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |

The values are for simultaneous Multi operation.

| R32                                 |                         |                         | HyperInverter                                     |                     |                     |                       |                     |
|-------------------------------------|-------------------------|-------------------------|---|---------------------|---------------------|-----------------------|---------------------|
| Set model name                      |                         |                         | FDUM71VNXWPVH                                     | FDUM100VNXWPVH      | FDUM125VNXWPVH      | FDUM140VNXWPVH        | FDUM140VNXWTVH      |
|                                     |                         |                         | Twin  |                     |                     |                       | Triple              |
| Indoor unit                         |                         |                         | FDUM40VH x 2                                      | FDUM50VH x 2        | FDUM60VH x 2        | FDUM71VH x 2          | FDUM50VH x 3        |
| Outdoor unit                        |                         |                         | FDC71VNX-W  | FDC100VNX-W         | FDC125VNX-W         | FDC140VNX-W           | FDC140VNX-W         |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                     |                     |                       |                     |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 7.1 ( 3.2 ~ 8.0 )                                 | 10.0 ( 3.5 ~ 11.2 ) | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 )   | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 8.0 ( 3.6 ~ 9.0 )                                 | 11.2 ( 2.7 ~ 12.5 ) | 14.0 ( 2.7 ~ 17.0 ) | 16.0 ( 2.7 ~ 18.0 )   | 16.0 ( 2.7 ~ 18.0 ) |
| Power consumption                   | Cooling/Heating         | kW                      | 1.76 / 1.80                                       | 2.66 / 2.96         | 3.26 / 3.26         | 3.97 / 3.91           | 4.03 / 4.04         |
| EER/COP                             | Cooling/Heating         |                         | 4.03 / 4.44                                       | 3.76 / 3.79         | 3.83 / 4.30         | 3.53 / 4.10           | 3.48 / 3.96         |
| Inrush current                      |                         | A                       | 5   | 5                   | 5                   | 5                     | 5                   |
| Max. current                        |                         |                         | 20  | 26                  | 28                  | 30                    | 30                  |
| Sound power level*1                 | Indoor*4                | dB(A)                   | Cooling/Heating                                   | 60 / 60             | 60 / 60             | 60 / 60               | 65 / 65             |
|                                     | Outdoor                 |                         | Cooling/Heating                                   | 66 / 66             | 67 / 67             | 68 / 70               | 69 / 71             |
| Sound pressure level*1              | Indoor*4                |                         | Cooling (P-Hi/Hi/Me/Lo)                           | 37 / 32 / 29 / 26   | 37 / 32 / 29 / 26   | 36 / 31 / 28 / 25     | 38 / 33 / 29 / 25   |
|                                     | Outdoor                 |                         | Heating (P-Hi/Hi/Me/Lo)                           | 37 / 32 / 29 / 26   | 37 / 32 / 29 / 26   | 36 / 31 / 28 / 25     | 38 / 33 / 29 / 25   |
| Air flow                            | Indoor*4                | m³/min                  | Cooling/Heating                                   | 51 / 51             | 53 / 51             | 53 / 54               | 54 / 54             |
|                                     |                         |                         | Cooling (P-Hi/Hi/Me/Lo)                           | 13 / 10 / 9 / 8     | 13 / 10 / 9 / 8     | 20 / 15 / 13 / 10     | 24 / 19 / 15 / 10   |
|                                     | Outdoor                 | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 8                                   | 13 / 10 / 9 / 8     | 20 / 15 / 13 / 10   | 24 / 19 / 15 / 10     |                     |
|                                     |                         | Cooling/Heating         | 60 / 50   | 100 / 100           | 100 / 100           | 100 / 100             |                     |
| External static pressure*2          |                         | Pa                      | Standard:35 Max:100                               |                     |                     |                       |                     |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | 280 x 750 x 635                                   |                     | 280 x 950 x 635     |                       | 280 x 750 x 635     |
|                                     | Outdoor                 |                         | 750 x 880(+88) x 340                              | 1,300 x 970 x 370   |                     |                       |                     |
| Net weight                          | Indoor                  | kg                      | 29  |                     | 34                  |                       | 29                  |
|                                     | Outdoor                 |                         | 60  | 97                  |                     |                       |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                     |                     |                       |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.50  |                     | Max.100             |                       |                     |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.30 / Max.15                                   |                     | Max.50 / Max.15     |                       |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50*3  |                     |                     |                       |                     |
|                                     | Heating                 | °CWB                    | -20~20  |                     |                     |                       |                     |
| Air filter (option)                 |                         |                         | Filter kit : UM-FL1EF                             |                     |                     | Filter kit : UM-FL2EF |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |                     |                       |                     |

### NOTES:

- The data are measured under the following conditions(ISO-T1, -H1 / R410A : ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  
\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
\*4 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

FDUM

Indoor Unit

| R32                                 |          |                         | HyperInverter                                     |                     |                     |                     |
|-------------------------------------|----------|-------------------------|---|---------------------|---------------------|---------------------|
| Set model name                      |          |                         | FDUM100VSXWPH                                     | FDUM125VSXWPH       | FDUM140VSXWPH       | FDUM140VSXWTVH      |
|                                     |          |                         | Twin  |                     | Triple              |                     |
| Indoor unit                         |          |                         | FDUM50VH x 2                                      | FDUM60VH x 2        | FDUM71VH x 2        | FDUM50VH x 3        |
| Outdoor unit                        |          |                         | FDC100VSX-W                                       | FDC125VSX-W         | FDC140VSX-W         | FDC140VSX-W         |
| Power source                        |          |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                     |                     |                     |
| Nominal cooling capacity (Min~Max)  |          |                         | 10.0 ( 3.5 ~ 11.2 )                               | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |          |                         | 11.2 ( 2.7 ~ 16.0 )                               | 14.0 ( 2.7 ~ 18.0 ) | 16.0 ( 2.7 ~ 20.0 ) | 16.0 ( 2.7 ~ 20.0 ) |
| Power consumption                   |          |                         | 2.66 / 2.96                                       | 3.26 / 3.26         | 3.97 / 3.91         | 4.03 / 4.04         |
| EER/COP                             |          |                         | 3.76 / 3.79                                       | 3.83 / 4.30         | 3.53 / 4.10         | 3.48 / 3.96         |
| Inrush current                      |          |                         | 5   | 5                   | 5                   | 5                   |
| Max. current                        |          |                         | 15  | 16                  | 17                  | 17                  |
| Sound power level*1                 | Indoor*4 | Cooling/Heating         | 60 / 60   | 60 / 60             | 65 / 65             | 60 / 60             |
|                                     | Outdoor  | Cooling/Heating         | 67 / 67   | 68 / 70             | 69 / 71             | 69 / 71             |
| Sound pressure level*1              | Indoor*4 | Cooling (P-Hi/Hi/Me/Lo) | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25   | 38 / 33 / 29 / 25   | 37 / 32 / 29 / 26   |
|                                     | Outdoor  | Heating (P-Hi/Hi/Me/Lo) | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25   | 38 / 33 / 29 / 25   | 37 / 32 / 29 / 26   |
| Air flow                            | Indoor*4 | Cooling/Heating         | 53 / 51   | 53 / 54             | 54 / 54             | 54 / 54             |
|                                     | Outdoor  | Cooling/Heating         | 13 / 10 / 9 / 8                                   | 20 / 15 / 13 / 10   | 24 / 19 / 15 / 10   | 13 / 10 / 9 / 8     |
| External static pressure*2          |          |                         | 13 / 10 / 9 / 8                                   | 20 / 15 / 13 / 10   | 24 / 19 / 15 / 10   | 13 / 10 / 9 / 8     |
| Ref.piping size                     |          |                         | 100 / 100   | 100 / 100           | 100 / 100           | 100 / 100           |
| Refrigerant line (one way) length   |          |                         | Standard:35 Max:100                               |                     |                     |                     |
| Vertical height differences         |          |                         | Max.100   |                     |                     |                     |
| Outdoor operating temperature range |          |                         | Max.50 / Max.15                                   |                     |                     |                     |
| Air filter (option)                 |          |                         | -15~50*3  |                     |                     |                     |
| Remote control (option)             |          |                         | -20~20  |                     |                     |                     |
|                                     |          |                         | Filter kit : UM-FL1EF                             |                     |                     |                     |
|                                     |          |                         | Filter kit : UM-FL2EF                             |                     |                     |                     |
|                                     |          |                         | Filter kit : UM-FL1EF                             |                     |                     |                     |
|                                     |          |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |                     |                     |

| R410A                               |         |                         | HyperInverter                                     |                   |                   |
|-------------------------------------|---------|-------------------------|---|-------------------|-------------------|
| Set model name                      |         |                         | FDUM40ZSXVH                                       | FDUM50ZSXVH       | FDUM60ZSXVH       |
| Indoor unit                         |         |                         | FDUM40VH  | FDUM50VH          | FDUM60VH          |
| Outdoor unit                        |         |                         | SRC40ZSX-S  | SRC50ZSX-S        | SRC60ZSX-S        |
| Power source                        |         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                   |                   |
| Nominal cooling capacity (Min~Max)  |         |                         | 4.0 ( 1.1 ~ 4.7 )                                 | 5.0 ( 1.1 ~ 5.6 ) | 5.6 ( 1.1 ~ 6.3 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 4.5 ( 0.6 ~ 5.4 )                                 | 5.4 ( 0.6 ~ 6.3 ) | 6.7 ( 0.6 ~ 7.1 ) |
| Power consumption                   |         |                         | 0.952 / 1.07                                      | 1.38 / 1.45       | 1.54 / 1.75       |
| EER/COP                             |         |                         | 4.20 / 4.21                                       | 3.62 / 3.72       | 3.64 / 3.83       |
| Inrush current                      |         |                         | 5   | 5                 | 5                 |
| Max. current                        |         |                         | 12  | 15                | 15                |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 60 / 60   | 60 / 60           | 60 / 60           |
|                                     | Outdoor | Cooling/Heating         | 63 / 63   | 63 / 63           | 65 / 64           |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 37 / 32 / 29 / 26                                 | 37 / 32 / 29 / 26 | 36 / 31 / 28 / 25 |
|                                     | Outdoor | Heating (P-Hi/Hi/Me/Lo) | 37 / 32 / 29 / 26                                 | 37 / 32 / 29 / 26 | 36 / 31 / 28 / 25 |
| Air flow                            | Indoor  | Cooling/Heating         | 50 / 49   | 50 / 49           | 52 / 52           |
|                                     | Outdoor | Cooling/Heating         | 13 / 10 / 9 / 8                                   | 13 / 10 / 9 / 8   | 20 / 15 / 13 / 10 |
| External static pressure*2          |         |                         | 13 / 10 / 9 / 8                                   | 13 / 10 / 9 / 8   | 20 / 15 / 13 / 10 |
| Ref.piping size                     |         |                         | 36 / 33   | 40 / 33           | 41.5 / 39         |
| Refrigerant line (one way) length   |         |                         | Standard:35 Max:100                               |                   |                   |
| Vertical height differences         |         |                         | Max.20 / Max.20                                   |                   |                   |
| Outdoor operating temperature range |         |                         | Max.20 / Max.20                                   |                   |                   |
| Air filter (option)                 |         |                         | -15~46*3  |                   |                   |
| Remote control (option)             |         |                         | -20~20  |                   |                   |
|                                     |         |                         | Filter kit : UM-FL1EF                             |                   |                   |
|                                     |         |                         | Filter kit : UM-FL2EF                             |                   |                   |
|                                     |         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                   |                   |

## SPECIFICATIONS - FDUM -

| R410A                               |         |                         | HyperInverter                                     |                          |                       |                     |                   |
|-------------------------------------|---------|-------------------------|---|--------------------------|-----------------------|---------------------|-------------------|
| Set model name                      |         |                         | FDUM71VNXVH                                       | FDUM100VNXVH             | FDUM125VNXVH          | FDUM140VNXVH        |                   |
| Indoor unit                         |         |                         | FDUM71VH  | FDUM100VH                | FDUM125VH             | FDUM140VH           |                   |
| Outdoor unit                        |         |                         | FDC71VNX  | FDC100VNX                | FDC125VNX             | FDC140VNX           |                   |
| Power source                        |         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                          |                       |                     |                   |
| Nominal cooling capacity (Min~Max)  |         | kW                      | 7.1 ( 3.2 ~ 8.0 )                                 | 10.0 ( 4.0 ~ 11.2 )      | 12.5 ( 5.0 ~ 14.0 )   | 14.0 ( 5.0 ~ 16.0 ) |                   |
| Nominal heating capacity (Min~Max)  |         | kW                      | 8.0 ( 3.6 ~ 9.0 )                                 | 11.2 ( 4.0 ~ 12.5 )      | 14.0 ( 4.0 ~ 17.0 )   | 16.0 ( 4.0 ~ 18.0 ) |                   |
| Power consumption                   |         | Cooling/Heating         | 2.03 / 1.99                                       | 2.68 / 3.02              | 3.49 / 3.77           | 4.28 / 4.42         |                   |
| EER/COP                             |         | Cooling/Heating         | 3.50 / 4.02                                       | 3.73 / 3.71              | 3.58 / 3.71           | 3.27 / 3.62         |                   |
| Inrush current                      |         | A                       | 5   | 5                        | 5                     | 5                   |                   |
| Max. current                        |         |                         | 17  | 24                       | 26                    | 26                  |                   |
| Sound power level*1                 | Indoor  | Cooling/Heating         | dB(A)   | 65 / 65                  | 65 / 65               | 67 / 67             | 70 / 70           |
|                                     | Outdoor | Cooling/Heating         |   | 66 / 66                  | 70 / 70               | 70 / 70             | 72 / 72           |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) |   | 38 / 33 / 29 / 25        | 44 / 38 / 36 / 30     | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30 |
|                                     |         | Heating (P-Hi/Hi/Me/Lo) |   | 38 / 33 / 29 / 25        | 44 / 38 / 36 / 30     | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30 |
| Air flow                            | Outdoor | Cooling/Heating         |   | 51 / 48                  | 48 / 50               | 48 / 50             | 49 / 52           |
|                                     |         | Cooling (P-Hi/Hi/Me/Lo) |   | 24 / 19 / 15 / 10        | 36 / 28 / 25 / 19     | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22 |
|                                     | Indoor  | Heating (P-Hi/Hi/Me/Lo) |   | 24 / 19 / 15 / 10        | 36 / 28 / 25 / 19     | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22 |
|                                     |         | Outdoor                 |   | Cooling/Heating          | 60 / 50               | 100 / 100           | 100 / 100         |
| External static pressure*2          |         | Pa                      | Standard:35 Max:100 Standard:60 Max:100           |                          |                       |                     |                   |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | mm  | 280 x 950 x 635          |                       |                     | 280 x 1,370 x 740 |
|                                     | Outdoor |                         | 750 x 880(+88) x 340                              |                          |                       | 1,300 x 970 x 370   |                   |
| Net weight                          | Indoor  |                         | kg  | 34                       |                       |                     | 54                |
|                                     | Outdoor |                         | 60  |                          |                       | 105                 |                   |
| Ref.piping size                     |         | Liquid/Gas              | ømm   | 9.52(3/8") / 15.88(5/8") |                       |                     |                   |
| Refrigerant line (one way) length   |         |                         | m   | Max.50                   | Max.100               |                     |                   |
| Vertical height differences         |         | Outdoor is higher/lower | m   | Max.30 / Max.15          |                       |                     |                   |
| Outdoor operating temperature range | Cooling | °CDB                    | -15~43*3  |                          |                       |                     |                   |
|                                     | Heating | °CWB                    | -20~20  |                          |                       |                     |                   |
| Air filter (option)                 |         |                         | Filter kit : UM-FL2EF                             |                          | Filter kit : UM-FL3EF |                     |                   |
| Remote control (option)             |         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                          |                       |                     |                   |

| R410A                               |         |  | HyperInverter                                     |  |  |  |
|-------------------------------------|---------|--|---|--|--|--|
| Set model name                      |         |  | FDUM100VSXVH                                      | FDUM125VSXVH                           | FDUM140VSXVH                           |  |
| Indoor unit                         |         |  | FDUM100VH   | FDUM125VH                              | FDUM140VH                              |  |
| Outdoor unit                        |         |  | FDC100VSX   | FDC125VSX                              | FDC140VSX                              |  |
| Power source                        |         |  | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |  |  |  |
| Nominal cooling capacity (Min~Max)  |         | kW   | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 )                    | 14.0 ( 5.0 ~ 16.0 )                    |  |
| Nominal heating capacity (Min~Max)  |         | kW   | 11.2 ( 4.0 ~ 16.0 )                               | 14.0 ( 4.0 ~ 18.0 )                    | 16.0 ( 4.0 ~ 20.0 )                    |  |
| Power consumption                   |         | Cooling/Heating                                    | 2.68 / 3.02                                       | 3.49 / 3.77                            | 4.28 / 4.42                            |  |
| EER/COP                             |         | Cooling/Heating                                    | 3.73 / 3.71                                       | 3.58 / 3.71                            | 3.27 / 3.62                            |  |
| Inrush current                      |         | A  | 5   | 5                                      | 5                                      |  |
| Max. current                        |         |  | 15  | 15                                     | 15                                     |  |
| Sound power level*1                 | Indoor  | Cooling/Heating                                    | 65 / 65   | 67 / 67                                | 70 / 70                                |  |
|                                     | Outdoor | Cooling/Heating                                    | 70 / 70   | 70 / 70                                | 72 / 72                                |  |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30<br>44 / 38 / 36 / 30            | 45 / 40 / 34 / 29<br>45 / 40 / 34 / 29 | 47 / 40 / 35 / 30<br>47 / 40 / 35 / 30 |  |
|                                     | Outdoor | Cooling/Heating                                    | 48 / 50   | 48 / 50                                | 49 / 52                                |  |
| Air flow                            | Indoor  | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19<br>36 / 28 / 25 / 19            | 39 / 32 / 26 / 20<br>39 / 32 / 26 / 20 | 48 / 35 / 28 / 22<br>48 / 35 / 28 / 22 |  |
|                                     | Outdoor | Cooling/Heating                                    | 100 / 100   | 100 / 100                              | 100 / 100                              |  |
| External static pressure*2          |         | Pa   | Standard:60 Max:100                               |  |  |  |
| Exterior dimensions                 | Indoor  | HeightxWidthxDpth                                  | mm  | 280 x 1,370 x 740                      |  |  |
|                                     | Outdoor |  | 1,300 x 970 x 370                                 |  |  |  |
| Net weight                          | Indoor  |  | kg  | 54                                     |  |  |
|                                     | Outdoor |  | 105   |  |  |  |
| Ref.piping size                     |         | Liquid/Gas   | ømm 9.52(3/8") / 15.88(5/8")                      |  |  |  |
| Refrigerant line (one way) length   |         |  | m   | Max.100                                |  |  |
| Vertical height differences         |         | Outdoor is higher/lower                            | m   | Max.30 / Max.15                        |  |  |
| Outdoor operating temperature range | Cooling |  | °CDB  | -15~43*3                               |  |  |
|                                     | Heating |  | °CWB  | -20~20                                 |  |  |
| Air filter (option)                 |         |  | Filter kit : UM-FL3EF                             |  |  |  |
| Remote control (option)             |         |  | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |  |  |  |

### NOTES:

- The data are measured under the following conditions(ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  
\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
\*4 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

FDUM

Indoor Unit

| R410A                               |                         |                         | HyperInverter  |                     |                       |                     |                       |                   |
|-------------------------------------|-------------------------|-------------------------|--|---------------------|-----------------------|---------------------|-----------------------|-------------------|
| Set model name                      |                         |                         | FDUM71VNXPVH   | FDUM100VNXPVH       | FDUM125VNXPVH         | FDUM140VNXPVH       | FDUM140VNXTVH         |                   |
|                                     |                         |                         | Twin   |                     |                       |                     | Triple                |                   |
| Indoor unit                         |                         |                         | FDUM40VH x 2   | FDUM50VH x 2        | FDUM60VH x 2          | FDUM71VH x 2        | FDUM50VH x 3          |                   |
| Outdoor unit                        |                         |                         | FDC71VNX   | FDC100VNX           | FDC125VNX             | FDC140VNX           | FDC140VNX             |                   |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                  |                     |                       |                     |                       |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 7.1 ( 3.2 ~ 8.0 )                                    | 10.0 ( 4.0 ~ 11.2 ) | 12.5 ( 5.0 ~ 14.0 )   | 14.0 ( 5.0 ~ 16.0 ) | 14.0 ( 5.0 ~ 16.0 )   |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 8.0 ( 3.6 ~ 9.0 )                                    | 11.2 ( 4.0 ~ 12.5 ) | 14.0 ( 4.0 ~ 17.0 )   | 16.0 ( 4.0 ~ 18.0 ) | 16.0 ( 4.0 ~ 18.0 )   |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 2.01 / 1.91  | 2.66 / 3.02         | 3.26 / 3.66           | 4.36 / 4.35         | 4.21 / 4.69           |                   |
| EER/COP                             | Cooling/Heating         |                         | 3.53 / 4.19  | 3.76 / 3.71         | 3.83 / 3.83           | 3.21 / 3.68         | 3.33 / 3.41           |                   |
| Inrush current                      |                         | A                       | 5  | 5                   | 5                     | 5                   | 5                     |                   |
| Max. current                        |                         |                         | 17   | 24                  | 26                    | 26                  | 26                    |                   |
| Sound power level*1                 | Indoor*4                | dB(A)                   | 60 / 60  | 60 / 60             | 60 / 60               | 65 / 65             | 60 / 60               |                   |
|                                     | Outdoor                 |                         | 66 / 66  | 70 / 70             | 70 / 70               | 72 / 72             | 72 / 72               |                   |
| Sound pressure level*1              | Indoor*4                |                         | Cooling (P-Hi/Hi/Me/Lo)                              | 37 / 32 / 29 / 26   | 37 / 32 / 29 / 26     | 36 / 31 / 28 / 25   | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26 |
|                                     |                         |                         | Heating (P-Hi/Hi/Me/Lo)                              | 37 / 32 / 29 / 26   | 37 / 32 / 29 / 26     | 36 / 31 / 28 / 25   | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26 |
| Air flow                            | Outdoor                 |                         | 51 / 48  | 48 / 50             | 48 / 50               | 49 / 52             | 49 / 52               |                   |
|                                     | Indoor*4                | Cooling (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 8                                      | 13 / 10 / 9 / 8     | 20 / 15 / 13 / 10     | 24 / 19 / 15 / 10   | 13 / 10 / 9 / 8       |                   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 8                                      | 13 / 10 / 9 / 8     | 20 / 15 / 13 / 10     | 24 / 19 / 15 / 10   | 13 / 10 / 9 / 8       |                   |
|                                     | Outdoor                 | Cooling/Heating         | m³/min   | 60 / 50             | 100 / 100             | 100 / 100           | 100 / 100             | 100 / 100         |
| External static pressure*2          |                         | Pa                      | Standard:35 Max:100                                  |                     |                       |                     |                       |                   |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | 280 x 750 x 635                                      |                     | 280 x 950 x 635       |                     | 280 x 750 x 635       |                   |
|                                     | Outdoor                 |                         | 750 x 880(+88) x 340                                 | 1,300 x 970 x 370   |                       |                     |                       |                   |
| Net weight                          | Indoor                  | kg                      | 29   |                     | 34                    |                     | 29                    |                   |
|                                     | Outdoor                 |                         | 60   | 105                 |                       |                     |                       |                   |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                             |                     |                       |                     |                       |                   |
| Refrigerant line (one way) length   |                         | m                       | Max.50   | Max.100             |                       |                     |                       |                   |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.30 / Max.15                                      |                     |                       |                     |                       |                   |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~43*3   |                     |                       |                     |                       |                   |
|                                     | Heating                 | °CWB                    | -20~20   |                     |                       |                     |                       |                   |
| Air filter (option)                 |                         |                         | Filter kit : UM-FL1EF                                |                     | Filter kit : UM-FL2EF |                     | Filter kit : UM-FL1EF |                   |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2 |                     |                       |                     |                       |                   |

The values are for simultaneous Multi operation.

| R410A                               |                         |                         | HyperInverter                                     |                       |                     |                       |                   |
|-------------------------------------|-------------------------|-------------------------|---|-----------------------|---------------------|-----------------------|-------------------|
| Set model name                      |                         |                         | FDUM100VSXPVH                                     | FDUM125VSXPVH         | FDUM140VSXPVH       | FDUM140VSXTVH         |                   |
|                                     |                         |                         | Twin  |                       |                     | Triple                |                   |
| Indoor unit                         |                         |                         | FDUM50VH x 2                                      | FDUM60VH x 2          | FDUM71VH x 2        | FDUM50VH x 3          |                   |
| Outdoor unit                        |                         |                         | FDC100VSX   | FDC125VSX             | FDC140VSX           | FDC140VSX             |                   |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                       |                     |                       |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 )   | 14.0 ( 5.0 ~ 16.0 ) | 14.0 ( 5.0 ~ 16.0 )   |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 16.0 )                               | 14.0 ( 4.0 ~ 18.0 )   | 16.0 ( 4.0 ~ 20.0 ) | 16.0 ( 4.0 ~ 20.0 )   |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 2.66 / 3.02                                       | 3.26 / 3.66           | 4.36 / 4.35         | 4.21 / 4.69           |                   |
| EER/COP                             | Cooling/Heating         |                         | 3.76 / 3.71                                       | 3.83 / 3.83           | 3.21 / 3.68         | 3.33 / 3.41           |                   |
| Inrush current                      |                         | A                       | 5   | 5                     | 5                   | 5                     |                   |
| Max. current                        |                         |                         | 15  | 15                    | 15                  | 15                    |                   |
| Sound power level*1                 | Indoor*4                | dB(A)                   | 60 / 60   | 60 / 60               | 65 / 65             | 60 / 60               |                   |
|                                     | Outdoor                 |                         | Cooling/Heating                                   | 70 / 70               | 70 / 70             | 72 / 72               | 72 / 72           |
| Sound pressure level*1              | Indoor*4                |                         | Cooling (P-Hi/Hi/Me/Lo)                           | 37 / 32 / 29 / 26     | 36 / 31 / 28 / 25   | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26 |
|                                     |                         |                         | Heating (P-Hi/Hi/Me/Lo)                           | 37 / 32 / 29 / 26     | 36 / 31 / 28 / 25   | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26 |
| Air flow                            | Outdoor                 | Cooling/Heating         | 48 / 50   | 48 / 50               | 49 / 52             | 49 / 52               |                   |
|                                     | Indoor*4                | Cooling (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 8                                   | 20 / 15 / 13 / 10     | 24 / 19 / 15 / 10   | 13 / 10 / 9 / 8       |                   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 8                                   | 20 / 15 / 13 / 10     | 24 / 19 / 15 / 10   | 13 / 10 / 9 / 8       |                   |
|                                     | Outdoor                 | Cooling/Heating         | 100 / 100   | 100 / 100             | 100 / 100           | 100 / 100             |                   |
| External static pressure*2          |                         | Pa                      | Standard:35 Max:100                               |                       |                     |                       |                   |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | 280 x 750 x 635                                   | 280 x 950 x 635       |                     | 280 x 750 x 635       |                   |
|                                     | Outdoor                 |                         | 1,300 x 970 x 370                                 |                       |                     |                       |                   |
| Net weight                          | Indoor                  | kg                      | 29  | 34                    |                     | 29                    |                   |
|                                     | Outdoor                 |                         | 105   |                       |                     |                       |                   |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                       |                     |                       |                   |
| Refrigerant line (one way) length   |                         | m                       | Max.100   |                       |                     |                       |                   |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.30 / Max.15                                   |                       |                     |                       |                   |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~43*3  |                       |                     |                       |                   |
|                                     | Heating                 | °CWB                    | -20~20  |                       |                     |                       |                   |
| Air filter (option)                 |                         |                         | Filter kit : UM-FL1EF                             | Filter kit : UM-FL2EF |                     | Filter kit : UM-FL1EF |                   |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                       |                     |                       |                   |



## SPECIFICATIONS - FDUM -

| R32                                 |         |                         | Micro Inverter                                    |                     |                     |
|-------------------------------------|---------|-------------------------|---|---------------------|---------------------|
| Set model name                      |         |                         | FDUM100VNAWVH                                     | FDUM125VNAWVH       | FDUM140VNAWVH       |
| Indoor unit                         |         |                         | FDUM100VH   | FDUM125VH           | FDUM140VH           |
| Outdoor unit                        |         |                         | FDC100VNA-W                                       | FDC125VNA-W         | FDC140VNA-W         |
| Power source                        |         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                     |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 4.0 ~ 12.5 )                               | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   |         |                         | 2.99 / 2.66                                       | 4.36 / 3.69         | 5.13 / 4.21         |
| EER/COP                             |         |                         | 3.35 / 4.21                                       | 2.87 / 3.79         | 2.65 / 3.68         |
| Inrush current                      |         |                         | 5   | 5                   | 5                   |
| Max. current                        |         |                         | 26  | 26                  | 27                  |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 65 / 65   | 67 / 67             | 70 / 70             |
|                                     | Outdoor | Cooling/Heating         | 69 / 70   | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     | Outdoor | Cooling/Heating         | 54 / 55   | 54 / 56             | 56 / 58             |
|                                     | Outdoor | Cooling/Heating         | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
| Air flow                            | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
|                                     | Outdoor | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
| External static pressure*2          |         |                         | Standard:60 Max:100                               |                     |                     |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | 280 x 1,370 x 740                                 |                     |                     |
|                                     | Outdoor | HeightxWidthxDepth      | 845 x 970 x 370                                   |                     |                     |
| Net weight                          | Indoor  |                         | 54  |                     |                     |
|                                     | Outdoor |                         | 77  |                     |                     |
| Ref.piping size                     |         |                         | 9.52(3/8") / 15.88(5/8")                          |                     |                     |
| Refrigerant line (one way) length   |         |                         | Max.50  |                     |                     |
| Vertical height differences         |         |                         | Max.50 / Max.15                                   |                     |                     |
| Outdoor operating temperature range | Cooling | °CDB                    | -15~50*3  |                     |                     |
|                                     | Heating | °CWB                    | -20~20  |                     |                     |
| Air filter (option)                 |         |                         | Filter kit : UM-FL3EF                             |                     |                     |
| Remote control (option)             |         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |                     |

| R32                                 |         |                         | Micro Inverter                                    |                     |                     |
|-------------------------------------|---------|-------------------------|---|---------------------|---------------------|
| Set model name                      |         |                         | FDUM100VSAWVH                                     | FDUM125VSAWVH       | FDUM140VSAWVH       |
| Indoor unit                         |         |                         | FDUM100VH   | FDUM125VH           | FDUM140VH           |
| Outdoor unit                        |         |                         | FDC100VSA-W                                       | FDC125VSA-W         | FDC140VSA-W         |
| Power source                        |         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                     |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 4.0 ~ 12.5 )                               | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   |         |                         | 2.99 / 2.66                                       | 4.36 / 3.69         | 5.13 / 4.21         |
| EER/COP                             |         |                         | 3.35 / 4.21                                       | 2.87 / 3.79         | 2.65 / 3.68         |
| Inrush current                      |         |                         | 5   | 5                   | 5                   |
| Max. current                        |         |                         | 17  | 17                  | 18                  |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 65 / 65   | 67 / 67             | 70 / 70             |
|                                     | Outdoor | Cooling/Heating         | 69 / 70   | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     | Outdoor | Cooling/Heating         | 54 / 55   | 54 / 56             | 56 / 58             |
|                                     | Outdoor | Cooling/Heating         | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
| Air flow                            | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
|                                     | Outdoor | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
| External static pressure*2          |         |                         | Standard:60 Max:100                               |                     |                     |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | 280 x 1,370 x 740                                 |                     |                     |
|                                     | Outdoor | HeightxWidthxDepth      | 845 x 970 x 370                                   |                     |                     |
| Net weight                          | Indoor  |                         | 54  |                     |                     |
|                                     | Outdoor |                         | 78  |                     |                     |
| Ref.piping size                     |         |                         | 9.52(3/8") / 15.88(5/8")                          |                     |                     |
| Refrigerant line (one way) length   |         |                         | Max.50  |                     |                     |
| Vertical height differences         |         |                         | Max.50 / Max.15                                   |                     |                     |
| Outdoor operating temperature range | Cooling | °CDB                    | -15~50*3  |                     |                     |
|                                     | Heating | °CWB                    | -20~20  |                     |                     |
| Air filter (option)                 |         |                         | Filter kit : UM-FL3EF                             |                     |                     |
| Remote control (option)             |         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |                     |

### NOTES:

The data are measured under the following conditions(ISO-T1, -H1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.

\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*4 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

FDUM

Indoor Unit

| R32                                 |                 |                         | Micro Inverter                                    |                       |                       |                     |
|-------------------------------------|-----------------|-------------------------|---|-----------------------|-----------------------|---------------------|
| Set model name                      |                 |                         | FDUM100VNAWPVH                                    | FDUM125VNAWPVH        | FDUM140VNAWPVH        | FDUM140VNAWTVH      |
|                                     |                 |                         | Twin  |                       | Triple                |                     |
| Indoor unit                         |                 |                         | FDUM50VH x 2                                      | FDUM60VH x 2          | FDUM71VH x 2          | FDUM50VH x 3        |
| Outdoor unit                        |                 |                         | FDC100VNA-W                                       | FDC125VNA-W           | FDC140VNA-W           | FDC140VNA-W         |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                       |                       |                     |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 )   | 13.6 ( 5.0 ~ 14.5 )   | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 11.2 ( 4.0 ~ 12.5 )                               | 14.0 ( 4.0 ~ 16.0 )   | 15.5 ( 4.0 ~ 16.5 )   | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating | kW                      | 3.25 / 3.04                                       | 4.53 / 3.52           | 5.02 / 4.20           | 5.02 / 4.20         |
| EER/COP                             | Cooling/Heating |                         | 3.08 / 3.68                                       | 2.76 / 3.98           | 2.71 / 3.69           | 2.71 / 3.69         |
| Inrush current                      |                 | A                       | 5   | 5                     | 5                     | 5                   |
| Max. current                        |                 |                         | 26  | 26                    | 27                    | 27                  |
| Sound power level*1                 | Indoor*4        | Cooling/Heating         | 60 / 60   | 60 / 60               | 65 / 65               | 60 / 60             |
|                                     | Outdoor         |                         | Cooling/Heating                                   | 69 / 70               | 71 / 71               | 72 / 73             |
| Sound pressure level*1              | Indoor*4        | Cooling (P-Hi/Hi/Me/Lo) | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25     | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26   |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25     | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26   |
| Air flow                            | Outdoor         | Cooling/Heating         | 54 / 55   | 54 / 56               | 56 / 58               | 56 / 58             |
|                                     | Indoor*4        | Cooling (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 8                                   | 20 / 15 / 13 / 10     | 24 / 19 / 15 / 10     | 13 / 10 / 9 / 8     |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 8                                   | 20 / 15 / 13 / 10     | 24 / 19 / 15 / 10     | 13 / 10 / 9 / 8     |
|                                     | Outdoor         | Cooling/Heating         | 75 / 73   | 75 / 73               | 75 / 73               | 75 / 73             |
| External static pressure*2          |                 | Pa                      | Standard:35 Max:100                               |                       |                       |                     |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | 280 x 750 x 635                                   | 280 x 950 x 635       | 280 x 750 x 635       |                     |
|                                     | Outdoor         |                         | 845 x 970 x 370                                   |                       |                       |                     |
| Net weight                          | Indoor          | kg                      | 29  | 34                    | 29                    |                     |
|                                     | Outdoor         |                         | 77  |                       |                       |                     |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                       |                       |                     |
| Refrigerant line (one way) length   |                 | m                       | Max.50  |                       |                       |                     |
| Vertical height differences         |                 | m                       | Max.50 / Max.15                                   |                       |                       |                     |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~50*3  |                       |                       |                     |
|                                     | Heating         | °CWB                    | -20~20  |                       |                       |                     |
| Air filter (option)                 |                 |                         | Filter kit : UM-FL1EF                             | Filter kit : UM-FL2EF | Filter kit : UM-FL1EF |                     |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                       |                       |                     |

The values are for simultaneous Multi operation.

| R32                                 |                         |                         | Micro Inverter                      |   |                       |                       |                   |
|-------------------------------------|-------------------------|-------------------------|-------------------------------------|---|-----------------------|-----------------------|-------------------|
| Set model name                      |                         |                         | FDUM100VSAWPVH                      | FDUM125VSAWPVH                                    | FDUM140VSAWPVH        | FDUM140VSAWTVH        |                   |
|                                     |                         |                         | Twin                                |   | Triple                |                       |                   |
| Indoor unit                         |                         |                         | FDUM50VH x 2                        | FDUM60VH x 2                                      | FDUM71VH x 2          | FDUM50VH x 3          |                   |
| Outdoor unit                        |                         |                         | FDC100VSA-W                         | FDC125VSA-W                                       | FDC140VSA-W           | FDC140VSA-W           |                   |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz |   |                       |                       |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                 | 12.5 ( 5.0 ~ 14.0 )                               | 13.6 ( 5.0 ~ 14.5 )   | 13.6 ( 5.0 ~ 14.5 )   |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 12.5 )                 | 14.0 ( 4.0 ~ 16.0 )                               | 15.5 ( 4.0 ~ 16.5 )   | 15.5 ( 4.0 ~ 16.5 )   |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 3.25 / 3.04                         | 4.53 / 3.52                                       | 5.02 / 4.20           | 5.02 / 4.20           |                   |
| EER/COP                             | Cooling/Heating         |                         | 3.08 / 3.68                         | 2.76 / 3.98                                       | 2.71 / 3.69           | 2.71 / 3.69           |                   |
| Inrush current                      |                         | A                       | 5                                   | 5   | 5                     | 5                     |                   |
| Max. current                        |                         |                         | 17                                  | 17  | 18                    | 18                    |                   |
| Sound power level*1                 | Indoor*4                | dB(A)                   | Cooling/Heating                     | 60 / 60   | 60 / 60               | 65 / 65               | 60 / 60           |
|                                     | Outdoor                 |                         | Cooling/Heating                     | 69 / 70   | 71 / 71               | 72 / 73               | 72 / 73           |
| Sound pressure level*1              | Indoor*4                |                         | Cooling (P-Hi/Hi/Me/Lo)             | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25     | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26 |
|                                     |                         |                         | Heating (P-Hi/Hi/Me/Lo)             | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25     | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26 |
| Air flow                            | Outdoor                 | Cooling/Heating         | 54 / 55                             | 54 / 56   | 56 / 58               | 56 / 58               |                   |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 8                     | 20 / 15 / 13 / 10                                 | 24 / 19 / 15 / 10     | 13 / 10 / 9 / 8       |                   |
|                                     | Indoor*4                | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 8                     | 20 / 15 / 13 / 10                                 | 24 / 19 / 15 / 10     | 13 / 10 / 9 / 8       |                   |
|                                     |                         | Outdoor                 | Cooling/Heating                     | 75 / 73   | 75 / 73               | 75 / 73               | 75 / 73           |
| External static pressure*2          |                         | Pa                      | Standard:35 Max:100                 |   |                       |                       |                   |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm                                  | 280 x 750 x 635                                   | 280 x 950 x 635       | 280 x 750 x 635       |                   |
|                                     | Outdoor                 |                         |                                     | 845 x 970 x 370                                   |                       |                       |                   |
| Net weight                          | Indoor                  |                         | kg                                  | 29  | 34                    | 29                    |                   |
|                                     | Outdoor                 |                         |                                     | 78  |                       |                       |                   |
| Ref.piping size                     | Liquid/Gas              |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")                          |                       |                       |                   |
| Refrigerant line (one way) length   |                         |                         | m                                   | Max.50  |                       |                       |                   |
| Vertical height differences         | Outdoor is higher/lower |                         | m                                   | Max.50 / Max.15                                   |                       |                       |                   |
| Outdoor operating temperature range | Cooling                 |                         | °CDB                                | -15~50*3  |                       |                       |                   |
|                                     | Heating                 |                         | °CWB                                | -20~20  |                       |                       |                   |
| Air filter (option)                 |                         |                         |                                     | Filter kit : UM-FL1EF                             | Filter kit : UM-FL2EF | Filter kit : UM-FL1EF |                   |
| Remote control (option)             |                         |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                       |                       |                   |

## SPECIFICATIONS - FDUM -

The values are for simultaneous Multi operation.

| R32                                 |          |                         | Micro Inverter                      |   |                     |                          |
|-------------------------------------|----------|-------------------------|-------------------------------------|---|---------------------|--------------------------|
| Set model name                      |          |                         | FDUM200VSAWPVH                      | FDUM250VSAWPVH                                    | FDUM280VSAWPVH      | FDUM200VSAWTVH           |
|                                     |          |                         | Twin                                |   | Triple              |                          |
| Indoor unit                         |          |                         | FDUM100VH x 2                       | FDUM125VH x 2                                     | FDUM140VH x 2       | FDUM71VH x 3             |
| Outdoor unit                        |          |                         | FDC200VSA-W                         | FDC250VSA-W                                       | FDC280VSA-W         | FDC200VSA-W              |
| Power source                        |          |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz |   |                     |                          |
| Nominal cooling capacity (Min~Max)  |          |                         | kW 20.0 ( 6.8 ~ 22.4 )              | 25.0 ( 6.8 ~ 28.0 )                               | 27.0 ( 7.8 ~ 31.5 ) | 20.0 ( 6.8 ~ 22.4 )      |
| Nominal heating capacity (Min~Max)  |          |                         | kW 22.4 ( 6.7 ~ 25.0 )              | 28.0 ( 5.2 ~ 31.5 )                               | 30.0 ( 6.3 ~ 33.5 ) | 22.4 ( 6.7 ~ 25.0 )      |
| Power consumption                   |          |                         | Cooling/Heating kW 6.58 / 5.59      | 8.74 / 7.90                                       | 10.05 / 8.47        | 6.58 / 5.59              |
| EER/COP                             |          |                         | Cooling/Heating 3.04 / 4.01         | 2.86 / 3.54                                       | 2.69 / 3.54         | 3.04 / 4.01              |
| Inrush current                      |          |                         | A 5                                 | 5   | 5                   | 5                        |
| Max. current                        |          |                         | 19                                  | 25  | 22                  | 19                       |
| Sound power level*1                 | Indoor*4 | Cooling/Heating         | 65 / 65                             | 67 / 67   | 70 / 70             | 65 / 65                  |
|                                     | Outdoor  | Cooling/Heating         | 72 / 74                             | 73 / 75   | 75 / 77             | 72 / 74                  |
| Sound pressure level*1              | Indoor*4 | Cooling (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                   | 45 / 40 / 34 / 29                                 | 47 / 40 / 35 / 30   | 38 / 33 / 29 / 25        |
|                                     |          | Heating (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                   | 45 / 40 / 34 / 29                                 | 47 / 40 / 35 / 30   | 38 / 33 / 29 / 25        |
|                                     | Outdoor  | Cooling/Heating         | 58 / 59                             | 58 / 62   | 61 / 63             | 58 / 59                  |
| Air flow                            | Indoor*4 | Cooling (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                   | 39 / 32 / 26 / 20                                 | 48 / 35 / 28 / 22   | 24 / 19 / 15 / 10        |
|                                     |          | Heating (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                   | 39 / 32 / 26 / 20                                 | 48 / 35 / 28 / 22   | 24 / 19 / 15 / 10        |
|                                     | Outdoor  | Cooling/Heating         | 148 / 134                           | 148 / 153   | 136 / 140           | 148 / 134                |
| External static pressure*2          |          |                         | Pa                                  | Standard:60 Max:100                               |                     | Standard:35 Max:100      |
| Exterior dimensions                 | Indoor   | HeightxWidthxDepth      | mm                                  | 280 x 1,370 x 740                                 |                     | 280 x 950 x 635          |
|                                     | Outdoor  |                         |                                     | 1,505 x 970 x 370                                 |                     |                          |
| Net weight                          | Indoor   |                         | kg                                  | 54  |                     | 34                       |
|                                     | Outdoor  |                         |                                     | 144   |                     | 144                      |
| Ref.piping size                     |          |                         | Liquid/Gas ømm                      | 9.52(3/8") / 22.22(7/8")                          |                     | 9.52(3/8") / 22.22(7/8") |
| Refrigerant line (one way) length   |          |                         | m                                   | Max.70  |                     | Max.70                   |
| Vertical height differences         |          |                         | Outdoor is higher/lower m           | Max.50*5 / Max.15                                 |                     |                          |
| Outdoor operating temperature range | Cooling  | °CDB                    |                                     | -15~50*3  |                     |                          |
|                                     | Heating  | °CWB                    |                                     | -20~20  |                     |                          |
| Air filter (option)                 |          |                         |                                     | Filter kit : UM-FL3EF                             |                     | Filter kit : UM-FL2EF    |
| Remote control (option)             |          |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |                          |

| R410A                               |         |                         | Micro Inverter                      |   |                     |  |
|-------------------------------------|---------|-------------------------|-------------------------------------|---|---------------------|--|
| Set model name                      |         |                         | FDUM100VNAVH                        | FDUM125VNAVH                                      | FDUM140VNAVH        |  |
| Indoor unit                         |         |                         | FDUM100VH                           | FDUM125VH   | FDUM140VH           |  |
| Outdoor unit                        |         |                         | FDC100VNA                           | FDC125VNA   | FDC140VNA           |  |
| Power source                        |         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |   |                     |  |
| Nominal cooling capacity (Min~Max)  |         |                         | kW 10.0 ( 4.0 ~ 11.2 )              | 12.5 ( 5.0 ~ 14.0 )                               | 13.6 ( 5.0 ~ 14.5 ) |  |
| Nominal heating capacity (Min~Max)  |         |                         | kW 11.2 ( 4.0 ~ 12.5 )              | 14.0 ( 4.0 ~ 16.0 )                               | 15.5 ( 4.0 ~ 16.5 ) |  |
| Power consumption                   |         |                         | Cooling/Heating kW 2.84 / 2.78      | 4.36 / 3.69                                       | 4.93 / 4.21         |  |
| EER/COP                             |         |                         | Cooling/Heating 3.52 / 4.03         | 2.87 / 3.79                                       | 2.76 / 3.68         |  |
| Inrush current                      |         |                         | A 5                                 | 5   | 5                   |  |
| Max. current                        |         |                         | 26                                  | 26  | 27                  |  |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 65 / 65                             | 67 / 67   | 70 / 70             |  |
|                                     | Outdoor | Cooling/Heating         | 70 / 70                             | 71 / 71   | 73 / 73             |  |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                   | 45 / 40 / 34 / 29                                 | 47 / 40 / 35 / 30   |  |
|                                     |         | Heating (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                   | 45 / 40 / 34 / 29                                 | 47 / 40 / 35 / 30   |  |
|                                     | Outdoor | Cooling/Heating         | 54 / 56                             | 55 / 57   | 57 / 59             |  |
| Air flow                            | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                   | 39 / 32 / 26 / 20                                 | 48 / 35 / 28 / 22   |  |
|                                     |         | Heating (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                   | 39 / 32 / 26 / 20                                 | 48 / 35 / 28 / 22   |  |
|                                     | Outdoor | Cooling/Heating         | 75 / 73                             | 75 / 73   | 75 / 73             |  |
| External static pressure*2          |         |                         | Pa                                  | Standard:60 Max:100                               |                     |  |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | mm                                  | 280 x 1,370 x 740                                 |                     |  |
|                                     | Outdoor |                         |                                     | 845 x 970 x 370                                   |                     |  |
| Net weight                          | Indoor  |                         | kg                                  | 54  |                     |  |
|                                     | Outdoor |                         |                                     | 80  |                     |  |
| Ref.piping size                     |         |                         | Liquid/Gas ømm                      | 9.52(3/8") / 15.88(5/8")                          |                     |  |
| Refrigerant line (one way) length   |         |                         | m                                   | Max.50  |                     |  |
| Vertical height differences         |         |                         | Outdoor is higher/lower m           | Max.50 / Max.15                                   |                     |  |
| Outdoor operating temperature range | Cooling | °CDB                    |                                     | -15~50*3  |                     |  |
|                                     | Heating | °CWB                    |                                     | -20~20  |                     |  |
| Air filter (option)                 |         |                         |                                     | Filter kit : UM-FL3EF                             |                     |  |
| Remote control (option)             |         |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |  |

### NOTES:

|  |  |
|--|--|
| The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).  |  |
| Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  |  |
| *1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  |  |
| *2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.   |  |
| *3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down. |  |
| *4 : The values are for one indoor unit operation. (Multi system only)   |  |
| *5 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)  |  |

| R410A                               |         |                         | Micro Inverter                                    |                     |                     |
|-------------------------------------|---------|-------------------------|---|---------------------|---------------------|
| Set model name                      |         |                         | FDUM100VSAVH                                      | FDUM125VSAVH        | FDUM140VSAVH        |
| Indoor unit                         |         |                         | FDUM100VH   | FDUM125VH           | FDUM140VH           |
| Outdoor unit                        |         |                         | FDC100VSA   | FDC125VSA           | FDC140VSA           |
| Power source                        |         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                     |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 4.0 ~ 12.5 )                               | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   |         |                         | 2.84 / 2.78                                       | 4.36 / 3.69         | 4.93 / 4.21         |
| EER/COP                             |         |                         | 3.52 / 4.03                                       | 2.87 / 3.79         | 2.76 / 3.68         |
| Inrush current                      |         |                         | 5   | 5                   | 5                   |
| Max. current                        |         |                         | 17  | 17                  | 18                  |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 65 / 65   | 67 / 67             | 70 / 70             |
|                                     | Outdoor | Cooling/Heating         | 70 / 70   | 71 / 71             | 73 / 73             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     |         | Heating (P-Hi/Hi/Me/Lo) | 44 / 38 / 36 / 30                                 | 45 / 40 / 34 / 29   | 47 / 40 / 35 / 30   |
|                                     | Outdoor | Cooling/Heating         | 54 / 56   | 55 / 57             | 57 / 59             |
|                                     |         | Cooling (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
| Air flow                            | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 36 / 28 / 25 / 19                                 | 39 / 32 / 26 / 20   | 48 / 35 / 28 / 22   |
|                                     | Outdoor | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
| External static pressure*2          |         |                         | Standard:60 Max:100                               |                     |                     |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | 280 x 1,370 x 740                                 |                     |                     |
|                                     | Outdoor | HeightxWidthxDepth      | 845 x 970 x 370                                   |                     |                     |
| Net weight                          | Indoor  |                         | 54  |                     |                     |
|                                     | Outdoor |                         | 82  |                     |                     |
| Ref.piping size                     |         |                         | 9.52(3/8") / 15.88(5/8")                          |                     |                     |
| Refrigerant line (one way) length   |         |                         | Max.50  |                     |                     |
| Vertical height differences         |         |                         | Max.50 / Max.15                                   |                     |                     |
| Outdoor operating temperature range | Cooling | °CDB                    | -15~50*3  |                     |                     |
|                                     | Heating | °CWB                    | -20~20  |                     |                     |
| Air filter (option)                 |         |                         | Filter kit : UM-FL3EF                             |                     |                     |
| Remote control (option)             |         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                     |                     |

The values are for simultaneous Multi operation.

| R410A                               |                         |                         | Micro Inverter                                    |                       |                       |                     |
|-------------------------------------|-------------------------|-------------------------|---|-----------------------|-----------------------|---------------------|
| Set model name                      |                         |                         | FDUM100VNAPVH                                     | FDUM125VNAPVH         | FDUM140VNAPVH         | FDUM140VNATVH       |
|                                     |                         |                         | Twin  |                       | Triple                |                     |
| Indoor unit                         |                         |                         | FDUM50VH x 2                                      | FDUM60VH x 2          | FDUM71VH x 2          | FDUM50VH x 3        |
| Outdoor unit                        |                         |                         | FDC100VNA   | FDC125VNA             | FDC140VNA             | FDC140VNA           |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                       |                       |                     |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 )   | 13.6 ( 5.0 ~ 14.5 )   | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 12.5 )                               | 14.0 ( 4.0 ~ 16.0 )   | 15.5 ( 4.0 ~ 16.5 )   | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating         | kW                      | 3.25 / 3.21                                       | 4.53 / 3.75           | 5.02 / 4.20           | 5.02 / 4.20         |
| EER/COP                             | Cooling/Heating         |                         | 3.08 / 3.49                                       | 2.76 / 3.73           | 2.71 / 3.69           | 2.71 / 3.69         |
| Inrush current                      |                         | A                       | 5   | 5                     | 5                     | 5                   |
| Max. current                        |                         |                         | 26  | 26                    | 27                    | 27                  |
| Sound power level*1                 | Indoor*4                | Cooling/Heating         | 60 / 60   | 60 / 60               | 65 / 65               | 60 / 60             |
|                                     | Outdoor                 |                         |   |                       |                       |                     |
| Sound pressure level*1              | Indoor*4                | Cooling (P-Hi/Hi/Me/Lo) | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25     | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |   |                       |                       |                     |
|                                     | Outdoor                 | Cooling/Heating         | 54 / 56   | 55 / 57               | 57 / 59               | 57 / 59             |
|                                     |                         | Indoor*4                | Cooling (P-Hi/Hi/Me/Lo)                           | 13 / 10 / 9 / 8       | 20 / 15 / 13 / 10     | 24 / 19 / 15 / 10   |
| Heating (P-Hi/Hi/Me/Lo)             | 13 / 10 / 9 / 8         |                         | 20 / 15 / 13 / 10                                 |                       |                       |                     |
| Air flow                            | Outdoor                 | Cooling/Heating         | 75 / 73   | 75 / 73               | 75 / 73               | 75 / 73             |
| External static pressure*2          |                         | Pa                      | Standard:35 Max:100                               |                       |                       |                     |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm  | 280 x 750 x 635       | 280 x 950 x 635       | 280 x 750 x 635     |
|                                     | Outdoor                 |                         |   | 845 x 970 x 370       |                       |                     |
| Net weight                          | Indoor                  |                         | kg  | 29                    | 34                    | 29                  |
|                                     | Outdoor                 |                         |   | 80                    |                       |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                       |                       |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.50  |                       |                       |                     |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.50 / Max.15                                   |                       |                       |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50*3  |                       |                       |                     |
|                                     | Heating                 | °CWB                    | -20~20  |                       |                       |                     |
| Air filter (option)                 |                         |                         | Filter kit : UM-FL1EF                             | Filter kit : UM-FL2EF | Filter kit : UM-FL1EF |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                       |                       |                     |



## SPECIFICATIONS - FDUM -

The values are for simultaneous Multi operation.

| R410A                               |                         |                         | Micro Inverter                      |   |                       |                       |                   |
|-------------------------------------|-------------------------|-------------------------|-------------------------------------|---|-----------------------|-----------------------|-------------------|
| Set model name                      |                         |                         | FDUM100VSAPVH                       | FDUM125VSAPVH                                     | FDUM140VSAPVH         | FDUM140VSATVH         |                   |
|                                     |                         |                         | Twin                                |   | Triple                |                       |                   |
| Indoor unit                         |                         |                         | FDUM50VH x 2                        | FDUM60VH x 2                                      | FDUM71VH x 2          | FDUM50VH x 3          |                   |
| Outdoor unit                        |                         |                         | FDC100VSA                           | FDC125VSA   | FDC140VSA             | FDC140VSA             |                   |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz |   |                       |                       |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                 | 12.5 ( 5.0 ~ 14.0 )                               | 13.6 ( 5.0 ~ 14.5 )   | 13.6 ( 5.0 ~ 14.5 )   |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 12.5 )                 | 14.0 ( 4.0 ~ 16.0 )                               | 15.5 ( 4.0 ~ 16.5 )   | 15.5 ( 4.0 ~ 16.5 )   |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 3.25 / 3.21                         | 4.53 / 3.75                                       | 5.02 / 4.20           | 5.02 / 4.20           |                   |
| EER/COP                             | Cooling/Heating         |                         | 3.08 / 3.49                         | 2.76 / 3.73                                       | 2.71 / 3.69           | 2.71 / 3.69           |                   |
| Inrush current                      |                         | A                       | 5                                   | 5   | 5                     | 5                     |                   |
| Max. current                        |                         |                         | 17                                  | 17  | 18                    | 18                    |                   |
| Sound power level*1                 | Indoor*4                | Cooling/Heating         | dB(A)                               | 60 / 60   | 60 / 60               | 65 / 65               | 60 / 60           |
|                                     | Outdoor                 | Cooling/Heating         |                                     | 70 / 70   | 71 / 71               | 73 / 73               | 73 / 73           |
| Sound pressure level*1              | Indoor*4                | Cooling (P-Hi/Hi/Me/Lo) | dB(A)                               | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25     | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26 |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |                                     | 37 / 32 / 29 / 26                                 | 36 / 31 / 28 / 25     | 38 / 33 / 29 / 25     | 37 / 32 / 29 / 26 |
| Air flow                            | Outdoor                 | Cooling/Heating         |                                     | 54 / 56   | 55 / 57               | 57 / 59               | 57 / 59           |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | m³/min                              | 13 / 10 / 9 / 8                                   | 20 / 15 / 13 / 10     | 24 / 19 / 15 / 10     | 13 / 10 / 9 / 8   |
|                                     | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 8         |                                     | 20 / 15 / 13 / 10                                 | 24 / 19 / 15 / 10     | 13 / 10 / 9 / 8       |                   |
|                                     | Outdoor                 | Cooling/Heating         |                                     | 75 / 73   | 75 / 73               | 75 / 73               | 75 / 73           |
| External static pressure*2          |                         | Pa                      | Standard:35 Max:100                 |   |                       |                       |                   |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm                                  | 280 x 750 x 635                                   | 280 x 950 x 635       | 280 x 750 x 635       |                   |
|                                     | Outdoor                 |                         |                                     | 845 x 970 x 370                                   |                       |                       |                   |
| Net weight                          | Indoor                  |                         | kg                                  | 29  | 34                    | 29                    |                   |
|                                     | Outdoor                 |                         |                                     | 82  |                       |                       |                   |
| Ref.piping size                     | Liquid/Gas              |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")                          |                       |                       |                   |
| Refrigerant line (one way) length   |                         |                         | m                                   | Max.50  |                       |                       |                   |
| Vertical height differences         | Outdoor is higher/lower |                         | m                                   | Max.50 / Max.15                                   |                       |                       |                   |
| Outdoor operating temperature range | Cooling                 |                         | °CDB                                | -15~50*3  |                       |                       |                   |
|                                     | Heating                 |                         | °CWB                                | -20~20  |                       |                       |                   |
| Air filter (option)                 |                         |                         |                                     | Filter kit : UM-FL1EF                             | Filter kit : UM-FL2EF | Filter kit : UM-FL1EF |                   |
| Remote control (option)             |                         |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                       |                       |                   |

The values are for simultaneous Multi operation.

| R410A                               |                         |  | Micro Inverter                                       |                     |                          |                          |
|-------------------------------------|-------------------------|--|--|---------------------|--------------------------|--------------------------|
| Set model name                      |                         |  | FDUM200VSAPVH  | FDUM250VSAPVH       | FDUM200VSATVH            |                          |
|                                     |                         |  | Twin   |                     | Triple                   |                          |
| Indoor unit                         |                         |  | FDUM100VH x 2  | FDUM125VH x 2       | FDUM71VH x 3             |                          |
| Outdoor unit                        |                         |  | FDC200VSA  | FDC250VSA           | FDC200VSA                |                          |
| Power source                        |                         |  | 3 Phase 380-415V, 50Hz / 380V, 60Hz                  |                     |                          |                          |
| Nominal cooling capacity (Min~Max)  |                         | kW   | 19.0 ( 5.2 ~ 22.4 )                                  | 24.0 ( 6.9 ~ 28.0 ) | 19.0 ( 5.2 ~ 22.4 )      |                          |
| Nominal heating capacity (Min~Max)  |                         | kW   | 22.4 ( 3.3 ~ 25.0 )                                  | 27.0 ( 5.5 ~ 31.5 ) | 22.4 ( 3.3 ~ 25.0 )      |                          |
| Power consumption                   | Cooling/Heating         | kW   | 6.51 / 6.04  | 8.33 / 7.52         | 6.46 / 6.15              |                          |
| EER/COP                             | Cooling/Heating         |  | 2.92 / 3.71  | 2.88 / 3.59         | 2.94 / 3.64              |                          |
| Inrush current                      |                         | A  | 5  | 5                   | 5                        |                          |
| Max. current                        |                         |  | 22   | 24                  | 22                       |                          |
| Sound power level*1                 | Indoor*4                | Cooling/Heating                                    | dB(A)  | 65 / 65             | 67 / 67                  | 65 / 65                  |
|                                     | Outdoor                 |  |  | Cooling/Heating     | 72 / 74                  | 73 / 75                  |
| Sound pressure level*1              | Indoor*4                | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) | dB(A)  | 44 / 38 / 36 / 30   | 45 / 40 / 34 / 29        | 38 / 33 / 29 / 25        |
|                                     | Outdoor                 |  |  | Cooling/Heating     | 44 / 38 / 36 / 30        | 45 / 40 / 34 / 29        |
| Air flow                            | Indoor*4                | Cooling (P-Hi/Hi/Me/Lo)                            | m³/min   | 58 / 59             | 59 / 62                  | 58 / 59                  |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo)                            |  | 36 / 28 / 25 / 19   | 39 / 32 / 26 / 20        | 24 / 19 / 15 / 10        |
|                                     | Outdoor                 | Cooling/Heating                                    |  | 36 / 28 / 25 / 19   | 39 / 32 / 26 / 20        | 24 / 19 / 15 / 10        |
|                                     |                         |  | 135 / 135  | 143 / 151           | 135 / 135                |                          |
| External static pressure*2          |                         | Pa   | Standard:60 Max:100                                  |                     | Standard:35 Max:100      |                          |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth                                 | mm   | 280 x 1,370 x 740   |                          | 280 x 950 x 635          |
|                                     | Outdoor                 |  |  | 1,300 x 970 x 370   | 1,505 x 970 x 370        | 1,300 x 970 x 370        |
| Net weight                          | Indoor                  |  | kg   | 54                  |                          | 34                       |
|                                     | Outdoor                 |  |  | 115                 | 143                      | 115                      |
| Ref.piping size                     | Liquid/Gas              | ømm  | 9.52(3/8") / 22.22(7/8")                             |                     | 12.7(1/2") / 22.22(7/8") | 9.52(3/8") / 22.22(7/8") |
| Refrigerant line (one way) length   |                         | m  | Max.70   |                     |                          |                          |
| Vertical height differences         | Outdoor is higher/lower | m  | Max.30 / Max.15                                      |                     |                          |                          |
| Outdoor operating temperature range | Cooling                 | °CDB   | -15~50*3   |                     |                          |                          |
|                                     | Heating                 | °CWB   | -15~20   |                     |                          |                          |
| Air filter (option)                 |                         |  | Filter kit : UM-FL3EF                                |                     | Filter kit : UM-FL2EF    |                          |
| Remote control (option)             |                         |  | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2 |                     |                          |                          |

### NOTES:

- The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  
\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
\*4 : The values are for one indoor unit operation. (Multi system only)

| R32                                    |         |                         | Standard Inverter                   |                   |                     |                     |
|--|---------|-------------------------|-------------------------------------|-------------------|---------------------|---------------------|
| Set model name                         |         |                         | FDUM71VNPVH                         | FDUM90VNPVH       | FDUM100VNPVH        | FDUM125VNPVH        |
| Indoor unit                            |         |                         | FDUM71VH                            | FDUM100VH         | FDUM100VH           | FDUM125VH           |
| Outdoor unit                           |         |                         | FDC71VNP-W                          | FDC90VNP-W        | FDC100VNP-W         | FDC125VNP-W         |
| Power source                           |         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |                   |                     |                     |
| Nominal cooling capacity (Min~Max)     |         | kW                      | 7.1 ( 1.5 ~ 7.3 )                   | 9.0 ( 2.1 ~ 9.5 ) | 10.0 ( 2.1 ~ 10.2 ) | 12.1 ( 5.0 ~ 12.1 ) |
| Nominal heating capacity (Min~Max)     |         | kW                      | 7.1 ( 1.1 ~ 7.3 )                   | 9.0 ( 1.7 ~ 9.5 ) | 10.0 ( 1.7 ~ 10.4 ) | 12.1 ( 4.0 ~ 13.3 ) |
| Power consumption                      |         | Cooling/Heating<br>kW   | 2.60 / 1.89                         | 2.62 / 1.98       | 3.08 / 2.45         | 3.85 / 3.28         |
| EER/COP                                |         | Cooling/Heating         | 2.73 / 3.76                         | 3.44 / 4.55       | 3.25 / 4.08         | 3.14 / 3.69         |
| Inrush current                         |         | A                       | 5                                   | 5                 | 5                   | 5                   |
| Max. current                           |         |                         | 15.8                                | 19                | 19                  | 20                  |
| Sound power level* <sup>1</sup>        | Indoor  | Cooling/Heating         | 65 / 65                             | 65 / 65           | 65 / 65             | 67 / 67             |
|  | Outdoor | Cooling/Heating         | 67 / 67                             | 67 / 66           | 68 / 67             | 73 / 72             |
| Sound pressure level* <sup>1</sup>     | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 38 / 33 / 29 / 25                   | 44 / 38 / 36 / 30 | 44 / 38 / 36 / 30   | 45 / 40 / 34 / 29   |
|  |         | Heating (P-Hi/Hi/Me/Lo) | 38 / 33 / 29 / 25                   | 44 / 38 / 36 / 30 | 44 / 38 / 36 / 30   | 45 / 40 / 34 / 29   |
| Air flow                               | Outdoor | Cooling/Heating         | 54 / 54                             | 55 / 53           | 56 / 54             | 57 / 57             |
|  |         | Indoor                  | Cooling (P-Hi/Hi/Me/Lo)             | 24 / 19 / 15 / 10 | 36 / 28 / 25 / 19   | 36 / 28 / 25 / 19   |
|  | Indoor  |                         | Heating (P-Hi/Hi/Me/Lo)             | 24 / 19 / 15 / 10 | 36 / 28 / 25 / 19   | 36 / 28 / 25 / 19   |
|  |         | Outdoor                 | Cooling/Heating                     | 42 / 42           | 59 / 55             | 63 / 55             |
| External static pressure* <sup>2</sup> |         | Pa                      | Standard:35 Max:100                 |                   |                     |                     |

| R410A                               |                 |                         | Standard Inverter                                 |                          |                          |
|-------------------------------------|-----------------|-------------------------|---|--------------------------|--------------------------|
| Set model name                      |                 |                         | FDUM71VNPVH                                       | FDUM90VNP1VH             | FDUM100VNP1VH            |
| Indoor unit                         |                 |                         | FDUM71VH  | FDUM100VH                | FDUM100VH                |
| Outdoor unit                        |                 |                         | FDC71VNP  | FDC90VNP1                | FDC100VNP                |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                          |                          |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 7.1 ( 1.4 ~ 7.1 )                                 | 9.0 ( 1.9 ~ 9.0 )        | 10.0 ( 2.8 ~ 11.2 )      |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 7.1 ( 1.0 ~ 7.1 )                                 | 9.0 ( 1.5 ~ 9.0 )        | 11.2 ( 2.5 ~ 12.5 )      |
| Power consumption                   | Cooling/Heating | kW                      | 2.60 / 1.89                                       | 2.69 / 2.25              | 3.00 / 2.93              |
| EER/COP                             | Cooling/Heating |                         | 2.73 / 3.76                                       | 3.35 / 4.00              | 3.33 / 3.82              |
| Inrush current                      |                 | A                       | 5   | 5                        | 5                        |
| Max. current                        |                 |                         | 14.5  | 18                       | 22                       |
| Sound power level*1                 | Indoor          | Cooling/Heating         | 65 / 65   | 65 / 65                  | 65 / 65                  |
|                                     | Outdoor         | Cooling/Heating         | 67 / 67   | 69 / 69                  | 70 / 70                  |
| Sound pressure level*1              | Indoor          | Cooling (P-Hi/Hi/Me/Lo) | 38 / 33 / 29 / 25                                 | 44 / 38 / 36 / 30        | 44 / 38 / 36 / 30        |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 38 / 33 / 29 / 25                                 | 44 / 38 / 36 / 30        | 44 / 38 / 36 / 30        |
| Air flow                            | Outdoor         | Cooling/Heating         | 54 / 54   | 57 / 55                  | 57 / 61                  |
|                                     |                 | Cooling (P-Hi/Hi/Me/Lo) | 24 / 19 / 15 / 10                                 | 36 / 28 / 25 / 19        | 36 / 28 / 25 / 19        |
|                                     | Indoor          | Heating (P-Hi/Hi/Me/Lo) | 24 / 19 / 15 / 10                                 | 36 / 28 / 25 / 19        | 36 / 28 / 25 / 19        |
|                                     |                 | Outdoor                 | Cooling/Heating                                   | 36 / 36                  | 63 / 49.5                |
| External static pressure*2          |                 | Pa                      | Standard:35 Max:100                               | Standard:60 Max:100      |                          |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | 280 x 950 x 635                                   | 280 x 1,370 x 740        |                          |
|                                     | Outdoor         |                         | 640 x 800(+71) x 290                              | 750 x 880(+88) x 340     | 845 x 970 x 370          |
| Net weight                          | Indoor          |                         | 34  | 54                       |                          |
|                                     | Outdoor         |                         | 45  | 57                       | 70                       |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 6.35(1/4") / 12.7(1/2")                           | 6.35(1/4") / 15.88(5/8") | 9.52(3/8") / 15.88(5/8") |
| Refrigerant line (one way) length   |                 | m                       | Max.30  |                          |                          |
| Vertical height differences         |                 | Outdoor is higher/lower | Max.20 / Max.20                                   |                          |                          |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~46*3  |                          |                          |
|                                     | Heating         | °CWB                    | -15~20  |                          |                          |
| Air filter (option)                 |                 |                         | Filter kit : UM-FL2EF                             | Filter kit : UM-FL3EF    |                          |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 |                          |                          |

# SRK

Indoor Unit  
Wall Mounted

**SRK 50•60**  
Only used with  
Multi System.



**SRK 71•100**  
Common to the  
both case of  
Single and Multi



**SRK 100**  
Only connected to  
R32 outdoor unit.

New



Wireless LAN Built-in



Remote control (option)

Wired



RC-EX3A



RC-E5



RCH-E3

Wireless



Wireless  
remote control

\*Not all functions available with all remote control options.

## Elegant Timeless Design

The SRK series air-conditioners have been innovatively designed with rounded contours that fit beautifully into any of Europe's diverse interior settings.

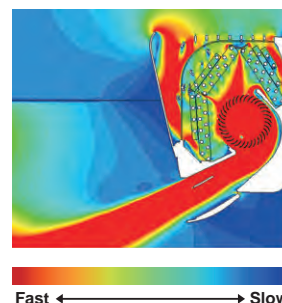
The design was created by the Italian industrial design studio Tensa srl, based in Milan, to respond to a broad spectrum of requirements.(SRK50•60)

## Jet Air Technology

We used the same aerodynamic analysis technology as used in developing jet engines.



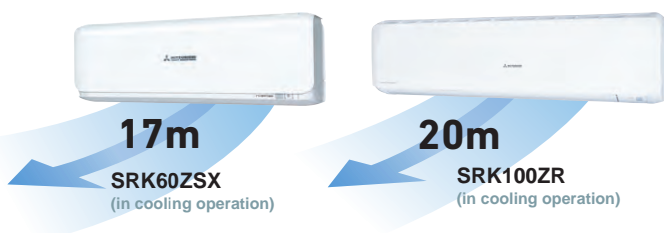
The jet air stream generated by this air channel system can bring large volumes of air without consuming a great amount of power. While at the same time, it delivers a consistent breeze evenly throughout the room.



Fast ← → Slow  
Colours in the figure show the air speed.

## Long Reach Air Flow

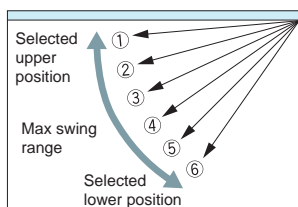
Long reach airflow is achieved by Jet technology.  
Good for large living rooms and shops, which increases comfort.



## Flap Control System

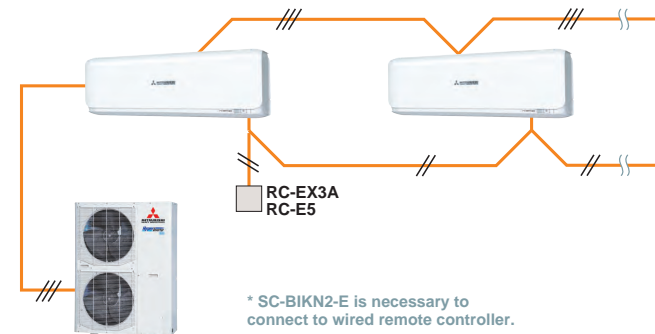
The flap can swing within the range of upper and lower flap position selected.

\* The wireless remote control is not applicable to the flap control system.



## Indoor Unit Connection

Up to three indoor units are connectable to one outdoor unit.















\* SC-BIKN2-E is necessary to connect to wired remote controller.

## SC-BIKN2-E connection (Option)

Interface kit can be built into indoor unit.(SRK50•60)

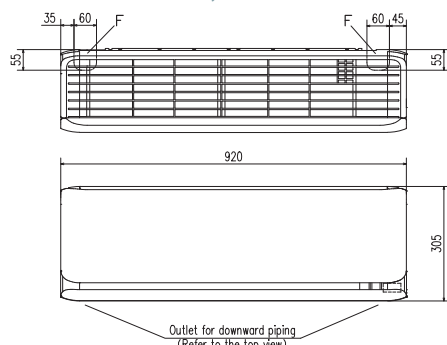
## OUTDOOR UNIT

|                             |   | Hyper Inverter  |   | Micro Inverter  |  |   |
|-----------------------------|---|---|---|---|--|---|
| FDC                         |  | 71VNX-W   | 100~140VN(S)X-W   | 100~140VN(S)A-W   | —  | 200VSA-W  |
|                             |  | —   | 100~140VN(S)X   | 100VN(S)A   | 200VSA   | —   |
| model                       |   |  |  |  |  |  |
| Chargeless                  |   | 30m   |   | 30m   |  |   |
| Height x Width x Depth (mm) |   | 750 x 880(+88) x 340  | 1,300 x 970 x 370   | 845 x 970 x 370   | 1,300 x 970 x 370  | 1,505 x 970 x 370   |

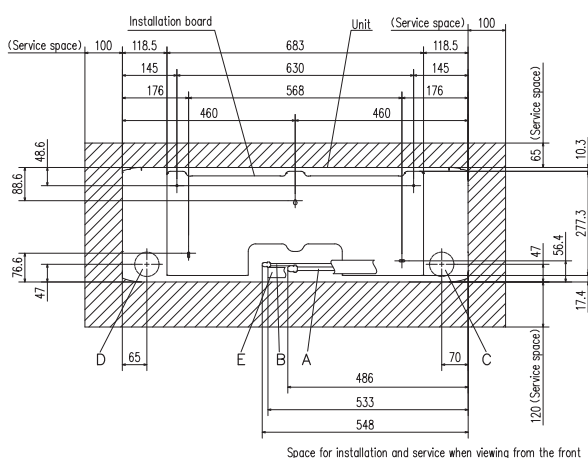
|                             |   | Standard Inverter   |   |   |
|-----------------------------|---|---|---|---|
| FDC                         |  | 71VNP-W   | 100VNP-W  | —   |
|                             |  | —   | —   | 100VNP  |
| model                       |   |  |  |  |
| Chargeless                  |   | 15m   |   |   |
| Height x Width x Depth (mm) |   | 640 x 800(+71) x 290  | 750 x 880(+88) x 340  | 845 x 970 x 370   |

## DIMENSIONS (Unit:mm) - SRK -

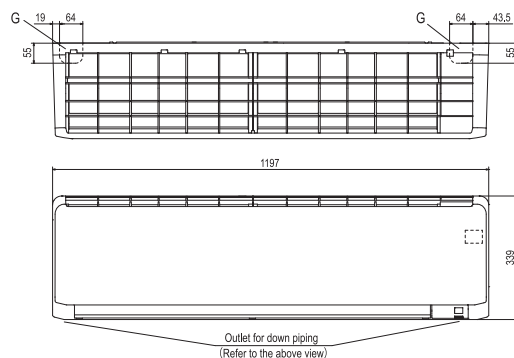
### Models SRK50ZSX-W, 60ZSX-W



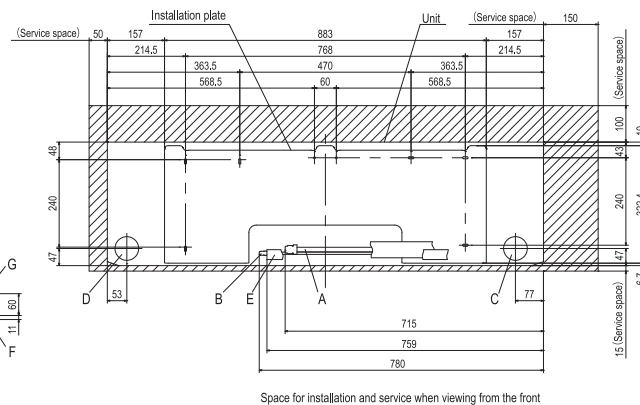
| Symbol | Content  |
|--------|--|
| A      | Gas piping $\phi 12.7 (1/2")$ (Flare)            |
| B      | Liquid piping $\phi 6.35 (1/4")$ (Flare)         |
| C      | Hole on wall for right rear piping ( $\phi 65$ ) |
| D      | Hole on wall for left rear piping ( $\phi 65$ )  |
| E      | Drain hose VP16                                  |
| F      | Outlet for piping                                |



### Models SRK71ZR-W, 100ZR-W, 100ZR-WF



| Symbol | Content   |
|--------|---|
| A      | Gas piping $\phi 15.88 (5/8")$ (Flare)  |
| B      | Liquid piping 71: $\phi 6.35 (1/4")$ (Flare)<br>100: $\phi 9.52 (3/8")$ (Flare) |
| C      | Hole on wall for right rear piping ( $\phi 65$ )                                |
| D      | Hole on wall for left rear piping ( $\phi 65$ )                                 |
| E      | Drain hose VP16   |
| F      | Outlet for wiring (on both side)  |
| G      | Outlet for piping (on both side)  |





## SPECIFICATIONS - SRK -

| R32                                 |            |                         | HyperInverter   |                           |                           |                                     |                           |
|-------------------------------------|------------|-------------------------|---|---------------------------|---------------------------|-------------------------------------|---------------------------|
| Set model name                      |            |                         | SRK71VNXWZR   | SRK100VNXWZRF             | SRK100VNXWZR              | SRK100VSXWZRF                       | SRK100VSXWZR              |
| Indoor unit                         |            |                         | SRK71ZR-W   | SRK100ZR-WF               | SRK100ZR-W                | SRK100ZR-WF                         | SRK100ZR-W                |
| Outdoor unit                        |            |                         | FDC71VNX-W  | FDC100VNX-W               | FDC100VNX-W               | FDC100VSX-W                         | FDC100VSX-W               |
| Power source                        |            |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                     |                           |                           | 3 Phase 380-415V, 50Hz / 380V, 60Hz |                           |
| Nominal cooling capacity (Min~Max)  |            | kW                      | 7.1 ( 3.2 ~ 8.0 )                                       | 10.0 ( 3.5 ~ 11.2 )       | 10.0 ( 3.5 ~ 11.2 )       | 10.0 ( 3.5 ~ 11.2 )                 | 10.0 ( 3.5 ~ 11.2 )       |
| Nominal heating capacity (Min~Max)  |            | kW                      | 8.0 ( 3.6 ~ 9.0 )                                       | 11.2 ( 2.7 ~ 12.5 )       | 11.2 ( 2.7 ~ 12.5 )       | 11.2 ( 2.7 ~ 16.0 )                 | 11.2 ( 2.7 ~ 16.0 )       |
| Power consumption                   |            | Cooling/Heating         | kW  | 1.93 / 1.78               | 2.74 / 3.04               | 2.74 / 3.04                         | 2.74 / 3.04               |
| EER/COP                             |            | Cooling/Heating         |   | 3.68 / 4.49               | 3.65 / 3.69               | 3.65 / 3.69                         | 3.65 / 3.69               |
| Inrush current                      |            | A                       |   | 5                         | 5                         | 5                                   | 5                         |
| Max. current                        |            |                         |   | 19.1                      | 25                        | 25                                  | 14                        |
| Sound power level*1                 | Indoor     | Cooling/Heating         | dB(A)   | 57 / 60                   | 63 / 63                   | 63 / 63                             | 63 / 63                   |
|                                     | Outdoor    | Cooling/Heating         |   | 66 / 66                   | 67 / 67                   | 67 / 67                             | 67 / 67                   |
| Sound pressure level*1              | Indoor     | Cooling (Hi/Me/Lo/Ulo)  |   | 44 / 41 / 37 / 25         | 48 / 45 / 40 / 27         | 48 / 45 / 40 / 27                   | 48 / 45 / 40 / 27         |
|                                     |            | Heating (Hi/Me/Lo/Ulo)  |   | 46 / 39 / 35 / 28         | 48 / 43 / 38 / 30         | 48 / 43 / 38 / 30                   | 48 / 43 / 38 / 30         |
| Air flow                            | Outdoor    | Cooling/Heating         |   | 51 / 51                   | 53 / 51                   | 53 / 51                             | 53 / 51                   |
|                                     |            |                         |   |                           |                           |                                     |                           |
|                                     | Indoor     | Cooling (Hi/Me/Lo/Ulo)  | m³/min  | 20.5 / 18.6 / 16.2 / 10.4 | 24.5 / 21.3 / 17.6 / 10.4 | 24.5 / 21.3 / 17.6 / 10.4           | 24.5 / 21.3 / 17.6 / 10.4 |
|                                     |            |                         | Heating (Hi/Me/Lo/Ulo)                                  | 25.0 / 19.8 / 17.3 / 13.3 | 27.5 / 23.2 / 19.1 / 13.6 | 27.5 / 23.2 / 19.1 / 13.6           | 27.5 / 23.2 / 19.1 / 13.6 |
| Exterior dimensions                 | Outdoor    | Cooling/Heating         |   | 60 / 50                   | 100 / 100                 | 100 / 100                           | 100 / 100                 |
|                                     | Indoor     | HeightxWidthxDepth      | mm  | 339 x 1,197 x 262         |                           |                                     |                           |
| Net weight                          | Outdoor    |                         |   | 1,300 x 970 x 370         |                           |                                     |                           |
|                                     | Indoor     |                         | kg  | 15.5                      | 16.5                      |                                     |                           |
| Ref.piping size                     | Outdoor    |                         |   | 60                        | 97                        | 99                                  |                           |
|                                     | Liquid/Gas | ømm                     | 9.52(3/8") / 15.88(5/8")                                |                           |                           |                                     |                           |
| Refrigerant line (one way) length   |            | m                       | Max.50  | Max.100                   |                           |                                     |                           |
| Vertical height differences         |            | Outdoor is higher/lower | m   | Max.30 / Max.15           | Max.50 / Max.15           |                                     |                           |
| Outdoor operating temperature range | Cooling    | °CDB                    | -15~50*2  |                           |                           |                                     |                           |
|                                     | Heating    | °CWB                    | -20~20  |                           |                           |                                     |                           |
| Air filter, Q'ty                    |            |                         | Polypropylene net x 2(washable)                         |                           |                           |                                     |                           |
| Remote control (option)             |            |                         | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                           |                           |                                     |                           |

The values are for simultaneous Multi operation.

| R32                                 |                         |                        | HyperInverter   |                          |                         |                   |
|-------------------------------------|-------------------------|------------------------|---|--------------------------|-------------------------|-------------------|
| Set model name                      |                         |                        | SRK100VNXWPZSX  | SRK125VNXWPZSX           | SRK140VNXWTZSX          |                   |
|                                     |                         |                        | Twin  |                          | Triple                  |                   |
| Indoor unit                         |                         |                        | SRK50ZSX-W x 2  | SRK60ZSX-W x 2           | SRK50ZSX-W x 3          |                   |
| Outdoor unit                        |                         |                        | FDC100VNX-W   | FDC125VNX-W              | FDC140VNX-W             |                   |
| Power source                        |                         |                        | 1 Phase 220-240V, 50Hz / 220V, 60Hz                     |                          |                         |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                     | 10.0 ( 3.5 ~ 11.2 )                                     | 12.5 ( 3.5 ~ 14.0 )      | 14.0 ( 3.5 ~ 16.0 )     |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                     | 11.2 ( 2.7 ~ 12.5 )                                     | 14.0 ( 2.7 ~ 17.0 )      | 16.0 ( 2.7 ~ 18.0 )     |                   |
| Power consumption                   | Cooling/Heating         | kW                     | 2.47 / 2.60   | 3.43 / 3.42              | 4.03 / 4.04             |                   |
| EER/COP                             | Cooling/Heating         |                        | 4.05 / 4.31   | 3.64 / 4.09              | 3.48 / 3.96             |                   |
| Inrush current                      |                         | A                      | 5   | 5                        | 5                       |                   |
| Max. current                        |                         |                        | 25  | 27                       | 27                      |                   |
| Sound power level*1                 | Indoor*3                | Cooling/Heating        | dB(A)   | 59 / 62                  | 62 / 63                 | 59 / 62           |
|                                     | Outdoor                 |                        |   | Cooling/Heating          | 67 / 67                 | 68 / 70           |
| Sound pressure level*1              | Indoor*3                | Cooling (Hi/Me/Lo/Ulo) |   | 44 / 39 / 31 / 22        | 46 / 41 / 33 / 22       | 44 / 39 / 31 / 22 |
|                                     | Outdoor                 | Heating (Hi/Me/Lo/Ulo) |   | 46 / 41 / 33 / 23        | 46 / 42 / 34 / 23       | 46 / 41 / 33 / 23 |
| Air flow                            | Indoor*3                | Cooling/Heating        | 53 / 51   | 53 / 54                  | 54 / 54                 |                   |
|                                     |                         | Cooling (Hi/Me/Lo/Ulo) | 14.3/ 12.4 / 7.8 / 5.4                                  | 16.3 / 13.4 / 8.9 / 5.4  | 14.3 / 12.4 / 7.8 / 5.4 |                   |
|                                     | Outdoor                 | Heating (Hi/Me/Lo/Ulo) | 17.3 / 14.3 / 9.8 / 6.2                                 | 17.8 / 13.7 / 10.9 / 6.2 | 17.3 / 14.3 / 9.8 / 6.2 |                   |
| Exterior dimensions                 | Indoor                  | Cooling/Heating        | 100 / 100   | 100 / 100                | 100 / 100               |                   |
|                                     | Outdoor                 | HeightxWidthxDepth     | mm  | 305 x 920 x 220          | 305 x 920 x 220         |                   |
| Net weight                          | Indoor                  |                        |   | 1,300 x 970 x 370        | 1,300 x 970 x 370       |                   |
|                                     | Outdoor                 |                        | kg  | 13                       | 13                      |                   |
| Ref.piping size                     | Liquid/Gas              | ømm                    | 9.52(3/8") / 15.88(5/8")                                |                          |                         |                   |
| Refrigerant line (one way) length   |                         | m                      | Max.100   |                          | Max.65                  |                   |
| Vertical height differences         | Outdoor is higher/lower | m                      | Max.50 / Max.15   |                          |                         |                   |
| Outdoor operating temperature range | Cooling                 | °CDB                   | -15~50*2  |                          |                         |                   |
|                                     | Heating                 | °CWB                   | -20~20  |                          |                         |                   |
| Air filter, Q'ty                    |                         |                        | Polypropylene net x 2(washable)                         |                          |                         |                   |
| Remote control (option)             |                         |                        | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                          |                         |                   |

### NOTES:

The data are measured under the following conditions (R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

SRK

Indoor Unit

| R32                                 |                 |                         | HyperInverter   |                          |                         |
|-------------------------------------|-----------------|-------------------------|---|--------------------------|-------------------------|
| Set model name                      |                 |                         | SRK100VSXWPZSX  | SRK125VSXWPZSX           | SRK140VSXWTZSX          |
|                                     |                 |                         | Twin  |                          | Triple                  |
| Indoor unit                         |                 |                         | SRK50ZSX-W x 2  | SRK60ZSX-W x 2           | SRK50ZSX-W x 3          |
| Outdoor unit                        |                 |                         | FDC100VSX-W   | FDC125VSX-W              | FDC140VSX-W             |
| Power source                        |                 |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                     |                          |                         |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 10.0 ( 3.5 ~ 11.2 )                                     | 12.5 ( 3.5 ~ 14.0 )      | 14.0 ( 3.5 ~ 16.0 )     |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 11.2 ( 2.7 ~ 12.5 )                                     | 14.0 ( 2.7 ~ 18.0 )      | 16.0 ( 2.7 ~ 20.0 )     |
| Power consumption                   | Cooling/Heating | kW                      | 2.47 / 2.60   | 3.43 / 3.42              | 4.03 / 4.04             |
| EER/COP                             | Cooling/Heating |                         | 4.05 / 4.31   | 3.64 / 4.09              | 3.48 / 3.96             |
| Inrush current                      | A               |                         | 5   | 5                        | 5                       |
| Max. current                        |                 |                         | 14  | 14                       | 14                      |
| Sound power level*1                 | Indoor*3        | Cooling/Heating         | 59 / 62   | 62 / 63                  | 59 / 62                 |
|                                     | Outdoor         | Cooling/Heating         | 67 / 67   | 68 / 70                  | 69 / 71                 |
| Sound pressure level*1              | Indoor*3        | Cooling (Hi/Me/Lo/Ulo)  | 44 / 39 / 31 / 22                                       | 46 / 41 / 33 / 22        | 44 / 39 / 31 / 22       |
|                                     |                 | Heating (Hi/Me/Lo/Ulo)  | 46 / 41 / 33 / 23                                       | 46 / 42 / 34 / 23        | 46 / 41 / 33 / 23       |
|                                     | Outdoor         | Cooling/Heating         | 53 / 51   | 53 / 54                  | 54 / 54                 |
| Air flow                            | Indoor*3        | Cooling (Hi/Me/Lo/Ulo)  | 14.3 / 12.4 / 7.8 / 5.4                                 | 16.3 / 13.4 / 8.9 / 5.4  | 14.3 / 12.4 / 7.8 / 5.4 |
|                                     |                 | Heating (Hi/Me/Lo/Ulo)  | 17.3 / 14.3 / 9.8 / 6.2                                 | 17.8 / 13.7 / 10.9 / 6.2 | 17.3 / 14.3 / 9.8 / 6.2 |
|                                     | Outdoor         | Cooling/Heating         | 100 / 100   | 100 / 100                | 100 / 100               |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | 305 x 920 x 220   |                          |                         |
|                                     | Outdoor         |                         | 1,300 x 970 x 370                                       |                          |                         |
| Net weight                          | Indoor          |                         | 13  |                          |                         |
|                                     | Outdoor         |                         | 99  |                          |                         |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 9.52(3/8") / 15.88(5/8")                                |                          |                         |
| Refrigerant line (one way) length   |                 | m                       | Max.100   |                          | Max.65                  |
| Vertical height differences         |                 | Outdoor is higher/lower | Max.50 / Max.15   |                          |                         |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~50*2  |                          |                         |
|                                     | Heating         | °CWB                    | -20~20  |                          |                         |
| Air filter, Q'ty                    |                 |                         | Polypropylene net x 2(washable)                         |                          |                         |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                          |                         |

The values are for simultaneous Multi operation.

| R410A                               |                 |                         | HyperInverter   |                          |                         |
|-------------------------------------|-----------------|-------------------------|---|--------------------------|-------------------------|
| Set model name                      |                 |                         | SRK100VNXZPSX   | SRK125VNXZPSX            | SRK140VNXZTZX           |
|                                     |                 |                         | Twin  |                          | Triple                  |
| Indoor unit                         |                 |                         | SRK50ZSX-W x 2  | SRK60ZSX-W x 2           | SRK50ZSX-W x 3          |
| Outdoor unit                        |                 |                         | FDC100VNX   | FDC125VNX                | FDC140VNX               |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                     |                          |                         |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 10.0 ( 4.0 ~ 11.2 )                                     | 12.5 ( 5.0 ~ 14.0 )      | 14.0 ( 5.0 ~ 16.0 )     |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 11.2 ( 4.0 ~ 12.5 )                                     | 14.0 ( 4.0 ~ 17.0 )      | 16.0 ( 4.0 ~ 18.0 )     |
| Power consumption                   | Cooling/Heating | kW                      | 2.66 / 2.60   | 3.60 / 3.48              | 3.98 / 3.68             |
| EER/COP                             | Cooling/Heating |                         | 3.76 / 4.31   | 3.47 / 4.02              | 3.52 / 4.35             |
| Inrush current                      | A               |                         | 5   | 5                        | 5                       |
| Max. current                        |                 |                         | 24  | 26                       | 26                      |
| Sound power level*1                 | Indoor*3        | Cooling/Heating         | 59 / 62   | 62 / 63                  | 59 / 62                 |
|                                     | Outdoor         | Cooling/Heating         | 70 / 70   | 70 / 70                  | 72 / 72                 |
| Sound pressure level*1              | Indoor*3        | Cooling (Hi/Me/Lo/Ulo)  | 44 / 39 / 31 / 22                                       | 46 / 41 / 33 / 22        | 44 / 39 / 31 / 22       |
|                                     |                 | Heating (Hi/Me/Lo/Ulo)  | 46 / 41 / 33 / 23                                       | 46 / 42 / 34 / 23        | 46 / 41 / 33 / 23       |
|                                     | Outdoor         | Cooling/Heating         | 48 / 50   | 48 / 50                  | 49 / 52                 |
| Air flow                            | Indoor*3        | Cooling (Hi/Me/Lo/Ulo)  | 14.3 / 12.4 / 7.8 / 5.4                                 | 16.3 / 13.4 / 8.9 / 5.4  | 14.3 / 12.4 / 7.8 / 5.4 |
|                                     |                 | Heating (Hi/Me/Lo/Ulo)  | 17.3 / 14.3 / 9.8 / 6.2                                 | 17.8 / 13.7 / 10.9 / 6.2 | 17.3 / 14.3 / 9.8 / 6.2 |
|                                     | Outdoor         | Cooling/Heating         | 100 / 100   | 100 / 100                | 100 / 100               |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | 305 x 920 x 220   |                          |                         |
|                                     | Outdoor         |                         | 1,300 x 970 x 370                                       |                          |                         |
| Net weight                          | Indoor          |                         | 13  |                          |                         |
|                                     | Outdoor         |                         | 105   |                          |                         |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 9.52(3/8") / 15.88(5/8")                                |                          |                         |
| Refrigerant line (one way) length   |                 | m                       | Max.100   |                          |                         |
| Vertical height differences         |                 | Outdoor is higher/lower | Max.30 / Max.15   |                          |                         |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~43*2  |                          |                         |
|                                     | Heating         | °CWB                    | -20~20  |                          |                         |
| Air filter, Q'ty                    |                 |                         | Polypropylene net x 2(washable)                         |                          |                         |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                          |                         |

## SPECIFICATIONS - SRK -

The values are for simultaneous Multi operation.

| R410A                               |                         |                        | Hyper Inverter  |                          |                         |
|-------------------------------------|-------------------------|------------------------|---|--------------------------|-------------------------|
| Set model name                      |                         |                        | SRK100VSPZSX  | SRK125VSPZSX             | SRK140VSTZSX            |
|                                     |                         |                        | Twin  |                          | Triple                  |
| Indoor unit                         |                         |                        | SRK50ZSX-W x 2  | SRK60ZSX-W x 2           | SRK50ZSX-W x 3          |
| Outdoor unit                        |                         |                        | FDC100VSX   | FDC125VSX                | FDC140VSX               |
| Power source                        |                         |                        | 3 Phase 380-415V, 50Hz / 380V, 60Hz                     |                          |                         |
| Nominal cooling capacity (Min~Max)  |                         | kW                     | 10.0 ( 4.0 ~ 11.2 )                                     | 12.5 ( 5.0 ~ 14.0 )      | 14.0 ( 5.0 ~ 16.0 )     |
| Nominal heating capacity (Min~Max)  |                         | kW                     | 11.2 ( 4.0 ~ 16.0 )                                     | 14.0 ( 4.0 ~ 18.0 )      | 16.0 ( 4.0 ~ 20.0 )     |
| Power consumption                   | Cooling/Heating         | kW                     | 2.66 / 2.60   | 3.60 / 3.48              | 3.98 / 3.68             |
| EER/COP                             | Cooling/Heating         |                        | 3.76 / 4.31   | 3.47 / 4.02              | 3.52 / 4.35             |
| Inrush current                      | A                       |                        | 5   | 5                        | 5                       |
| Max. current                        |                         |                        | 15  | 15                       | 15                      |
| Sound power level*1                 | Indoor*3                | Cooling/Heating        | 59 / 62   | 62 / 63                  | 59 / 62                 |
|                                     | Outdoor                 | Cooling/Heating        | 70 / 70   | 70 / 70                  | 72 / 72                 |
| Sound pressure level*1              | Indoor*3                | Cooling (Hi/Me/Lo/Ulo) | 44 / 39 / 31 / 22                                       | 46 / 41 / 33 / 22        | 44 / 39 / 31 / 22       |
|                                     |                         | Heating (Hi/Me/Lo/Ulo) | 46 / 41 / 33 / 23                                       | 46 / 42 / 34 / 23        | 46 / 41 / 33 / 23       |
|                                     | Outdoor                 | Cooling/Heating        | 48 / 50   | 48 / 50                  | 49 / 52                 |
| Air flow                            | Indoor*3                | Cooling (Hi/Me/Lo/Ulo) | 14.3 / 12.4 / 7.8 / 5.4                                 | 16.3 / 13.4 / 8.9 / 5.4  | 14.3 / 12.4 / 7.8 / 5.4 |
|                                     |                         | Heating (Hi/Me/Lo/Ulo) | 17.3 / 14.3 / 9.8 / 6.2                                 | 17.8 / 13.7 / 10.9 / 6.2 | 17.3 / 14.3 / 9.8 / 6.2 |
|                                     | Outdoor                 | Cooling/Heating        | 100 / 100   | 100 / 100                | 100 / 100               |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth     | 305 x 920 x 220   |                          |                         |
|                                     | Outdoor                 |                        | 1,300 x 970 x 370                                       |                          |                         |
| Net weight                          | Indoor                  |                        | 13  |                          |                         |
|                                     | Outdoor                 |                        | 105   |                          |                         |
| Ref.piping size                     | Liquid/Gas              | ømm                    | 9.52(3/8") / 15.88(5/8")                                |                          |                         |
| Refrigerant line (one way) length   |                         | m                      | Max.100   |                          |                         |
| Vertical height differences         | Outdoor is higher/lower | m                      | Max.30 / Max.15   |                          |                         |
| Outdoor operating temperature range | Cooling                 | °CDB                   | -15~43*2  |                          |                         |
|                                     | Heating                 | °CWB                   | -20~20  |                          |                         |
| Air filter, Q'ty                    |                         |                        | Polypropylene net x 2(washable)                         |                          |                         |
| Remote control (option)             |                         |                        | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                          |                         |

| R32                                 |                         |                          | Micro Inverter  |                          |                                     |                          |
|-------------------------------------|-------------------------|--------------------------|---|--------------------------|-------------------------------------|--------------------------|
| Set model name                      |                         |                          | SRK100VNAWZRF   | SRK100VNAWZR             | SRK100VSAWZRF                       | SRK100VSAWZR             |
| Indoor unit                         |                         |                          | SRK100ZR-WF   | SRK100ZR-W               | SRK100ZR-WF                         | SRK100ZR-W               |
| Outdoor unit                        |                         |                          | FDC100VNA-W   | FDC100VNA-W              | FDC100VSA-W                         | FDC100VSA-W              |
| Power source                        |                         |                          | 1 Phase 220-240V, 50Hz / 220V, 60Hz                     |                          | 3 Phase 380-415V, 50Hz / 380V, 60Hz |                          |
| Nominal cooling capacity (Min~Max)  |                         | kW                       | 10.0 ( 4.0 ~ 11.2 )                                     | 10.0 ( 4.0 ~ 11.2 )      | 10.0 ( 4.0 ~ 11.2 )                 | 10.0 ( 4.0 ~ 11.2 )      |
| Nominal heating capacity (Min~Max)  |                         | kW                       | 11.2 ( 4.0 ~ 12.5 )                                     | 11.2 ( 4.0 ~ 12.5 )      | 11.2 ( 4.0 ~ 12.5 )                 | 11.2 ( 4.0 ~ 12.5 )      |
| Power consumption                   | Cooling/Heating         | kW                       | 3.19 / 3.04   | 3.19 / 3.04              | 3.19 / 3.04                         | 3.19 / 3.04              |
| EER/COP                             | Cooling/Heating         |                          | 3.13 / 3.68   | 3.13 / 3.68              | 3.13 / 3.68                         | 3.13 / 3.68              |
| Inrush current                      |                         | A                        | 5   | 5                        | 5                                   | 5                        |
| Max. current                        |                         |                          | 24  | 24                       | 15                                  | 15                       |
| Sound power level*1                 | Indoor                  | Cooling/Heating          | dB(A)   | 63 / 63                  | 63 / 63                             | 63 / 63                  |
|                                     | Outdoor                 | Cooling/Heating          |   | 69 / 70                  | 69 / 70                             | 69 / 70                  |
| Sound pressure level*1              | Indoor                  | Cooling (Hi/Me/Lo/Ulo)   |   | 48 / 45 / 40 / 27        | 48 / 45 / 40 / 27                   | 48 / 45 / 40 / 27        |
|                                     |                         | Heating (Hi/Me/Lo/Ulo)   |   | 48 / 43 / 38 / 30        | 48 / 43 / 38 / 30                   | 48 / 43 / 38 / 30        |
| Air flow                            | Outdoor                 | Cooling/Heating          |   | 54 / 55                  | 54 / 55                             | 54 / 55                  |
|                                     |                         | Cooling (Hi/Me/Lo/Ulo)   | m³/min  | 24.5 / 21.3 / 17.6/ 10.4 | 24.5 / 21.3 / 17.6/ 10.4            | 24.5 / 21.3 / 17.6/ 10.4 |
|                                     | Heating (Hi/Me/Lo/Ulo)  | 27.5 / 23.2 / 19.1/ 13.6 |   | 27.5 / 23.2 / 19.1/ 13.6 | 27.5 / 23.2 / 19.1/ 13.6            |                          |
|                                     | Outdoor                 | Cooling/Heating          |   | 75 / 73                  | 75 / 73                             | 75 / 73                  |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth       | mm  | 339 x 1,197 x 262        |                                     |                          |
|                                     | Outdoor                 |                          |   | 845 x 970 x 370          |                                     |                          |
| Net weight                          | Indoor                  |                          | kg  | 16.5                     |                                     |                          |
|                                     | Outdoor                 |                          |   | 77                       | 78                                  |                          |
| Ref.piping size                     | Liquid/Gas              | ømm                      | 9.52(3/8") / 15.88(5/8")                                |                          |                                     |                          |
| Refrigerant line (one way) length   |                         | m                        | Max.50  |                          |                                     |                          |
| Vertical height differences         | Outdoor is higher/lower | m                        | Max.50 / Max.15   |                          |                                     |                          |
| Outdoor operating temperature range | Cooling                 | °CDB                     | -15~50*2  |                          |                                     |                          |
|                                     | Heating                 | °CWB                     | -20~20  |                          |                                     |                          |
| Air filter, Q'ty                    |                         |                          | Polypropylene net x2 (Washable)                         |                          |                                     |                          |
| Remote control (option)             |                         |                          | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                          |                                     |                          |

### NOTES:

The data are measured under the following conditions (R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

**SRK** | Indoor Unit

| R32                                 |                         |                        | Micro Inverter  |                          |                           |                         |
|-------------------------------------|-------------------------|------------------------|---|--------------------------|---------------------------|-------------------------|
| Set model name                      |                         |                        | SRK100VNAWPZSX  | SRK125VNAWPZSX           | SRK140VNAWPZR             | SRK140VNAWTZSX          |
|                                     |                         |                        | Twin  |                          | Triple                    |                         |
| Indoor unit                         |                         |                        | SRK50ZSX-W x 2  | SRK60ZSX-W x 2           | SRK71ZR-W x 2             | SRK50ZSX-W x 3          |
| Outdoor unit                        |                         |                        | FDC100VNA-W   | FDC125VNA-W              | FDC140VNA-W               | FDC140VNA-W             |
| Power source                        |                         |                        | 1 Phase 220-240V, 50Hz / 220V, 60Hz                     |                          |                           |                         |
| Nominal cooling capacity (Min~Max)  |                         | kW                     | 10.0 ( 4.0 ~ 11.2 )                                     | 12.5 ( 5.0 ~ 14.0 )      | 13.6 ( 5.0 ~ 14.5 )       | 13.6 ( 5.0 ~ 14.5 )     |
| Nominal heating capacity (Min~Max)  |                         | kW                     | 11.2 ( 4.0 ~ 12.5 )                                     | 14.0 ( 4.0 ~ 16.0 )      | 15.5 ( 4.0 ~ 16.5 )       | 15.5 ( 4.0 ~ 16.5 )     |
| Power consumption                   | Cooling/Heating         | kW                     | 2.89 / 2.61   | 4.54 / 3.58              | 4.26 / 4.03               | 4.26 / 3.74             |
| EER/COP                             | Cooling/Heating         |                        | 3.46 / 4.29   | 2.76 / 3.91              | 3.19 / 3.85               | 3.19 / 4.14             |
| Inrush current                      |                         | A                      | 5   | 5                        | 5                         | 5                       |
| Max. current                        |                         |                        | 24  | 24                       | 24                        | 24                      |
| Sound power level*1                 | Indoor*3                | Cooling/Heating        | 59 / 62   | 62 / 63                  | 57 / 60                   | 59 / 62                 |
|                                     | Outdoor                 | Cooling/Heating        | 69 / 70   | 71 / 71                  | 72 / 73                   | 72 / 73                 |
| Sound pressure level*1              | Indoor*3                | Cooling (Hi/Me/Lo/Ulo) | 44 / 39 / 31 / 22                                       | 46 / 41 / 33 / 22        | 44 / 41 / 37 / 25         | 44 / 39 / 31 / 22       |
|                                     |                         | Heating (Hi/Me/Lo/Ulo) | 46 / 41 / 33 / 23                                       | 46 / 42 / 34 / 23        | 46 / 39 / 35 / 28         | 46 / 41 / 33 / 23       |
|                                     | Outdoor                 | Cooling/Heating        | 54 / 55   | 54 / 56                  | 56 / 58                   | 56 / 58                 |
| Air flow                            | Indoor*3                | Cooling (Hi/Me/Lo/Ulo) | 14.3 / 12.4 / 7.8 / 5.4                                 | 16.3 / 13.4 / 8.9 / 5.4  | 20.5 / 18.6 / 16.2 / 10.4 | 14.3 / 12.4 / 7.8 / 5.4 |
|                                     |                         | Heating (Hi/Me/Lo/Ulo) | 17.3 / 14.3 / 9.8 / 6.2                                 | 17.8 / 13.7 / 10.9 / 6.2 | 25.0 / 19.8 / 17.3 / 13.3 | 17.3 / 14.3 / 9.8 / 6.2 |
|                                     | Outdoor                 | Cooling/Heating        | 75 / 73   | 75 / 73                  | 75 / 73                   | 75 / 73                 |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth     | 305 x 920 x 220   |                          | 339 x 1197 x 262          | 305 x 920 x 220         |
|                                     | Outdoor                 |                        | 845 x 970 x 370   |                          |                           |                         |
| Net weight                          | Indoor                  |                        | 13  |                          | 15.5                      | 13                      |
|                                     | Outdoor                 |                        | 77  |                          |                           |                         |
| Ref.piping size                     | Liquid/Gas              | ømm                    | 9.52(3/8") / 15.88(5/8")                                |                          |                           |                         |
| Refrigerant line (one way) length   |                         | m                      | Max.50  |                          |                           |                         |
| Vertical height differences         | Outdoor is higher/lower | m                      | Max.50 / Max.15   |                          |                           |                         |
| Outdoor operating temperature range | Cooling                 | °CDB                   | -15~50*2  |                          |                           |                         |
|                                     | Heating                 | °CWB                   | -20~20  |                          |                           |                         |
| Air filter, Q'ty                    |                         |                        | Polypropylene net x 2(washable)                         |                          |                           |                         |
| Remote control (option)             |                         |                        | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                          |                           |                         |

The values are for simultaneous Multi operation.

| R32                                 |                         |                        | Micro Inverter  |                          |                           |                         |
|-------------------------------------|-------------------------|------------------------|---|--------------------------|---------------------------|-------------------------|
| Set model name                      |                         |                        | SRK100VSAWPZSX  | SRK125VSAWPZSX           | SRK140VSAWPZR             | SRK140VSAWTZSX          |
|                                     |                         |                        | Twin  |                          | Triple                    |                         |
| Indoor unit                         |                         |                        | SRK50ZSX-W x 2  | SRK60ZSX-W x 2           | SRK71ZR-W x 2             | SRK50ZSX-W x 3          |
| Outdoor unit                        |                         |                        | FDC100VSA-W   | FDC125VSA-W              | FDC140VSA-W               | FDC140VSA-W             |
| Power source                        |                         |                        | 3 Phase 380-415V, 50Hz / 380V, 60Hz                     |                          |                           |                         |
| Nominal cooling capacity (Min~Max)  |                         | kW                     | 10.0 ( 4.0 ~ 11.2 )                                     | 12.5 ( 5.0 ~ 14.0 )      | 13.6 ( 5.0 ~ 14.5 )       | 13.6 ( 5.0 ~ 14.5 )     |
| Nominal heating capacity (Min~Max)  |                         | kW                     | 11.2 ( 4.0 ~ 12.5 )                                     | 14.0 ( 4.0 ~ 16.0 )      | 15.5 ( 4.0 ~ 16.5 )       | 15.5 ( 4.0 ~ 16.5 )     |
| Power consumption                   | Cooling/Heating         | kW                     | 2.89 / 2.61   | 4.54 / 3.58              | 4.26 / 4.03               | 4.26 / 3.74             |
| EER/COP                             | Cooling/Heating         |                        | 3.46 / 4.29   | 2.76 / 3.91              | 3.19 / 3.85               | 3.19 / 4.14             |
| Inrush current                      |                         | A                      | 5   | 5                        | 5                         | 5                       |
| Max. current                        |                         |                        | 15  | 15                       | 15                        | 15                      |
| Sound power level*1                 | Indoor*3                | Cooling/Heating        | 59 / 62   | 62 / 63                  | 57 / 60                   | 59 / 62                 |
|                                     | Outdoor                 | Cooling/Heating        | 69 / 70   | 71 / 71                  | 72 / 73                   | 72 / 73                 |
| Sound pressure level*1              | Indoor*3                | Cooling (Hi/Me/Lo/Ulo) | 44 / 39 / 31 / 22                                       | 46 / 41 / 33 / 22        | 44 / 41 / 37 / 25         | 44 / 39 / 31 / 22       |
|                                     |                         | Heating (Hi/Me/Lo/Ulo) | 46 / 41 / 33 / 23                                       | 46 / 42 / 34 / 23        | 46 / 39 / 35 / 28         | 46 / 41 / 33 / 23       |
|                                     | Outdoor                 | Cooling/Heating        | 54 / 55   | 54 / 56                  | 56 / 58                   | 56 / 58                 |
| Air flow                            | Indoor*3                | Cooling (Hi/Me/Lo/Ulo) | 14.3 / 12.4 / 7.8 / 5.4                                 | 16.3 / 13.4 / 8.9 / 5.4  | 20.5 / 18.6 / 16.2 / 10.4 | 14.3 / 12.4 / 7.8 / 5.4 |
|                                     |                         | Heating (Hi/Me/Lo/Ulo) | 17.3 / 14.3 / 9.8 / 6.2                                 | 17.8 / 13.7 / 10.9 / 6.2 | 25.0 / 19.8 / 17.3 / 13.3 | 17.3 / 14.3 / 9.8 / 6.2 |
|                                     | Outdoor                 | Cooling/Heating        | 75 / 73   | 75 / 73                  | 75 / 73                   | 75 / 73                 |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth     | 305 x 920 x 220   |                          | 339 x 1197 x 262          | 305 x 920 x 220         |
|                                     | Outdoor                 |                        | 845 x 970 x 370   |                          |                           |                         |
| Net weight                          | Indoor                  |                        | 13  |                          | 15.5                      | 13                      |
|                                     | Outdoor                 |                        | 78  |                          |                           |                         |
| Ref.piping size                     | Liquid/Gas              | ømm                    | 9.52(3/8") / 15.88(5/8")                                |                          |                           |                         |
| Refrigerant line (one way) length   |                         | m                      | Max.50  |                          |                           |                         |
| Vertical height differences         | Outdoor is higher/lower | m                      | Max.50 / Max.15   |                          |                           |                         |
| Outdoor operating temperature range | Cooling                 | °CDB                   | -15~50*2  |                          |                           |                         |
|                                     | Heating                 | °CWB                   | -20~20  |                          |                           |                         |
| Air filter, Q'ty                    |                         |                        | Polypropylene net x 2(washable)                         |                          |                           |                         |
| Remote control (option)             |                         |                        | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                          |                           |                         |



## SPECIFICATIONS - SRK -

| R32                                 |         |                        | Micro Inverter  |                           |
|-------------------------------------|---------|------------------------|---|---------------------------|
| Set model name                      |         |                        | SRK200VSAWPZRF  | SRK200VSAWPZR             |
| Indoor unit                         |         |                        | SRK100ZR-WF x 2   | SRK100ZR-W x 2            |
| Outdoor unit                        |         |                        | FDC200VSA-W   | FDC200VSA-W               |
| Power source                        |         |                        | 3 Phase 380-415V, 50Hz / 380V, 60Hz                     |                           |
| Nominal cooling capacity (Min~Max)  |         |                        | 20.0 ( 7.0 ~ 22.4 )                                     | 20.0 ( 7.0 ~ 22.4 )       |
| Nominal heating capacity (Min~Max)  |         |                        | 22.4 ( 6.6 ~ 25.0 )                                     | 22.4 ( 6.6 ~ 25.0 )       |
| Power consumption                   |         |                        | 7.46 / 6.87   | 7.46 / 6.87               |
| EER/COP                             |         |                        | 2.68 / 3.26   | 2.68 / 3.26               |
| Inrush current                      |         |                        | 5   | 5                         |
| Max. current                        |         |                        | 19  | 19                        |
| Sound power level*1                 | Indoor  | Cooling/Heating        | 63 / 63   | 63 / 63                   |
|                                     | Outdoor | Cooling/Heating        | 72 / 74   | 72 / 74                   |
| Sound pressure level*1              | Indoor  | Cooling (Hi/Me/Lo/Ulo) | 48 / 45 / 40 / 27                                       | 48 / 45 / 40 / 27         |
|                                     | Indoor  | Heating (Hi/Me/Lo/Ulo) | 48 / 43 / 38 / 30                                       | 48 / 43 / 38 / 30         |
|                                     | Outdoor | Cooling/Heating        | 58 / 59   | 58 / 59                   |
|                                     | Outdoor | Cooling (Hi/Me/Lo/Ulo) | 24.5 / 21.3 / 17.6 / 10.4                               | 24.5 / 21.3 / 17.6 / 10.4 |
|                                     | Outdoor | Heating (Hi/Me/Lo/Ulo) | 27.5 / 23.2 / 19.1 / 13.6                               | 27.5 / 23.2 / 19.1 / 13.6 |
| Air flow                            |         |                        | 148 / 134   | 148 / 134                 |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth     | 339 x 1,197 x 262                                       |                           |
|                                     | Outdoor | HeightxWidthxDepth     | 1,505 x 970 x 370                                       |                           |
| Net weight                          | Indoor  |                        | 16.5  |                           |
|                                     | Outdoor |                        | 144   |                           |
| Ref.piping size                     |         |                        | 9.52(3/8") / 22.22(7/8")                                |                           |
| Refrigerant line (one way) length   |         |                        | Max.70  |                           |
| Vertical height differences         |         |                        | Max.50 <sup>4</sup> / Max.15                            |                           |
| Outdoor operating temperature range | Cooling | °CDB                   | -15~50 <sup>2</sup>                                     |                           |
|                                     | Heating | °CWB                   | -20~20  |                           |
| Air filter, Q'ty                    |         |                        | Polypropylene net x2 (Washable)                         |                           |
| Remote control (option)             |         |                        | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                           |

The values are for simultaneous Multi operation.

| R410A                               |          |                        | Micro Inverter  |                                     |                           |
|-------------------------------------|----------|------------------------|---|-------------------------------------|---------------------------|
| Set model name                      |          |                        | SRK100VNAZR   | SRK100VSAZR                         | SRK200VSAPZR              |
| Indoor unit                         |          |                        | SRK100ZR-W  | SRK100ZR-W                          | SRK100ZR-W x 2            |
| Outdoor unit                        |          |                        | FDC100VNA   | FDC100VSA                           | FDC200VSA                 |
| Power source                        |          |                        | 1 Phase 220-240V, 50Hz / 220V, 60Hz                     | 3 Phase 380-415V, 50Hz / 380V, 60Hz |                           |
| Nominal cooling capacity (Min~Max)  |          |                        | 10.0 ( 4.0 ~ 11.2 )                                     | 10.0 ( 4.0 ~ 11.2 )                 | 19.0 ( 5.2 ~ 22.4 )       |
| Nominal heating capacity (Min~Max)  |          |                        | 11.2 ( 4.0 ~ 12.5 )                                     | 11.2 ( 4.0 ~ 12.5 )                 | 22.4 ( 3.3 ~ 25.0 )       |
| Power consumption                   |          |                        | 3.19 / 2.78   | 3.19 / 2.78                         | 7.52 / 7.41               |
| EER/COP                             |          |                        | 3.13 / 4.03   | 3.13 / 4.03                         | 2.53 / 3.02               |
| Inrush current                      |          |                        | 5   | 5                                   | 5                         |
| Max. current                        |          |                        | 24  | 15                                  | 20                        |
| Sound power level*1                 | Indoor*3 | Cooling/Heating        | 63 / 63   | 63 / 63                             | 63 / 63                   |
|                                     | Outdoor  | Cooling/Heating        | 70 / 70   | 70 / 70                             | 72 / 74                   |
| Sound pressure level*1              | Indoor*3 | Cooling (Hi/Me/Lo/Ulo) | 48 / 45 / 40 / 27                                       | 48 / 45 / 40 / 27                   | 48 / 45 / 40 / 27         |
|                                     | Indoor*3 | Heating (Hi/Me/Lo/Ulo) | 48 / 43 / 38 / 30                                       | 48 / 43 / 38 / 30                   | 48 / 43 / 38 / 30         |
|                                     | Outdoor  | Cooling/Heating        | 54 / 56   | 54 / 56                             | 58 / 59                   |
|                                     | Outdoor  | Cooling (Hi/Me/Lo/Ulo) | 24.5 / 21.3 / 17.6 / 10.4                               | 24.5 / 21.3 / 17.6 / 10.4           | 24.5 / 21.3 / 17.6 / 10.4 |
|                                     | Outdoor  | Heating (Hi/Me/Lo/Ulo) | 27.5 / 23.2 / 19.1 / 13.6                               | 27.5 / 23.2 / 19.1 / 13.6           | 27.5 / 23.2 / 19.1 / 13.6 |
| Air flow                            |          |                        | 75 / 73   | 75 / 73                             | 135 / 135                 |
| Exterior dimensions                 | Indoor   | HeightxWidthxDepth     | 339 x 1,197 x 262                                       |                                     |                           |
|                                     | Outdoor  | HeightxWidthxDepth     | 845 x 970 x 370   |                                     |                           |
| Net weight                          | Indoor   |                        | 16.5  |                                     |                           |
|                                     | Outdoor  |                        | 80  | 82                                  | 115                       |
| Ref.piping size                     |          |                        | 9.52(3/8") / 15.88(5/8")                                |                                     |                           |
| Refrigerant line (one way) length   |          |                        | Max.50  |                                     |                           |
| Vertical height differences         |          |                        | Max.50 / Max.15   |                                     |                           |
| Outdoor operating temperature range | Cooling  | °CDB                   | -15~50 <sup>2</sup>                                     |                                     |                           |
|                                     | Heating  | °CWB                   | -20~20  |                                     |                           |
| Air filter, Q'ty                    |          |                        | Polypropylene net x2 (Washable)                         |                                     |                           |
| Remote control (option)             |          |                        | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                                     |                           |

### NOTES:

The data are measured under the following conditions (R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

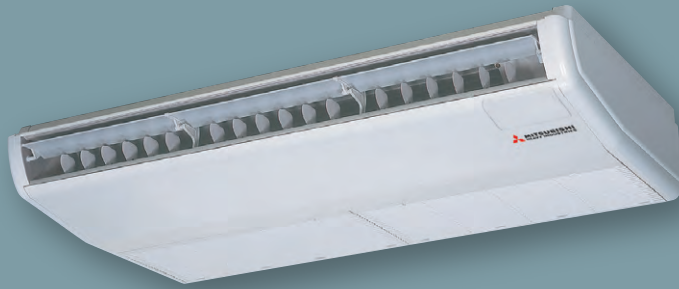
\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

| R32                                 |            |                         | Standard Inverter                                       |                           |                           |
|-------------------------------------|------------|-------------------------|---|---------------------------|---------------------------|
| Set model name                      |            |                         | SRK71VNPWZR   | SRK100VNPWZRF             | SRK100VNPWZR              |
| Indoor unit                         |            |                         | SRK71ZR-W   | SRK100ZR-WF               | SRK100ZR-W                |
| Outdoor unit                        |            |                         | FDC71VNP-W  | FDC100VNP-W               | FDC100VNP-W               |
| Power source                        |            |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                     |                           |                           |
| Nominal cooling capacity (Min~Max)  |            | kW                      | 7.1 ( 1.5 ~ 7.3 )                                       | 9.6 ( 2.1 ~ 9.6 )         | 9.6 ( 2.1 ~ 9.6 )         |
| Nominal heating capacity (Min~Max)  |            | kW                      | 7.1 ( 1.1 ~ 7.3 )                                       | 10.0 ( 1.7 ~ 10.4 )       | 10.0 ( 1.7 ~ 10.4 )       |
| Power consumption                   |            | Cooling/Heating<br>kW   | 2.36 / 1.88   | 3.10 / 2.80               | 3.10 / 2.80               |
| EER/COP                             |            | Cooling/Heating         | 3.01 / 3.78   | 3.10 / 3.57               | 3.10 / 3.57               |
| Inrush current                      |            | A                       | 5   | 5                         | 5                         |
| Max. current                        |            |                         | 15.8  | 19                        | 19                        |
| Sound power level*1                 | Indoor*3   | Cooling/Heating         | 57 / 60   | 63 / 63                   | 63 / 63                   |
|                                     | Outdoor    | Cooling/Heating         | 67 / 67   | 68 / 67                   | 68 / 67                   |
| Sound pressure level*1              | Indoor*3   | Cooling (Hi/Me/Lo/Ulo)  | 44 / 41 / 37 / 25                                       | 48 / 45 / 40 / 27         | 48 / 45 / 40 / 27         |
|                                     |            | Heating (Hi/Me/Lo/Ulo)  | 46 / 39 / 35 / 28                                       | 48 / 43 / 38 / 30         | 48 / 43 / 38 / 30         |
|                                     | Outdoor    | Cooling/Heating         | 54 / 54   | 56 / 54                   | 56 / 54                   |
|                                     |            | Cooling (Hi/Me/Lo/Ulo)  | 20.5 / 18.6 / 16.2 / 10.4                               | 24.5 / 21.3 / 17.6 / 10.4 | 24.5 / 21.3 / 17.6 / 10.4 |
| Air flow                            | Indoor*3   | Heating (Hi/Me/Lo/Ulo)  | 25.0 / 19.8 / 17.3 / 13.3                               | 27.5 / 23.2 / 19.1 / 13.6 | 27.5 / 23.2 / 19.1 / 13.6 |
|                                     | Outdoor    | Cooling/Heating         | 42 / 42   | 63 / 55                   | 63 / 55                   |
| Exterior dimensions                 | Indoor     | HeightxWidthxDepth      | mm  | 339 x 1,197 x 262         |                           |
|                                     | Outdoor    |                         |   | 640 x 800(+71) x 290      | 750 x 880(+88) x 340      |
| Net weight                          | Indoor     |                         | kg  | 15.5                      | 16.5                      |
|                                     | Outdoor    |                         |   | 45                        | 57                        |
| Ref.piping size                     | Liquid/Gas | ømm                     | 6.35(1/4") / 12.7(1/2")                                 | 6.35(1/4") / 15.88(5/8")  | 6.35(1/4") / 15.88(5/28") |
| Refrigerant line (one way) length   |            | m                       | Max.30  |                           |                           |
| Vertical height differences         |            | Outdoor is higher/lower | m   | Max.20 / Max.20           |                           |
| Outdoor operating temperature range | Cooling    | °CDB                    | -15~46*2  |                           |                           |
|                                     | Heating    | °CWB                    | -15~20  |                           |                           |
| Air filter, Q'ty                    |            |                         | Polypropylene net x2 (Washable)                         |                           |                           |
| Remote control (option)             |            |                         | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                           |                           |

| R410A                               |                 |                         | Standard Inverter                   |   |                           |  |
|-------------------------------------|-----------------|-------------------------|-------------------------------------|---|---------------------------|--|
| Set model name                      |                 |                         | SRK100VNPW1ZR                       |   |                           |  |
| Indoor unit                         |                 |                         | SRK100ZR-W                          |   |                           |  |
| Outdoor unit                        |                 |                         | FDC100VNP                           |   |                           |  |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |   |                           |  |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 10.0 ( 2.4 ~ 10.5 )                 |   |                           |  |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 11.2 ( 3.2 ~ 11.5 )                 |   |                           |  |
| Power consumption                   | Cooling/Heating | kW                      | 3.09 / 3.28                         |   |                           |  |
| EER/COP                             | Cooling/Heating |                         | 3.24 / 3.41                         |   |                           |  |
| Inrush current                      |                 | A                       | 14.4                                |   |                           |  |
| Max. current                        |                 |                         | 21                                  |   |                           |  |
| Sound power level*1                 | Indoor*3        |                         | Cooling/Heating                     | 63 / 63   |                           |  |
|                                     | Outdoor         | Cooling/Heating         | 70 / 74                             |   |                           |  |
| Sound pressure level*1              | Indoor*3        | Cooling (Hi/Me/Lo/Ulo)  | dB(A)                               | 48 / 45 / 40 / 27                                       |                           |  |
|                                     |                 | Heating (Hi/Me/Lo/Ulo)  |                                     | 48 / 43 / 38 / 30                                       |                           |  |
|                                     | Outdoor         | Cooling/Heating         |                                     | 57 / 61   |                           |  |
| Air flow                            | Indoor*3        | Cooling (Hi/Me/Lo/Ulo)  |                                     | m³/min  | 24.5 / 21.3 / 17.6 / 10.4 |  |
|                                     |                 | Heating (Hi/Me/Lo/Ulo)  | 27.5 / 23.2 / 19.1 / 13.6           |   |                           |  |
|                                     | Outdoor         | Cooling/Heating         | 75 / 80                             |   |                           |  |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | mm                                  | 339 x 1,197 x 262                                       |                           |  |
|                                     | Outdoor         |                         |                                     | 845 x 970 x 370   |                           |  |
| Net weight                          | Indoor          |                         | kg                                  | 16.5  |                           |  |
|                                     | Outdoor         |                         |                                     | 70  |                           |  |
| Ref.piping size                     | Liquid/Gas      |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")                                |                           |  |
| Refrigerant line (one way) length   |                 |                         | m                                   | Max.30  |                           |  |
| Vertical height differences         |                 | Outdoor is higher/lower | m                                   | Max.20 / Max.20   |                           |  |
| Outdoor operating temperature range | Cooling         |                         | °CDB                                | -15~46*2  |                           |  |
|                                     | Heating         |                         | °CWB                                | -15~20  |                           |  |
| Air filter, Q'ty                    |                 |                         |                                     | Polypropylene net x2 (Washable)                         |                           |  |
| Remote control (option)             |                 |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E |                           |  |

# FDE

## Indoor Unit Ceiling Suspended



FDE 40/50/60/71/100/125/140



Energy Saving



Home Leave



Hi Power



Silent Operation



Flap Control



Favourite Setting



### Remote control (option)

#### Wired



RC-EX3A



RC-E5



RCH-E3

#### Wireless

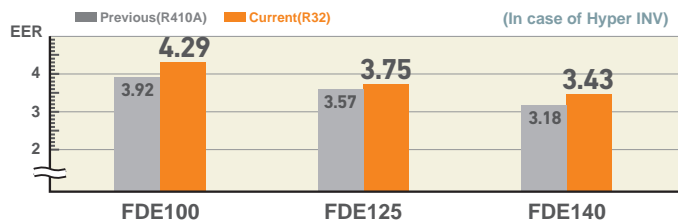


RCN-E-E3

\*Not all functions available with all remote control options.

## High Efficiency

Energy efficiency was improved by use of DC fan motor & high efficient heat exchanger.



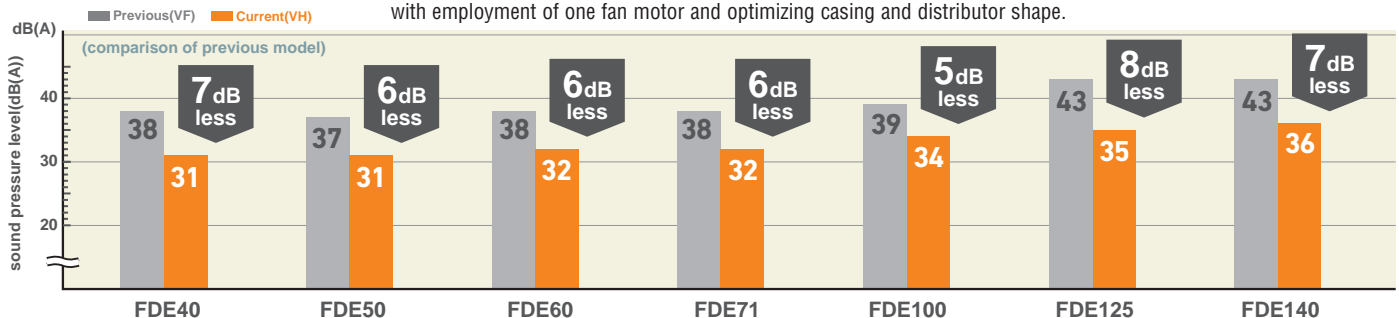
## Lighter than ever

By decreasing the numbers of fan motors from two to one, we reduced the overall weight of our FDE units.

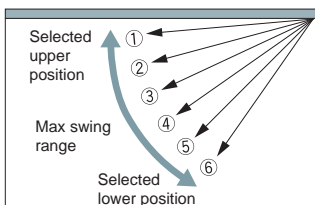
|               | Previous (VF) | Current (VH) |            |
|---------------|---------------|--------------|------------|
| 60-71VH       | 37            | 33           | 4kg less!! |
| 100-125-140VH | 49            | 43           | 6kg less!! |

## Reduced Noise

The industry's lowest sound pressure levels were achieved by decreasing air flow volume, decreasing pressure loss with employment of one fan motor and optimizing casing and distributor shape.



## Flap Control System



The flap can swing within the range of upper and lower flap position selected.

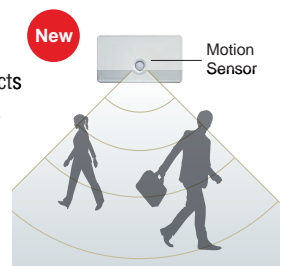
\* The wireless remote control is not applicable to the flap control system.

## Motion Sensor (Option)

Motion sensor is equipped in the panel and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



LB-E



## Improved Installation Workability

The refrigerant pipe from the unit can be arranged in three directions, rear, right and up. The drain pipe can be arranged in two directions, left and right. This will allow a free layout of piping for various installation conditions. The unit can only be serviced from the bottom.

Increased  
freedom of  
a piping layout



## OUTDOOR UNIT

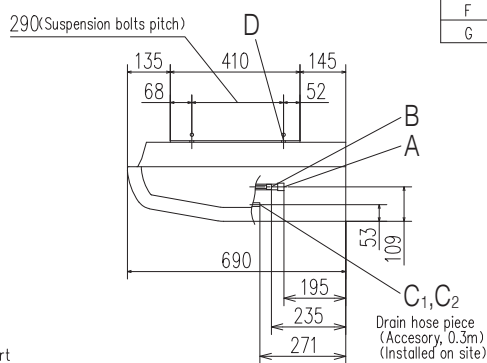
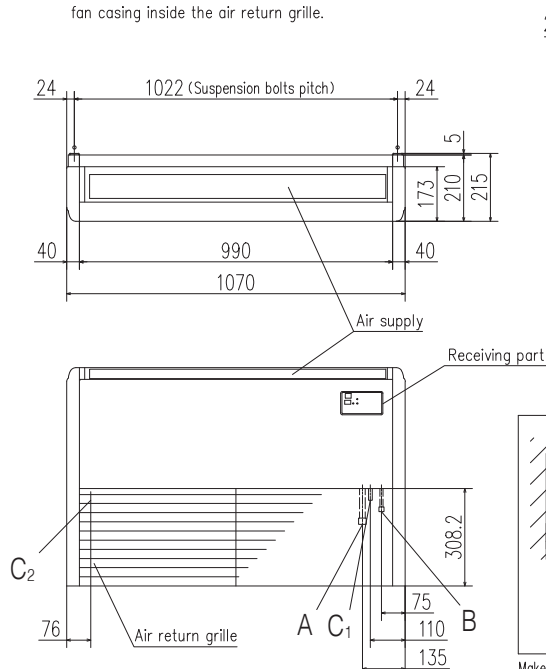
|                             |  | Hyper Inverter       |                      |                   |
|-----------------------------|--|----------------------|----------------------|-------------------|
| SRC • FDC                   |  | 40~60ZSX-W1,-W2      | 71VNX-W              | 100~140VN(S)X-W   |
|                             |  | 40~60ZSX-S           | 71VNX                | 100~140VN(S)X     |
| model                       |  |                      |                      |                   |
| Chargeless                  |  | 15m                  | 30m                  |                   |
| Height x Width x Depth (mm) |  | 640 x 800(+71) x 290 | 750 x 880(+88) x 340 | 1,300 x 970 x 370 |

|                             |  | Micro Inverter  |                   |                   | Standard Inverter    |                      |                 |
|-----------------------------|--|-----------------|-------------------|-------------------|----------------------|----------------------|-----------------|
| FDC                         |  | 100~140VN(S)A-W | —                 | 200•250•280VSA-W  | 71VNP-W              | 90•100VNP-W          | 125VNP-W        |
|                             |  | 100~140VN(S)A   | 200VSA            | 250VSA            | 71VNP                | 90VNP1               | 100VNP          |
| model                       |  |                 |                   |                   |                      |                      |                 |
| Chargeless                  |  | 30m             |                   |                   | 15m                  |                      |                 |
| Height x Width x Depth (mm) |  | 845 x 970 x 370 | 1,300 x 970 x 370 | 1,505 x 970 x 370 | 640 x 800(+71) x 290 | 750 x 880(+88) x 340 | 845 x 970 x 370 |

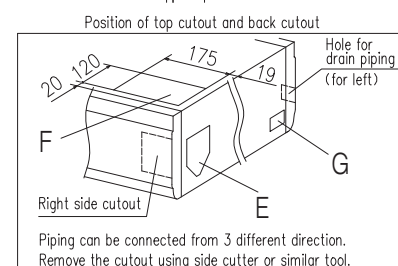
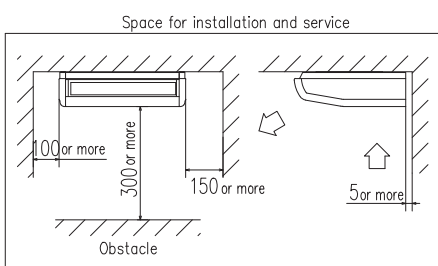
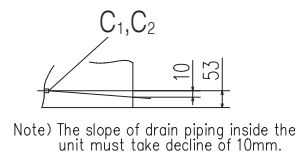
## DIMENSIONS (Unit:mm) - FDE -

### Models FDE40VH, 50VH

Note (1) The model name label is attached on the fan casing inside the air return grille.



| Symbol           | Content                                  |
|------------------|--|
| A                | Gas piping $\phi 12.7 (1/2")$ (Flare)    |
| B                | Liquid piping $\phi 6.35 (1/4")$ (Flare) |
| C <sub>1,2</sub> | Drain piping VP20 (I.D.20, O.D.26)       |
| D                | Hole for suspension bolts (M10 or M8)    |
| E                | Back cutout PE cover                     |
| F                | Top cutout Plate cover                   |
| G                | Drain piping (for left back) (Knock out) |



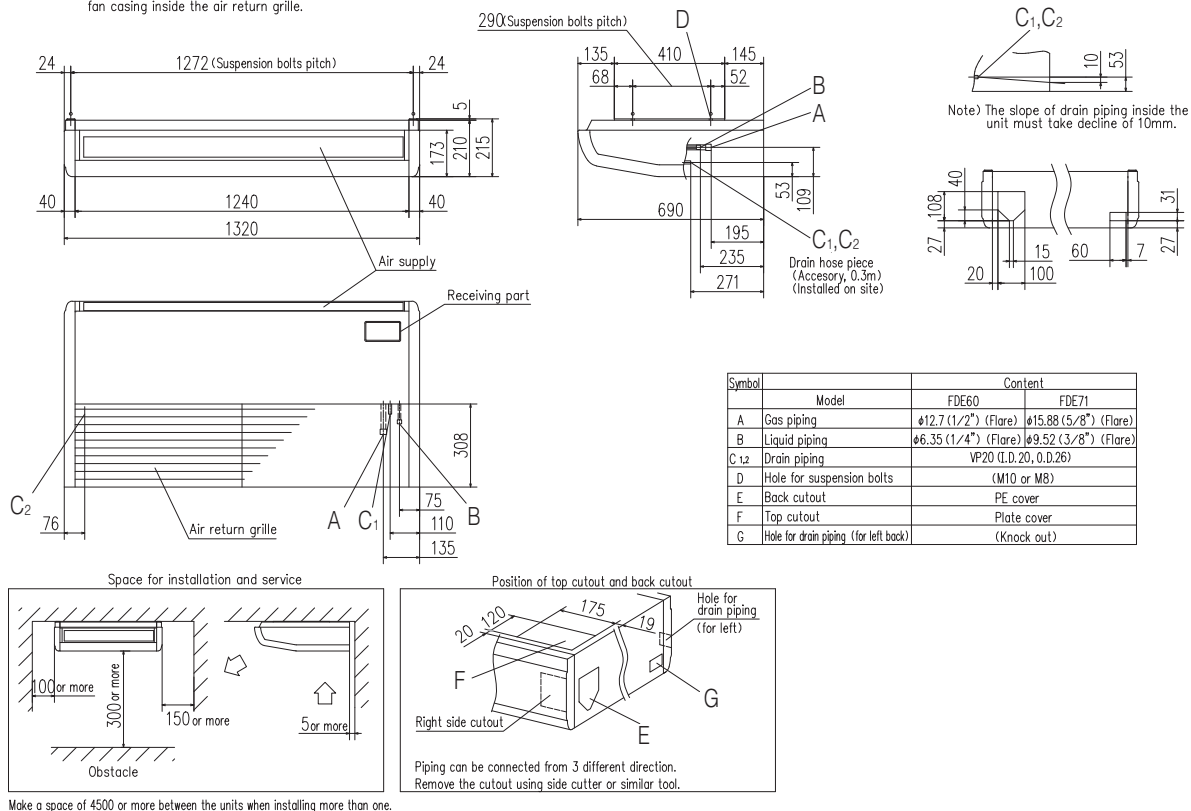
Make a space of 4000 or more between the units when installing more than one.



## DIMENSIONS (Unit:mm) - FDE -

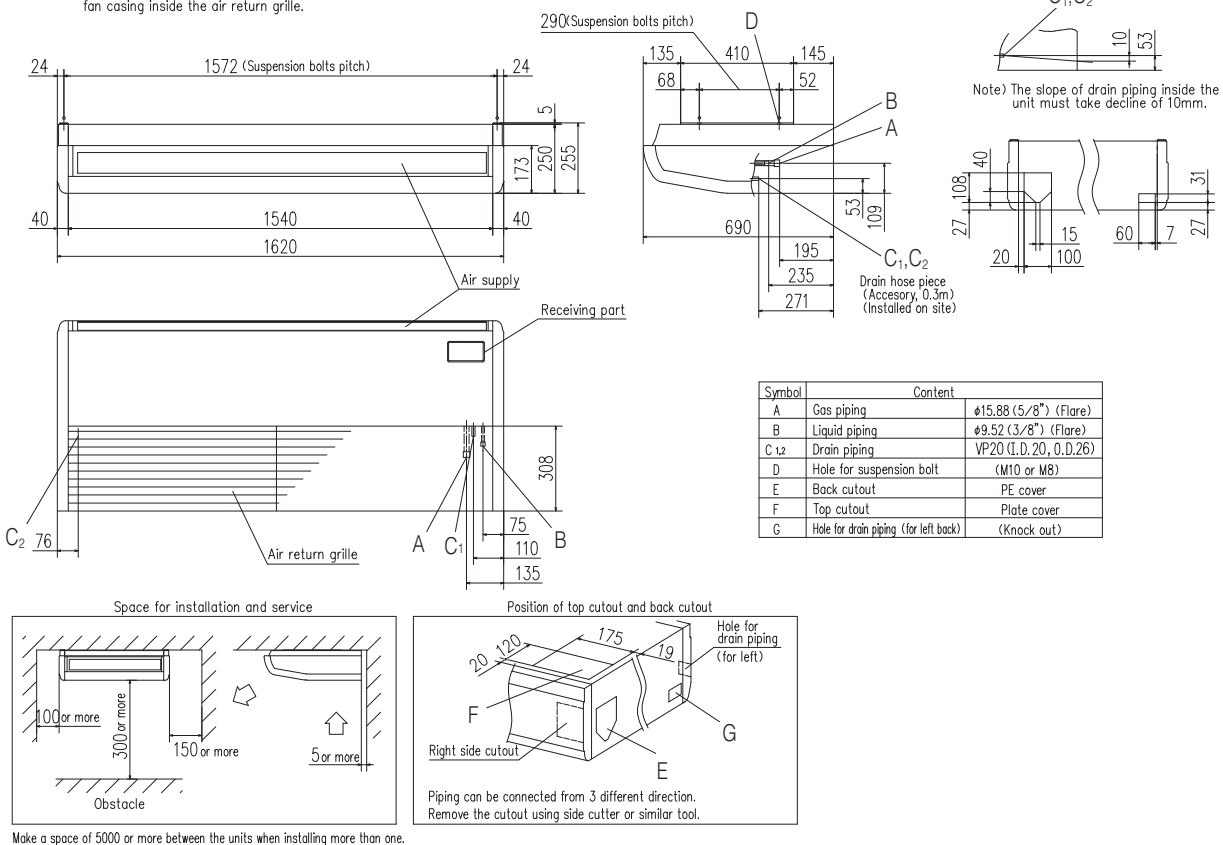
### Models FDE60VH, 71VH

Note (1) The model name label is attached on the fan casing inside the air return grille.



### Models FDE100VH, 125VH, 140VH

Note (1) The model name label is attached on the fan casing inside the air return grille.



| R32                                 |                     |                         | HyperInverter                       |  |                   |
|-------------------------------------|---------------------|-------------------------|-------------------------------------|--|-------------------|
| Set model name                      |                     |                         | FDE40ZSXW1VH                        | FDE50ZSXW2VH                                   | FDE60ZSXW1VH      |
| Indoor unit                         |                     |                         | FDE40VH                             | FDE50VH  | FDE60VH           |
| Outdoor unit                        |                     |                         | SRC40ZSX-W1                         | SRC50ZSX-W2                                    | SRC60ZSX-W1       |
| Power source                        |                     |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |  |                   |
| Nominal cooling capacity (Min~Max)  |                     | kW                      | 4.0 ( 1.1 ~ 4.7 )                   | 5.0 ( 1.1 ~ 5.6 )                              | 5.6 ( 1.1 ~ 6.3 ) |
| Nominal heating capacity (Min~Max)  |                     | kW                      | 4.5 ( 0.6 ~ 5.4 )                   | 5.4 ( 0.6 ~ 6.3 )                              | 6.7 ( 0.6 ~ 7.1 ) |
| Power consumption                   | Cooling/Heating     | kW                      | 1.02 / 1.10                         | 1.43 / 1.46                                    | 1.51 / 1.86       |
| EER/COP                             | Cooling/Heating     |                         | 3.92 / 4.09                         | 3.49 / 3.70                                    | 3.71 / 3.60       |
| Inrush current                      |                     | A                       | 5                                   | 5  | 5                 |
| Max. current                        |                     |                         | 15                                  | 15   | 15                |
| Sound power level*1                 | Indoor              | Cooling/Heating         | 60 / 60                             | 60 / 60  | 60 / 60           |
|                                     | Outdoor             | Cooling/Heating         | 63 / 62                             | 63 / 62  | 65 / 65           |
| Sound pressure level*1              | Indoor              | Cooling (P-Hi/Hi/Me/Lo) | dB(A) 46 / 38 / 36 / 31             | 46 / 38 / 36 / 31                              | 47 / 41 / 37 / 32 |
|                                     |                     | Heating (P-Hi/Hi/Me/Lo) |                                     |  |                   |
|                                     | Outdoor             | Cooling/Heating         | 52 / 50                             | 52 / 50  | 53 / 54           |
|                                     |                     | Cooling (P-Hi/Hi/Me/Lo) |                                     |  |                   |
| Air flow                            | Indoor              | Heating (P-Hi/Hi/Me/Lo) | m³/min 13 / 10 / 9 / 7              | 13 / 10 / 9 / 7                                | 20 / 16 / 13 / 10 |
|                                     | Outdoor             | Cooling/Heating         |                                     |  |                   |
|                                     | Exterior dimensions | Indoor                  | HeightxWidthxDepth                  | mm   | 210 x 1,070 x 690 |
| Outdoor                             |                     | 640 x 800(+71) x 290    |                                     |  |                   |
| Net weight                          | Indoor              |                         | kg                                  | 28   |                   |
|                                     | Outdoor             |                         |                                     | 33   |                   |
| Ref.piping size                     | Liquid/Gas          |                         |                                     | 45   |                   |
| Refrigerant line (one way) length   |                     |                         |                                     | 6.35(1/4") / 12.7(1/2")                        |                   |
| Vertical height differences         |                     |                         |                                     | Max.30   |                   |
| Outdoor operating temperature range |                     |                         |                                     | Max.20 / Max.20                                |                   |
| Cooling                             |                     |                         | °CDB                                | -15~46*2                                       |                   |
| Heating                             |                     |                         | °CWB                                | -20~20   |                   |
| Air filter, Q'ty                    |                     |                         |                                     | Pocket Plastic net x2(Washable)                |                   |
| Remote control (option)             |                     |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3 |                   |

| R32                                 |                 |                         | HyperInverter                                     |                      |                     |                     |
|-------------------------------------|-----------------|-------------------------|---|----------------------|---------------------|---------------------|
| Set model name                      |                 |                         | FDE71VNXWVH                                       | FDE100VNXWVH         | FDE125VNXWVH        | FDE140VNXWVH        |
| Indoor unit                         |                 |                         | FDE71VH   | FDE100VH             | FDE125VH            | FDE140VH            |
| Outdoor unit                        |                 |                         | FDC71VNX-W  | FDC100VNX-W          | FDC125VNX-W         | FDC140VNX-W         |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                      |                     |                     |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 7.1 ( 3.2 ~ 8.0 )                                 | 10.0 ( 3.5 ~ 11.2 )  | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 8.0 ( 3.6 ~ 9.0 )                                 | 11.2 ( 2.7 ~ 12.5 )  | 14.0 ( 2.7 ~ 17.0 ) | 16.0 ( 2.7 ~ 18.0 ) |
| Power consumption                   | Cooling/Heating | kW                      | 1.87 / 1.87                                       | 2.33 / 2.52          | 3.34 / 3.74         | 4.08 / 4.41         |
| EER/COP                             | Cooling/Heating |                         | 3.80 / 4.28                                       | 4.29 / 4.45          | 3.75 / 3.74         | 3.43 / 3.63         |
| Inrush current                      |                 | A                       | 5   | 5                    | 5                   | 5                   |
| Max. current                        |                 |                         | 19.1  | 25                   | 27                  | 27                  |
| Sound power level*1                 | Indoor          | Cooling/Heating         | 60 / 60   | 64 / 64              | 64 / 64             | 65 / 65             |
|                                     | Outdoor         | Cooling/Heating         | 66 / 66   | 67 / 67              | 68 / 70             | 69 / 71             |
| Sound pressure level*1              | Indoor          | Cooling (P-Hi/Hi/Me/Lo) | 47 / 41 / 37 / 32                                 | 48 / 43 / 38 / 34    | 48 / 45 / 40 / 35   | 49 / 45 / 40 / 36   |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 47 / 41 / 37 / 32                                 | 48 / 43 / 38 / 34    | 48 / 45 / 40 / 35   | 49 / 45 / 40 / 36   |
|                                     | Outdoor         | Cooling/Heating         | 51 / 51   | 53 / 51              | 53 / 54             | 54 / 54             |
|                                     |                 | Cooling (P-Hi/Hi/Me/Lo) | 20 / 16 / 13 / 10                                 | 32 / 26 / 21 / 16.5  | 32 / 29 / 23 / 17   | 34 / 29 / 23 / 18   |
| Air flow                            | Indoor          | Heating (P-Hi/Hi/Me/Lo) | 20 / 16 / 13 / 10                                 | 32 / 26 / 21 / 16.5  | 32 / 29 / 23 / 17   | 34 / 29 / 23 / 18   |
|                                     | Outdoor         | Cooling/Heating         | 60 / 50   | 100 / 100            | 100 / 100           | 100 / 100           |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | mm  | 210 x 1,320 x 690    |                     |                     |
|                                     | Outdoor         |                         |   | 750 x 880(+88) x 340 |                     |                     |
| Net weight                          | Indoor          |                         | kg  | 43                   |                     |                     |
|                                     | Outdoor         |                         |   | 97                   |                     |                     |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                      |                     |                     |
| Refrigerant line (one way) length   |                 | m                       | Max.50  | Max.100              |                     |                     |
| Vertical height differences         |                 | Outdoor is higher/lower | m   | Max.30 / Max.15      |                     |                     |
| Outdoor operating temperature range |                 | Cooling                 | °CDB  | -15~50*2             |                     |                     |
|                                     |                 | Heating                 | °CWB  | -20~20               |                     |                     |
| Air filter, Q'ty                    |                 |                         | Pocket Plastic net x2(Washable)                   |                      |                     |                     |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                      |                     |                     |

**NOTES:**

The data are measured under the following conditions( ISO-T1, -H1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

## SPECIFICATIONS - FDE -

| R32   |         |                         | HyperInverter                       |  |                     |
|---|---------|-------------------------|-------------------------------------|--|---------------------|
| Set model name                                      |         |                         | FDE100VSXWVH                        | FDE125VSXWVH                                   | FDE140VSXWVH        |
| Indoor unit   |         |                         | FDE100VH                            | FDE125VH                                       | FDE140VH            |
| Outdoor unit  |         |                         | FDC100VSX-W                         | FDC125VSX-W                                    | FDC140VSX-W         |
| Power source  |         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz |  |                     |
| Nominal cooling capacity (Min~Max)                  |         |                         | 10.0 ( 3.5 ~ 11.2 )                 | 12.5 ( 3.5 ~ 14.0 )                            | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)                  |         |                         | 11.2 ( 2.7 ~ 16.0 )                 | 14.0 ( 2.7 ~ 18.0 )                            | 16.0 ( 2.7 ~ 20.0 ) |
| Power consumption                                   |         |                         | Cooling/Heating kW                  | 2.33 / 2.52                                    | 3.34 / 3.74         |
| EER/COP   |         |                         | Cooling/Heating                     | 4.29 / 4.45                                    | 3.75 / 3.74         |
| Inrush current                                      |         |                         | A                                   | 5  | 5                   |
| Max. current  |         |                         | A                                   | 14   | 14                  |
| Sound power level*1                                 | Indoor  | Cooling/Heating         | dB(A)                               | 64 / 64  | 65 / 65             |
|   | Outdoor | Cooling/Heating         |                                     | 67 / 67  | 69 / 71             |
| Sound pressure level*1                              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | dB(A)                               | 48 / 43 / 38 / 34                              | 49 / 45 / 40 / 36   |
|   | Indoor  | Heating (P-Hi/Hi/Me/Lo) |                                     | 48 / 43 / 38 / 34                              | 49 / 45 / 40 / 36   |
|   | Outdoor | Cooling/Heating         | m³/min                              | 53 / 51  | 54 / 54             |
|   | Outdoor | Cooling (P-Hi/Hi/Me/Lo) |                                     | 32 / 26 / 21 / 16.5                            | 34 / 29 / 23 / 18   |
| Air flow  | Indoor  | Heating (P-Hi/Hi/Me/Lo) | m³/min                              | 32 / 26 / 21 / 16.5                            | 34 / 29 / 23 / 18   |
|   | Outdoor | Cooling/Heating         |                                     | 100 / 100                                      | 100 / 100           |
| Exterior dimensions                                 | Indoor  | HeightxWidthxDepth      | mm                                  | 250 x 1,620 x 690                              |                     |
|   | Outdoor | HeightxWidthxDepth      |                                     | 1,300 x 970 x 370                              |                     |
| Net weight  | Indoor  |                         | kg                                  | 43   |                     |
|   | Outdoor |                         |                                     | 99   |                     |
| Ref.piping size Liquid/Gas                          |         |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")                       |                     |
| Refrigerant line (one way) length                   |         |                         | m                                   | Max.100  |                     |
| Vertical height differences Outdoor is higher/lower |         |                         | m                                   | Max.50 / Max.15                                |                     |
| Outdoor operating temperature range                 | Cooling | °CDB                    |                                     | -15~50*2                                       |                     |
|   | Heating | °CWB                    |                                     | -20~20   |                     |
| Air filter, Q'ty                                    |         |                         |                                     | Pocket Plastic net x2(Washable)                |                     |
| Remote control (option)                             |         |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3 |                     |

The values are for simultaneous Multi operation.

| R32   |          |                         | HyperInverter                       |  |                     |                     |                     |
|---|----------|-------------------------|-------------------------------------|--|---------------------|---------------------|---------------------|
| Set model name                                      |          |                         | FDE71VNXWVH                         | FDE100VNXWVH                                   | FDE125VNXWVH        | FDE140VNXWVH        | FDE140VNXWTVH       |
| Indoor unit   |          |                         | FDE40VH x 2                         | FDE50VH x 2                                    | FDE60VH x 2         | FDE71VH x 2         | FDE50VH x 3         |
| Outdoor unit  |          |                         | FDC71VNX-W                          | FDC100VNX-W                                    | FDC125VNX-W         | FDC140VNX-W         | FDC140VNX-W         |
| Power source  |          |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |  |                     |                     |                     |
| Nominal cooling capacity (Min~Max)                  |          |                         | 7.1 ( 3.2 ~ 8.0 )                   | 10.0 ( 3.5 ~ 11.2 )                            | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)                  |          |                         | 8.0 ( 3.6 ~ 9.0 )                   | 11.2 ( 2.7 ~ 12.5 )                            | 14.0 ( 2.7 ~ 17.0 ) | 16.0 ( 2.7 ~ 18.0 ) | 16.0 ( 2.7 ~ 18.0 ) |
| Power consumption                                   |          |                         | Cooling/Heating kW                  | 1.76 / 2.10                                    | 2.48 / 2.88         | 3.49 / 3.27         | 4.16 / 3.97         |
| EER/COP   |          |                         | Cooling/Heating                     | 4.03 / 3.81                                    | 4.04 / 3.89         | 3.58 / 4.29         | 3.36 / 4.03         |
| Inrush current                                      |          |                         | A                                   | 5  | 5                   | 5                   | 5                   |
| Max. current  |          |                         | A                                   | 19.1   | 25                  | 27                  | 27                  |
| Sound power level*1                                 | Indoor*3 | Cooling/Heating         | dB(A)                               | 60 / 60  | 60 / 60             | 60 / 60             | 60 / 60             |
|   | Outdoor  | Cooling/Heating         |                                     | 66 / 66  | 67 / 67             | 68 / 70             | 69 / 71             |
| Sound pressure level*1                              | Indoor*3 | Cooling (P-Hi/Hi/Me/Lo) | dB(A)                               | 46 / 38 / 36 / 31                              | 46 / 38 / 36 / 31   | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   |
|   | Indoor*3 | Heating (P-Hi/Hi/Me/Lo) |                                     | 46 / 38 / 36 / 31                              | 46 / 38 / 36 / 31   | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   |
|   | Outdoor  | Cooling/Heating         | m³/min                              | 51 / 51  | 53 / 51             | 53 / 54             | 54 / 54             |
|   | Outdoor  | Cooling (P-Hi/Hi/Me/Lo) |                                     | 13 / 10 / 9 / 7                                | 13 / 10 / 9 / 7     | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   |
| Air flow  | Indoor*3 | Heating (P-Hi/Hi/Me/Lo) | m³/min                              | 13 / 10 / 9 / 7                                | 13 / 10 / 9 / 7     | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   |
|   | Outdoor  | Cooling/Heating         |                                     | 60 / 50  | 100 / 100           | 100 / 100           | 100 / 100           |
| Exterior dimensions                                 | Indoor   | HeightxWidthxDepth      | mm                                  | 210 x 1,070 x 690                              | 210 x 1,320 x 690   | 210 x 1,320 x 690   | 210 x 1,070 x 690   |
|   | Outdoor  | HeightxWidthxDepth      |                                     | 750 x 880(+88) x 340                           | 1,300 x 970 x 370   | 1,300 x 970 x 370   | 1,300 x 970 x 370   |
| Net weight  | Indoor   |                         | kg                                  | 28   | 33                  | 33                  | 28                  |
|   | Outdoor  |                         |                                     | 60   | 97                  | 97                  | 97                  |
| Ref.piping size Liquid/Gas                          |          |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")                       |                     |                     |                     |
| Refrigerant line (one way) length                   |          |                         | m                                   | Max. 50  | Max. 100            | Max. 85             | Max. 85             |
| Vertical height differences Outdoor is higher/lower |          |                         | m                                   | Max.30 / Max.15                                | Max.50 / Max.15     | Max.50 / Max.15     | Max.50 / Max.15     |
| Outdoor operating temperature range                 | Cooling  | °CDB                    |                                     | -15~50*2                                       |                     |                     |                     |
|   | Heating  | °CWB                    |                                     | -20~20   |                     |                     |                     |
| Air filter, Q'ty                                    |          |                         |                                     | Pocket plastic net x 2(Washable)               |                     |                     |                     |
| Remote control (option)                             |          |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3 |                     |                     |                     |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

FDE | Indoor Unit

| R32                                 |                         |                         | HyperInverter                                  |                     |                     |                     |                   |
|-------------------------------------|-------------------------|-------------------------|--|---------------------|---------------------|---------------------|-------------------|
| Set model name                      |                         |                         | FDE100VSXWPH                                   | FDE125VSXWPH        | FDE140VSXWPH        | FDE140VSXWTVH       |                   |
|                                     |                         |                         | Twin   |                     |                     | Triple              |                   |
| Indoor unit                         |                         |                         | FDE50VH x 2                                    | FDE60VH x 2         | FDE71VH x 2         | FDE50VH x 3         |                   |
| Outdoor unit                        |                         |                         | FDC100VSX-W                                    | FDC125VSX-W         | FDC140VSX-W         | FDC140VSX-W         |                   |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz            |                     |                     |                     |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 3.5 ~ 11.2 )                            | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) | 14.0 ( 3.5 ~ 16.0 ) |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 2.7 ~ 16.0 )                            | 14.0 ( 2.7 ~ 18.0 ) | 16.0 ( 2.7 ~ 20.0 ) | 16.0 ( 2.7 ~ 20.0 ) |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 2.48 / 2.88                                    | 3.49 / 3.27         | 4.16 / 3.97         | 3.72 / 4.11         |                   |
| EER/COP                             | Cooling/Heating         |                         | 4.04 / 3.89                                    | 3.58 / 4.29         | 3.36 / 4.03         | 3.76 / 3.89         |                   |
| Inrush current                      |                         | A                       | 5  | 5                   | 5                   | 5                   |                   |
| Max. current                        |                         |                         | 14   | 14                  | 14                  | 14                  |                   |
| Sound power level*1                 | Indoor*3                | Cooling/Heating         | dB(A)  | 60 / 60             | 60 / 60             | 60 / 60             |                   |
|                                     | Outdoor                 |                         |  | Cooling/Heating     | 67 / 67             | 68 / 70             | 69 / 71           |
| Sound pressure level*1              | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo) |  | 46 / 38 / 36 / 31   | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31 |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |  | 46 / 38 / 36 / 31   | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31 |
|                                     | Outdoor                 | Cooling/Heating         |  | 53 / 51             | 53 / 54             | 54 / 54             | 54 / 54           |
| Air flow                            | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo) |  | m³/min              | 13 / 10 / 9 / 7     | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10 |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 7                                |                     | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7   |
|                                     | Outdoor                 | Cooling/Heating         | 100 / 100                                      |                     | 100 / 100           | 100 / 100           | 100 / 100         |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm   | 210 x 1,070 x 690   | 210 x 1,320 x 690   |                     | 210 x 1,070 x 690 |
|                                     | Outdoor                 |                         |  | 1,300 x 970 x 370   |                     |                     |                   |
| Net weight                          | Indoor                  |                         | kg   | 28                  | 33                  |                     | 28                |
|                                     | Outdoor                 |                         |  | 99                  |                     |                     |                   |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                       |                     |                     |                     |                   |
| Refrigerant line (one way) length   |                         | m                       | Max.100  |                     | Max.85              |                     |                   |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.50 / Max.15                                |                     |                     |                     |                   |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50*2                                       |                     |                     |                     |                   |
|                                     | Heating                 | °CWB                    | -20~20   |                     |                     |                     |                   |
| Air filter, Q'ty                    |                         |                         | Pocket plastic net x 2(Washable)               |                     |                     |                     |                   |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3 |                     |                     |                     |                   |

| R410A                               |                         |                         | HyperInverter                                     |                         |                   |                   |
|-------------------------------------|-------------------------|-------------------------|---|-------------------------|-------------------|-------------------|
| Set model name                      |                         |                         | FDE40ZSXVH  | FDE50ZSXVH              | FDE60ZSXVH        |                   |
| Indoor unit                         |                         |                         | FDE40VH   | FDE50VH                 | FDE60VH           |                   |
| Outdoor unit                        |                         |                         | SRC40ZSX-S  | SRC50ZSX-S              | SRC60ZSX-S        |                   |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                         |                   |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 4.0 ( 1.1 ~ 4.7 )                                 | 5.0 ( 1.1 ~ 5.6 )       | 5.6 ( 1.1 ~ 6.3 ) |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 4.5 ( 0.6 ~ 5.4 )                                 | 5.4 ( 0.6 ~ 6.3 )       | 6.7 ( 0.6 ~ 7.1 ) |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 1.02 / 1.10                                       | 1.52 / 1.46             | 1.75 / 1.86       |                   |
| EER/COP                             | Cooling/Heating         |                         | 3.92 / 4.09                                       | 3.29 / 3.70             | 3.20 / 3.60       |                   |
| Inrush current                      |                         | A                       | 5   | 5                       | 5                 |                   |
| Max. current                        |                         |                         | 12  | 15                      | 15                |                   |
| Sound power level*1                 | Indoor                  | dB(A)                   | 60 / 60   | 60 / 60                 | 60 / 60           |                   |
|                                     | Outdoor                 |                         | Cooling/Heating                                   | 63 / 63                 | 63 / 63           | 65 / 64           |
| Sound pressure level*1              | Indoor                  |                         | Cooling (P-Hi/Hi/Me/Lo)                           | 46 / 38 / 36 / 31       | 46 / 38 / 36 / 31 | 47 / 41 / 37 / 32 |
|                                     |                         |                         | Heating (P-Hi/Hi/Me/Lo)                           | 46 / 38 / 36 / 31       | 46 / 38 / 36 / 31 | 47 / 41 / 37 / 32 |
|                                     | Outdoor                 |                         | Cooling/Heating                                   | 50 / 49                 | 50 / 49           | 52 / 52           |
| Air flow                            | Indoor                  |                         | Cooling (P-Hi/Hi/Me/Lo)                           | 13 / 10 / 9 / 7         | 13 / 10 / 9 / 7   | 20 / 16 / 13 / 10 |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 7                                   | 13 / 10 / 9 / 7         | 20 / 16 / 13 / 10 |                   |
|                                     | Outdoor                 | Cooling/Heating         | 36 / 33   | 40 / 33                 | 41.5 / 39         |                   |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm  | 210 x 1,070 x 690       |                   | 210 x 1,320 x 690 |
|                                     | Outdoor                 |                         |   | 640 x 800(+71) x 290    |                   |                   |
| Net weight                          | Indoor                  |                         | kg  | 28                      |                   | 33                |
|                                     | Outdoor                 |                         |   | 45                      |                   |                   |
| Ref.piping size                     | Liquid/Gas              |                         | ømm   | 6.35(1/4") / 12.7(1/2") |                   |                   |
| Refrigerant line (one way) length   |                         |                         | m   | Max.30                  |                   |                   |
| Vertical height differences         | Outdoor is higher/lower |                         | m   | Max.20 / Max.20         |                   |                   |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~46*2  |                         |                   |                   |
|                                     | Heating                 | °CWB                    | -20~24  |                         |                   |                   |
| Air filter, Q'ty                    |                         |                         | Pocket Plastic net x2(Washable)                   |                         |                   |                   |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                         |                   |                   |



## SPECIFICATIONS - FDE -

| R410A                               |                         |  | HyperInverter                                     |  |  |  |  |  |
|-------------------------------------|-------------------------|--|---|--|--|--|--|--|
| Set model name                      |                         |  | FDE71VNXVH  | FDE100VNXVH                            | FDE125VNXVH                            | FDE140VNXVH                                |  |  |
| Indoor unit                         |                         |  | FDE71VH   | FDE100VH                               | FDE125VH                               | FDE140VH                                   |  |  |
| Outdoor unit                        |                         |  | FDC71VNX  | FDC100VNX                              | FDC125VNX                              | FDC140VNX                                  |  |  |
| Power source                        |                         |  | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |  |  |  |  |  |
| Nominal cooling capacity (Min~Max)  |                         | kW   | 7.1 ( 3.2 ~ 8.0 )                                 | 10.0 ( 4.0 ~ 11.2 )                    | 12.5 ( 5.0 ~ 14.0 )                    | 14.0 ( 5.0 ~ 16.0 )                        |  |  |
| Nominal heating capacity (Min~Max)  |                         | kW   | 8.0 ( 3.6 ~ 9.0 )                                 | 11.2 ( 4.0 ~ 12.5 )                    | 14.0 ( 4.0 ~ 17.0 )                    | 16.0 ( 4.0 ~ 18.0 )                        |  |  |
| Power consumption                   | Cooling/Heating         | kW   | 2.11 / 2.11                                       | 2.55 / 2.68                            | 3.50 / 3.77                            | 4.40 / 4.69                                |  |  |
| EER/COP                             | Cooling/Heating         |  | 3.36 / 3.79                                       | 3.92 / 4.18                            | 3.57 / 3.71                            | 3.18 / 3.41                                |  |  |
| Inrush current                      |                         | A  | 5   | 5                                      | 5                                      | 5  |  |  |
| Max. current                        |                         |  | 17  | 24                                     | 26                                     | 26   |  |  |
| Sound power level*1                 | Indoor                  | Cooling/Heating                                    | dB(A)   | 60 / 60                                | 64 / 64                                | 64 / 64                                    |  |  |
|                                     | Outdoor                 | Cooling/Heating                                    |   | 66 / 66                                | 70 / 70                                | 70 / 70                                    |  |  |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) |   | 47 / 41 / 37 / 32<br>47 / 41 / 37 / 32 | 48 / 43 / 38 / 34<br>48 / 43 / 38 / 34 | 48 / 45 / 40 / 35<br>48 / 45 / 40 / 35     | 49 / 45 / 40 / 36<br>49 / 45 / 40 / 36 |  |
|                                     | Outdoor                 | Cooling/Heating                                    |   | 51 / 48                                | 48 / 50                                | 48 / 50                                    | 49 / 52                                |  |
| Air flow                            | Indoor                  | Cooling (P-Hi/Hi/Me/Lo)<br>Heating (P-Hi/Hi/Me/Lo) |   | m³/min                                 | 20 / 16 / 13 / 10<br>20 / 16 / 13 / 10 | 32 / 26 / 21 / 16.5<br>32 / 26 / 21 / 16.5 | 32 / 29 / 23 / 17<br>32 / 29 / 23 / 17 | 34 / 29 / 23 / 18<br>34 / 29 / 23 / 18 |
|                                     | Outdoor                 | Cooling/Heating                                    |   |  | 60 / 50                                | 100 / 100                                  | 100 / 100                              | 100 / 100                              |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth                                 | mm  | 210 x 1,320 x 690                      |  |  |  |  |
|                                     | Outdoor                 |  |   | 750 x 880(+88) x 340                   |  |  |  |  |
| Net weight                          | Indoor                  | kg   | 33  |  |  |  |  |  |
|                                     | Outdoor                 |  | 60  |  |  |  |  |  |
| Ref.piping size                     | Liquid/Gas              | ømm  | 9.52(3/8") / 15.88(5/8")                          |  |  |  |  |  |
| Refrigerant line (one way) length   |                         | m  | Max.50  | Max.100                                |  |  |  |  |
| Vertical height differences         | Outdoor is higher/lower | m  | Max.30 / Max.15                                   |  |  |  |  |  |
| Outdoor operating temperature range | Cooling                 | °CDB   | -15~43*2  |  |  |  |  |  |
|                                     | Heating                 | °CWB   | -20~20  |  |  |  |  |  |
| Air filter, Q'ty                    |                         |  | Pocket Plastic net x2(Washable)                   |  |  |  |  |  |
| Remote control (option)             |                         |  | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |  |  |  |  |  |

| R410A                               |                         |                         | Hyper Inverter                                    |                     |                     |  |
|-------------------------------------|-------------------------|-------------------------|---|---------------------|---------------------|--|
| Set model name                      |                         |                         | FDE100VSXVH                                       | FDE125VSXVH         | FDE140VSXVH         |  |
| Indoor unit                         |                         |                         | FDE100VH  | FDE125VH            | FDE140VH            |  |
| Outdoor unit                        |                         |                         | FDC100VSX   | FDC125VSX           | FDC140VSX           |  |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                     |                     |  |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 ) |  |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 16.0 )                               | 14.0 ( 4.0 ~ 18.0 ) | 16.0 ( 4.0 ~ 20.0 ) |  |
| Power consumption                   | Cooling/Heating         | kW                      | 2.55 / 2.68                                       | 3.50 / 3.77         | 4.40 / 4.69         |  |
| EER/COP                             | Cooling/Heating         |                         | 3.92 / 4.18                                       | 3.57 / 3.71         | 3.18 / 3.41         |  |
| Inrush current                      |                         | A                       | 5   | 5                   | 5                   |  |
| Max. current                        |                         |                         | 15  | 15                  | 15                  |  |
| Sound power level*1                 | Indoor                  | Cooling/Heating         | dB(A)   | 64 / 64             | 64 / 64             |  |
|                                     | Outdoor                 | Cooling/Heating         |   | 70 / 70             | 70 / 70             |  |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) |   | 48 / 43 / 38 / 34   | 48 / 45 / 40 / 35   |  |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |   | 48 / 43 / 38 / 34   | 48 / 45 / 40 / 35   |  |
|                                     | Outdoor                 | Cooling/Heating         |   | 48 / 50             | 48 / 50             |  |
|                                     |                         |                         |   |                     |                     |  |
| Air flow                            | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | m³/min  | 32 / 26 / 21 / 16.5 | 32 / 29 / 23 / 17   |  |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |   | 32 / 26 / 21 / 16.5 | 32 / 29 / 23 / 17   |  |
|                                     | Outdoor                 | Cooling/Heating         |   | 100 / 100           | 100 / 100           |  |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm  | 250 x 1,620 x 690   |                     |  |
|                                     | Outdoor                 |                         |   | 1,300 x 970 x 370   |                     |  |
| Net weight                          | Indoor                  |                         | kg  | 43                  |                     |  |
|                                     | Outdoor                 |                         |   | 105                 |                     |  |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                     |                     |  |
| Refrigerant line (one way) length   |                         |                         | m   | Max.100             |                     |  |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.30 / Max.15                                   |                     |                     |  |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~43*2  |                     |                     |  |
|                                     | Heating                 | °CWB                    | -20~20  |                     |                     |  |
| Air filter, Q'ty                    |                         |                         | Pocket Plastic net x2(Washable)                   |                     |                     |  |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                     |                     |  |

### NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

FDE | Indoor Unit

| R410A                               |                         |                         | HyperInverter                                     |                   |                     |                     |                     |                   |
|-------------------------------------|-------------------------|-------------------------|---|-------------------|---------------------|---------------------|---------------------|-------------------|
| Set model name                      |                         |                         | FDE71VNXPVH                                       | FDE100VNXPVH      | FDE125VNXPVH        | FDE140VNXPVH        | FDE140VNXTVH        |                   |
|                                     |                         |                         | Twin  |                   |                     |                     | Triple              |                   |
| Indoor unit                         |                         |                         | FDE40VH x 2                                       | FDE50VH x 2       | FDE60VH x 2         | FDE71VH x 2         | FDE50VH x 3         |                   |
| Outdoor unit                        |                         |                         | FDC71VNX  | FDC100VNX         | FDC125VNX           | FDC140VNX           | FDC140VNX           |                   |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                   |                     |                     |                     |                   |
| Nominal cooling capacity (Min~Max)  |                         |                         | kW  | 7.1 ( 3.2 ~ 8.0 ) | 10.0 ( 4.0 ~ 11.2 ) | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 ) |                   |
| Nominal heating capacity (Min~Max)  |                         |                         | kW  | 8.0 ( 3.6 ~ 9.0 ) | 11.2 ( 4.0 ~ 12.5 ) | 14.0 ( 4.0 ~ 17.0 ) | 16.0 ( 4.0 ~ 18.0 ) |                   |
| Power consumption                   |                         | Cooling/Heating         | kW  | 2.05 / 2.35       | 3.00 / 3.39         | 3.97 / 3.70         | 4.67 / 4.58         |                   |
| EER/COP                             |                         | Cooling/Heating         |   | 3.46 / 3.40       | 3.33 / 3.30         | 3.15 / 3.78         | 3.00 / 3.49         |                   |
| Inrush current                      |                         | A                       |   | 5                 | 5                   | 5                   | 5                   |                   |
| Max. current                        |                         |                         |   | 17                | 24                  | 26                  | 26                  |                   |
| Sound power level*1                 | Indoor*3                | Cooling/Heating         | dB(A)   | 60 / 60           | 60 / 60             | 60 / 60             | 60 / 60             |                   |
|                                     | Outdoor                 | Cooling/Heating         |   | 66 / 66           | 70 / 70             | 70 / 70             | 72 / 72             |                   |
| Sound pressure level*1              | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo) |   | 46 / 38 / 36 / 31 | 46 / 38 / 36 / 31   | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31 |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |   | 46 / 38 / 36 / 31 | 46 / 38 / 36 / 31   | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31 |
| Air flow                            | Indoor*3                | Cooling/Heating         | m³/min  | 51 / 48           | 48 / 50             | 48 / 50             | 49 / 52             |                   |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) |   | 13 / 10 / 9 / 7   | 13 / 10 / 9 / 7     | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7   |
|                                     | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 7         |   | 13 / 10 / 9 / 7   | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7     |                   |
| Outdoor                             | Cooling/Heating         |                         |   | 60 / 50           | 100 / 100           | 100 / 100           | 100 / 100           | 100 / 100         |
|                                     | Indoor                  | HeightxWidthxDepth      | mm  | 210 x 1,070 x 690 |                     | 210 x 1,320 x 690   |                     | 210 x 1,070 x 690 |
| Outdoor                             | 750 x 880(+88) x 340    |                         |   | 1,300 x 970 x 370 |                     |                     |                     |                   |
| Net weight                          | Indoor                  |                         | kg  | 28                |                     | 33                  |                     | 28                |
|                                     | Outdoor                 |                         |   | 60                |                     | 105                 |                     |                   |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                   |                     |                     |                     |                   |
| Refrigerant line (one way) length   |                         | m                       | Max. 50   |                   | Max. 100            |                     |                     |                   |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.30 / Max.15                                   |                   |                     |                     |                     |                   |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~43*2  |                   |                     |                     |                     |                   |
|                                     | Heating                 | °CWB                    | -20~20  |                   |                     |                     |                     |                   |
| Air filter, Q'ty                    |                         |                         | Pocket plastic net x 2(Washable)                  |                   |                     |                     |                     |                   |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                   |                     |                     |                     |                   |

The values are for simultaneous Multi operation.

| R410A                               |                         |                         | HyperInverter                                     |                     |                     |                     |                   |
|-------------------------------------|-------------------------|-------------------------|---|---------------------|---------------------|---------------------|-------------------|
| Set model name                      |                         |                         | FDE100VSXPVH                                      | FDE125VSXPVH        | FDE140VSXPVH        | FDE140VSXTVH        |                   |
|                                     |                         |                         | Twin  |                     |                     | Triple              |                   |
| Indoor unit                         |                         |                         | FDE50VH x 2                                       | FDE60VH x 2         | FDE71VH x 2         | FDE50VH x 3         |                   |
| Outdoor unit                        |                         |                         | FDC100VSX   | FDC125VSX           | FDC140VSX           | FDC140VSX           |                   |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                     |                     |                     |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 ) | 14.0 ( 5.0 ~ 16.0 ) |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 16.0 )                               | 14.0 ( 4.0 ~ 18.0 ) | 16.0 ( 4.0 ~ 20.0 ) | 16.0 ( 4.0 ~ 20.0 ) |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 3.00 / 3.39                                       | 3.97 / 3.70         | 4.67 / 4.58         | 4.66 / 4.53         |                   |
| EER/COP                             | Cooling/Heating         |                         | 3.33 / 3.30                                       | 3.15 / 3.78         | 3.00 / 3.49         | 3.00 / 3.53         |                   |
| Inrush current                      |                         | A                       | 5   | 5                   | 5                   | 5                   |                   |
| Max. current                        |                         |                         | 15  | 15                  | 15                  | 15                  |                   |
| Sound power level*1                 | Indoor*3                | Cooling/Heating         | dB(A)   | 60 / 60             | 60 / 60             | 60 / 60             |                   |
|                                     | Outdoor                 |                         |   | Cooling/Heating     | 70 / 70             | 70 / 70             | 72 / 72           |
| Sound pressure level*1              | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo) |   | 46 / 38 / 36 / 31   | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31 |
|                                     | Outdoor                 | Heating (P-Hi/Hi/Me/Lo) |   | 46 / 38 / 36 / 31   | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31 |
| Air flow                            | Indoor*3                | Cooling/Heating         | 48 / 50   | 48 / 50             | 49 / 52             | 49 / 52             |                   |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 7                                   | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7     |                   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 7                                   | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7     |                   |
| Exterior dimensions                 | Outdoor                 | Cooling/Heating         | 100 / 100   | 100 / 100           | 100 / 100           | 100 / 100           |                   |
|                                     | Indoor                  | HeightxWidthxDepth      | mm  | 210 x 1,070 x 690   |                     | 210 x 1,320 x 690   |                   |
| Net weight                          | Indoor                  | kg                      | 210 x 1,070 x 690                                 |                     | 210 x 1,320 x 690   |                     |                   |
|                                     | Outdoor                 |                         | 1,300 x 970 x 370                                 |                     |                     |                     |                   |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                          |                     |                     |                     |                   |
| Refrigerant line (one way) length   |                         | m                       | Max.100   |                     |                     |                     |                   |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.30 / Max.15                                   |                     |                     |                     |                   |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~43*2  |                     |                     |                     |                   |
|                                     | Heating                 | °CWB                    | -20~20  |                     |                     |                     |                   |
| Air filter, Q'ty                    |                         |                         | Pocket plastic net x 2(Washable)                  |                     |                     |                     |                   |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                     |                     |                     |                   |

## SPECIFICATIONS - FDE -

| R32                                 |                         |                         | Micro Inverter                                 |                     |                     |
|-------------------------------------|-------------------------|-------------------------|--|---------------------|---------------------|
| Set model name                      |                         |                         | FDE100VNAVH                                    | FDE125VNAVH         | FDE140VNAVH         |
| Indoor unit                         |                         |                         | FDE100VH                                       | FDE125VH            | FDE140VH            |
| Outdoor unit                        |                         |                         | FDC100VNA-W                                    | FDC125VNA-W         | FDC140VNA-W         |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz            |                     |                     |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                            | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 12.5 )                            | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating         | kW                      | 2.85 / 2.54                                    | 4.45 / 3.74         | 5.05 / 4.18         |
| EER/COP                             | Cooling/Heating         |                         | 3.51 / 4.41                                    | 2.81 / 3.74         | 2.69 / 3.71         |
| Inrush current                      |                         | A                       | 5  | 5                   | 5                   |
| Max. current                        |                         |                         | 24   | 24                  | 24                  |
| Sound power level*1                 | Indoor                  | Cooling/Heating         | 64 / 64  | 64 / 64             | 65 / 65             |
|                                     | Outdoor                 | Cooling/Heating         | 69 / 70  | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | 48 / 43 / 38 / 34                              | 48 / 45 / 40 / 35   | 49 / 45 / 40 / 36   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 48 / 43 / 38 / 34                              | 48 / 45 / 40 / 35   | 49 / 45 / 40 / 36   |
|                                     | Outdoor                 | Cooling/Heating         | 54 / 55  | 54 / 56             | 56 / 58             |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | 32 / 26 / 21 / 16.5                            | 32 / 29 / 23 / 17   | 34 / 29 / 23 / 18   |
| Air flow                            | Indoor                  | Heating (P-Hi/Hi/Me/Lo) | 32 / 26 / 21 / 16.5                            | 32 / 29 / 23 / 17   | 34 / 29 / 23 / 18   |
|                                     | Outdoor                 | Cooling/Heating         | 75 / 73  | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | 250 x 1,620 x 690                              |                     |                     |
|                                     | Outdoor                 |                         | 845 x 970 x 370                                |                     |                     |
| Net weight                          | Indoor                  |                         | 43   |                     |                     |
|                                     | Outdoor                 |                         | 77   |                     |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                       |                     |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.50   |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.50 / Max.15                                |                     |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50*2                                       |                     |                     |
|                                     | Heating                 | °CWB                    | -20~20   |                     |                     |
| Air filter, Q'ty                    |                         |                         | Pocket Plastic net x2(Washable)                |                     |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3 |                     |                     |

| R32                                 |                         |                         | Micro Inverter                                 |                     |                     |
|-------------------------------------|-------------------------|-------------------------|--|---------------------|---------------------|
| Set model name                      |                         |                         | FDE100VSAVH                                    | FDE125VSAVH         | FDE140VSAVH         |
| Indoor unit                         |                         |                         | FDE100VH                                       | FDE125VH            | FDE140VH            |
| Outdoor unit                        |                         |                         | FDC100VSA-W                                    | FDC125VSA-W         | FDC140VSA-W         |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz            |                     |                     |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                            | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 12.5 )                            | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating         | kW                      | 2.85 / 2.54                                    | 4.45 / 3.74         | 5.05 / 4.18         |
| EER/COP                             | Cooling/Heating         |                         | 3.51 / 4.41                                    | 2.81 / 3.74         | 2.69 / 3.71         |
| Inrush current                      |                         | A                       | 5  | 5                   | 5                   |
| Max. current                        |                         |                         | 15   | 15                  | 15                  |
| Sound power level*1                 | Indoor                  | Cooling/Heating         | 64 / 64  | 64 / 64             | 65 / 65             |
|                                     | Outdoor                 | Cooling/Heating         | 69 / 70  | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | 48 / 43 / 38 / 34                              | 48 / 45 / 40 / 35   | 49 / 45 / 40 / 36   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 48 / 43 / 38 / 34                              | 48 / 45 / 40 / 35   | 49 / 45 / 40 / 36   |
|                                     | Outdoor                 | Cooling/Heating         | 54 / 55  | 54 / 56             | 56 / 58             |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | 32 / 26 / 21 / 16.5                            | 32 / 29 / 23 / 17   | 34 / 29 / 23 / 18   |
| Air flow                            | Indoor                  | Heating (P-Hi/Hi/Me/Lo) | 32 / 26 / 21 / 16.5                            | 32 / 29 / 23 / 17   | 34 / 29 / 23 / 18   |
|                                     | Outdoor                 | Cooling/Heating         | 75 / 73  | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | 250 x 1,620 x 690                              |                     |                     |
|                                     | Outdoor                 |                         | 845 x 970 x 370                                |                     |                     |
| Net weight                          | Indoor                  |                         | 43   |                     |                     |
|                                     | Outdoor                 |                         | 78   |                     |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                       |                     |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.50   |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.50 / Max.15                                |                     |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~50*2                                       |                     |                     |
|                                     | Heating                 | °CWB                    | -20~20   |                     |                     |
| Air filter, Q'ty                    |                         |                         | Pocket Plastic net x2(Washable)                |                     |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3 |                     |                     |

### NOTES:

The data are measured under the following conditions(ISO-T1, -H1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

| R32                                 |                      |                         | Micro Inverter                                    |                     |                     |                     |
|-------------------------------------|----------------------|-------------------------|---|---------------------|---------------------|---------------------|
| Set model name                      |                      |                         | FDE100VNAWPVH                                     | FDE125VNAWPVH       | FDE140VNAWPVH       | FDE140VNAWTVH       |
|                                     |                      |                         | Twin  |                     | Triple              |                     |
| Indoor unit                         |                      |                         | FDE50VH x 2                                       | FDE60VH x 2         | FDE71VH x 2         | FDE50VH x 3         |
| Outdoor unit                        |                      |                         | FDC100VNA-W                                       | FDC125VNA-W         | FDC140VNA-W         | FDC140VNA-W         |
| Power source                        |                      |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                     |                     |                     |
| Nominal cooling capacity (Min~Max)  |                      | kW                      | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |                      | kW                      | 11.2 ( 4.0 ~ 12.5 )                               | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating      | kW                      | 3.12 / 2.99                                       | 4.16 / 3.54         | 4.74 / 4.21         | 4.74 / 4.21         |
| EER/COP                             | Cooling/Heating      |                         | 3.21 / 3.75                                       | 3.00 / 3.95         | 2.87 / 3.68         | 2.87 / 3.68         |
| Inrush current                      |                      | A                       | 5   | 5                   | 5                   | 5                   |
| Max. current                        |                      |                         | 24  | 24                  | 24                  | 24                  |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup> | Cooling/Heating         | 60 / 60   | 60 / 60             | 60 / 60             | 60 / 60             |
|                                     | Outdoor              | Cooling/Heating         | 69 / 70   | 71 / 71             | 72 / 73             | 72 / 73             |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup> | Cooling (P-Hi/Hi/Me/Lo) | 46 / 38 / 36 / 31                                 | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31   |
|                                     |                      | Heating (P-Hi/Hi/Me/Lo) | 46 / 38 / 36 / 31                                 | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31   |
|                                     | Outdoor              | Cooling/Heating         | 54 / 55   | 54 / 56             | 56 / 58             | 56 / 58             |
| Air flow                            | Indoor* <sup>3</sup> | Cooling (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 7                                   | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7     |
|                                     |                      | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 7                                   | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7     |
|                                     | Outdoor              | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor               | HeightxWidthxDepth      | 210 x 1,070 x 690                                 | 210 x 1,320 x 690   |                     | 210 x 1,070 x 690   |
|                                     | Outdoor              |                         | 845 x 970 x 370                                   |                     |                     |                     |
| Net weight                          | Indoor               | kg                      | 28  | 33                  |                     | 28                  |
|                                     | Outdoor              |                         | 77  |                     |                     |                     |
| Ref.piping size                     | Liquid/Gas           |                         | ømm 9.52(3/8") / 15.88(5/8")                      |                     |                     |                     |
| Refrigerant line (one way) length   |                      |                         | m Max. 50   |                     |                     |                     |
| Vertical height differences         |                      |                         | Outdoor is higher/lower m Max.50 / Max.15         |                     |                     |                     |
| Outdoor operating temperature range | Cooling              | °CDB                    | -15~50* <sup>2</sup>                              |                     |                     |                     |
|                                     | Heating              | °CWB                    | -20~20  |                     |                     |                     |
| Air filter, Q'ty                    |                      |                         | Pocket plastic net x 2(Washable)                  |                     |                     |                     |
| Remote control (option)             |                      |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                     |                     |                     |

The values are for simultaneous Multi operation.

| R32                                 |                         |                    | Micro Inverter                                    |                     |                     |                     |
|-------------------------------------|-------------------------|--------------------|---|---------------------|---------------------|---------------------|
| Set model name                      |                         |                    | FDE100VSAWPVH                                     | FDE125VSAWPVH       | FDE140VSAWPVH       | FDE140VSAWTVH       |
|                                     |                         |                    | Twin  |                     | Triple              |                     |
| Indoor unit                         |                         |                    | FDE50VH x 2                                       | FDE60VH x 2         | FDE71VH x 2         | FDE50VH x 3         |
| Outdoor unit                        |                         |                    | FDC100VSA-W                                       | FDC125VSA-W         | FDC140VSA-W         | FDC140VSA-W         |
| Power source                        |                         |                    | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                     |                     |                     |
| Nominal cooling capacity (Min~Max)  |                         | kW                 | 10.0 ( 4.0 ~ 11.2 )                               | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |                         | kW                 | 11.2 ( 4.0 ~ 12.5 )                               | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating         | kW                 | 3.12 / 2.99                                       | 4.16 / 3.54         | 4.74 / 4.21         | 4.74 / 4.21         |
| EER/COP                             | Cooling/Heating         |                    | 3.21 / 3.75                                       | 3.00 / 3.95         | 2.87 / 3.68         | 2.87 / 3.68         |
| Inrush current                      |                         | A                  | 5   | 5                   | 5                   | 5                   |
| Max. current                        |                         |                    | 15  | 15                  | 15                  | 15                  |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup>    | dB(A)              | Cooling/Heating                                   | 60 / 60             | 60 / 60             | 60 / 60             |
|                                     | Outdoor                 |                    | Cooling/Heating                                   | 69 / 70             | 71 / 71             | 72 / 73             |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup>    | dB(A)              | Cooling (P-Hi/Hi/Me/Lo)                           | 46 / 38 / 36 / 31   | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   |
|                                     | Heating (P-Hi/Hi/Me/Lo) |                    | 46 / 38 / 36 / 31                                 | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   |                     |
|                                     | Outdoor                 |                    | Cooling/Heating                                   | 54 / 55             | 54 / 56             | 56 / 58             |
| Air flow                            | Indoor* <sup>3</sup>    | m³/min             | Cooling (P-Hi/Hi/Me/Lo)                           | 13 / 10 / 9 / 7     | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   |
|                                     | Heating (P-Hi/Hi/Me/Lo) |                    | 13 / 10 / 9 / 7                                   | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   |                     |
|                                     | Outdoor                 |                    | Cooling/Heating                                   | 75 / 73             | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth | mm  | 210 x 1,320 x 690   |                     | 210 x 1,070 x 690   |
|                                     | Outdoor                 |                    |   | 845 x 970 x 370     |                     |                     |
| Net weight                          | Indoor                  |                    | kg  | 28                  |                     | 28                  |
|                                     | Outdoor                 |                    |   | 78                  |                     |                     |
| Ref.piping size                     | Liquid/Gas              | ømm                | 9.52(3/8") / 15.88(5/8")                          |                     |                     |                     |
| Refrigerant line (one way) length   |                         | m                  | Max.50  |                     |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | m                  | Max.50 / Max.15                                   |                     |                     |                     |
| Outdoor operating temperature range | Cooling                 | °CDB               | -15~50* <sup>2</sup>                              |                     |                     |                     |
|                                     | Heating                 | °CWB               | -20~20  |                     |                     |                     |
| Air filter, Q'ty                    |                         |                    | Pocket plastic net x 2(Washable)                  |                     |                     |                     |
| Remote control (option)             |                         |                    | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                     |                     |                     |



## SPECIFICATIONS - FDE -

The values are for simultaneous Multi operation.

| R32                                 |                         |                         | Micro Inverter                      |   |                          |                     |                          |
|-------------------------------------|-------------------------|-------------------------|-------------------------------------|---|--------------------------|---------------------|--------------------------|
| Set model name                      |                         |                         | FDE200VSAWPH                        | FDE250VSAWPH                                      | FDE280VSAWPH             | FDE200VSAWTVH       |                          |
|                                     |                         |                         | Twin                                |   |                          | Triple              |                          |
| Indoor unit                         |                         |                         | FDE100VH x 2                        | FDE125VH x 2                                      | FDE140VH x 2             | FDE71VH x 3         |                          |
| Outdoor unit                        |                         |                         | FDC200VSA-W                         | FDC250VSA-W                                       | FDC280VSA-W              | FDC200VSA-W         |                          |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz |   |                          |                     |                          |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 20.0 ( 6.7 ~ 22.4 )                 | 25.0 ( 6.7 ~ 28.0 )                               | 27.0 ( 7.1 ~ 31.5 )      | 20.0 ( 7.5 ~ 22.4 ) |                          |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 22.4 ( 6.6 ~ 25.0 )                 | 28.0 ( 5.2 ~ 31.5 )                               | 30.0 ( 5.8 ~ 33.5 )      | 22.4 ( 6.6 ~ 25.0 ) |                          |
| Power consumption                   | Cooling/Heating         | kW                      | 6.29 / 5.66                         | 8.20 / 7.93                                       | 9.31 / 8.98              | 6.29 / 5.66         |                          |
| EER/COP                             | Cooling/Heating         |                         | 3.18 / 3.96                         | 3.05 / 3.53                                       | 2.90 / 3.34              | 3.18 / 3.96         |                          |
| Inrush current                      |                         | A                       | 5                                   | 5   | 5                        | 5                   |                          |
| Max. current                        |                         |                         | 19                                  | 20  | 20                       | 19                  |                          |
| Sound power level*1                 | Indoor*3                | Cooling/Heating         | dB(A)                               | 64 / 64   | 65 / 65                  | 60 / 60             |                          |
|                                     | Outdoor                 |                         |                                     | Cooling/Heating                                   | 72 / 74                  | 73 / 75             | 75 / 77                  |
| Sound pressure level*1              | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo) |                                     | 48 / 43 / 38 / 34                                 | 48 / 45 / 40 / 35        | 49 / 45 / 40 / 36   | 47 / 41 / 37 / 32        |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |                                     | 48 / 43 / 38 / 34                                 | 48 / 45 / 40 / 35        | 49 / 45 / 40 / 36   | 47 / 41 / 37 / 32        |
| Air flow                            | Outdoor                 | Cooling/Heating         | 58 / 59                             | 58 / 62   | 61 / 63                  | 58 / 59             |                          |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | 32 / 26 / 21 / 16.5                 | 32 / 29 / 23 / 17                                 | 34 / 29 / 23 / 18        | 20 / 16 / 13 / 10   |                          |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 32 / 26 / 21 / 16.5                 | 32 / 29 / 23 / 17                                 | 34 / 29 / 23 / 18        | 20 / 16 / 13 / 10   |                          |
|                                     | Outdoor                 | Cooling/Heating         | 148 / 134                           | 148 / 153   | 136 / 140                | 148 / 134           |                          |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm                                  | 250 x 1,620 x 690                                 |                          |                     | 210 x 1,320 x 690        |
|                                     | Outdoor                 |                         |                                     | 1,505 x 970 x 370                                 |                          |                     |                          |
| Net weight                          | Indoor                  |                         | kg                                  | 43  |                          |                     | 33                       |
|                                     | Outdoor                 |                         |                                     | 144   | 145                      | 155                 | 144                      |
| Ref.piping size                     | Liquid/Gas              |                         | ømm                                 | 9.52(3/8") / 22.22(7/8")                          | 12.7(1/2") / 22.22(7/8") |                     | 9.52(3/8") / 22.22(7/8") |
| Refrigerant line (one way) length   |                         |                         | m                                   | Max.70  |                          | Max.60              | Max.70                   |
| Vertical height differences         | Outdoor is higher/lower |                         | m                                   | Max.50*4 / Max.15                                 |                          |                     |                          |
| Outdoor operating temperature range | Cooling                 |                         | °CDB                                | -15~50*2  |                          |                     |                          |
|                                     | Heating                 |                         | °CWB                                | -20~20  |                          |                     |                          |
| Air filter, Q'ty                    |                         |                         |                                     | Pocket plastic net x 2(Washable)                  |                          |                     |                          |
| Remote control (option)             |                         |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                          |                     |                          |

The values are for simultaneous Multi operation.

| R32                                 |                         |                         | Micro Inverter                                    |                          |                     |
|-------------------------------------|-------------------------|-------------------------|---|--------------------------|---------------------|
| Set model name                      |                         |                         | FDE200VSAWDVH                                     | FDE250VSAWDVH            | FDE280VSAWDVH       |
|                                     |                         |                         | Double Twin                                       |                          |                     |
| Indoor unit                         |                         |                         | FDE50VH x 4                                       | FDE60VH x 4              | FDE71VH x 4         |
| Outdoor unit                        |                         |                         | FDC200VSA-W                                       | FDC250VSA-W              | FDC280VSA-W         |
| Power source                        |                         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz               |                          |                     |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 20.0 ( 7.8 ~ 22.4 )                               | 25.0 ( 7.8 ~ 28.0 )      | 27.0 ( 7.5 ~ 31.5 ) |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 22.4 ( 6.6 ~ 25.0 )                               | 28.0 ( 5.2 ~ 31.5 )      | 30.0 ( 5.8 ~ 33.5 ) |
| Power consumption                   | Cooling/Heating         | kW                      | 6.29 / 5.66                                       | 8.04 / 7.32              | 9.15 / 8.98         |
| EER/COP                             | Cooling/Heating         |                         | 3.18 / 3.96                                       | 3.11 / 3.83              | 2.95 / 3.34         |
| Inrush current                      |                         | A                       | 5   | 5                        | 5                   |
| Max. current                        |                         |                         | 19  | 20                       | 20                  |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup>    | Cooling/Heating         | 60 / 60   | 60 / 60                  | 60 / 60             |
|                                     | Outdoor                 | Cooling/Heating         | 72 / 74   | 73 / 75                  | 75 / 77             |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup>    | Cooling (P-Hi/Hi/Me/Lo) | 46 / 38 / 36 / 31                                 | 47 / 41 / 37 / 32        | 47 / 41 / 37 / 32   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 46 / 38 / 36 / 31                                 | 47 / 41 / 37 / 32        | 47 / 41 / 37 / 32   |
|                                     | Outdoor                 | Cooling/Heating         | 58 / 59   | 58 / 62                  | 61 / 63             |
| Air flow                            | Indoor* <sup>3</sup>    | Cooling (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 7                                   | 20 / 16 / 13 / 10        | 20 / 16 / 13 / 10   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 13 / 10 / 9 / 7                                   | 20 / 16 / 13 / 10        | 20 / 16 / 13 / 10   |
|                                     | Outdoor                 | Cooling/Heating         | 148 / 134   | 148 / 153                | 136 / 140           |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | 210 x 1,070 x 690                                 | 210 x 1,320 x 690        |                     |
|                                     | Outdoor                 |                         | 1,505 x 970 x 370                                 |                          |                     |
| Net weight                          | Indoor                  | kg                      | 28  | 33                       |                     |
|                                     | Outdoor                 |                         | 144   | 145                      | 155                 |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 22.22(7/8")                          | 12.7(1/2") / 22.22(7/8") |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.70  |                          | Max.60              |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.50* <sup>4</sup> / Max.15                     |                          |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~-50* <sup>2</sup>                             |                          |                     |
|                                     | Heating                 | °CWB                    | -20~20  |                          |                     |
| Air filter, Q'ty                    |                         |                         | Pocket plastic net x 2(Washable)                  |                          |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                          |                     |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

| R410A                               |                         |                         | Micro Inverter                      |   |                     |                                     |                     |                     |                   |                   |
|-------------------------------------|-------------------------|-------------------------|-------------------------------------|---|---------------------|-------------------------------------|---------------------|---------------------|-------------------|-------------------|
| Set model name                      |                         |                         | FDE100VNAVH                         | FDE125VNAVH                                       | FDE140VNAVH         | FDE100VSAVH                         | FDE125VSAVH         | FDE140VSAVH         |                   |                   |
| Indoor unit                         |                         |                         | FDE100VH                            | FDE125VH  | FDE140VH            | FDE100VH                            | FDE125VH            | FDE140VH            |                   |                   |
| Outdoor unit                        |                         |                         | FDC100VNA                           | FDC125VNA   | FDC140VNA           | FDC100VSA                           | FDC125VSA           | FDC140VSA           |                   |                   |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |   |                     | 3 Phase 380-415V, 50Hz / 380V, 60Hz |                     |                     |                   |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                 | 12.5 ( 5.0 ~ 14.0 )                               | 13.6 ( 5.0 ~ 14.5 ) | 10.0 ( 4.0 ~ 11.2 )                 | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |                   |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 12.5 )                 | 14.0 ( 4.0 ~ 16.0 )                               | 15.5 ( 4.0 ~ 16.5 ) | 11.2 ( 4.0 ~ 12.5 )                 | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |                   |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 2.85 / 2.70                         | 4.45 / 3.74                                       | 5.21 / 4.42         | 2.85 / 2.70                         | 4.45 / 3.74         | 5.21 / 4.42         |                   |                   |
| EER/COP                             | Cooling/Heating         |                         | 3.51 / 4.15                         | 2.81 / 3.74                                       | 2.61 / 3.51         | 3.51 / 4.15                         | 2.81 / 3.74         | 2.61 / 3.51         |                   |                   |
| Inrush current                      |                         | A                       | 5                                   | 5   | 5                   | 5                                   | 5                   | 5                   |                   |                   |
| Max. current                        |                         |                         | 24                                  | 24  | 24                  | 15                                  | 15                  | 15                  |                   |                   |
| Sound power level*1                 | Indoor                  | Cooling/Heating         | dB(A)                               | 64 / 64   | 64 / 64             | 65 / 65                             | 64 / 64             | 65 / 65             |                   |                   |
|                                     | Outdoor                 | Cooling/Heating         |                                     | 70 / 70   | 71 / 71             | 73 / 73                             | 70 / 70             | 71 / 71             | 73 / 73           |                   |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) |                                     | 48 / 43 / 38 / 34                                 | 48 / 45 / 40 / 35   | 49 / 45 / 40 / 36                   | 48 / 43 / 38 / 34   | 48 / 45 / 40 / 35   | 49 / 45 / 40 / 36 |                   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |                                     | 48 / 43 / 38 / 34                                 | 48 / 45 / 40 / 35   | 49 / 45 / 40 / 36                   | 48 / 43 / 38 / 34   | 48 / 45 / 40 / 35   | 49 / 45 / 40 / 36 |                   |
|                                     | Outdoor                 | Cooling/Heating         |                                     | 54 / 56   | 55/ 57              | 57 / 59                             | 54 / 56             | 55/ 57              | 57 / 59           |                   |
| Air flow                            | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) |                                     | m³/min  | 32 / 26 / 21 / 16.5 | 32 / 29 / 23 / 17                   | 34 / 29 / 23 / 18   | 32 / 26 / 21 / 16.5 | 32 / 29 / 23 / 17 | 34 / 29 / 23 / 18 |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |                                     |   | 32 / 26 / 21 / 16.5 | 32 / 29 / 23 / 17                   | 34 / 29 / 23 / 18   | 32 / 26 / 21 / 16.5 | 32 / 29 / 23 / 17 | 34 / 29 / 23 / 18 |
|                                     | Outdoor                 | Cooling/Heating         |                                     |   | 75 / 73             | 75 / 73                             | 75 / 73             | 75 / 73             | 75 / 73           | 75 / 73           |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm                                  | 250 x 1,620 x 690                                 |                     |                                     |                     |                     |                   |                   |
|                                     | Outdoor                 |                         |                                     | 845 x 970 x 370                                   |                     |                                     |                     |                     |                   |                   |
| Net weight                          | Indoor                  |                         | kg                                  | 43  |                     |                                     |                     |                     |                   |                   |
|                                     | Outdoor                 |                         |                                     | 80  |                     | 82                                  |                     |                     |                   |                   |
| Ref.piping size                     | Liquid/Gas              |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")                          |                     |                                     |                     |                     |                   |                   |
| Refrigerant line (one way) length   |                         |                         | m                                   | Max.50  |                     |                                     |                     |                     |                   |                   |
| Vertical height differences         | Outdoor is higher/lower |                         | m                                   | Max.50 / Max.15                                   |                     |                                     |                     |                     |                   |                   |
| Outdoor operating temperature range | Cooling                 |                         | °CDB                                | -15~50*2  |                     |                                     |                     |                     |                   |                   |
|                                     | Heating                 |                         | °CWB                                | -20~20  |                     |                                     |                     |                     |                   |                   |
| Air filter, Q'ty                    |                         |                         |                                     | Pocket Plastic net x2(Washable)                   |                     |                                     |                     |                     |                   |                   |
| Remote control (option)             |                         |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                     |                                     |                     |                     |                   |                   |

The values are for simultaneous Multi operation.

| R410A                               |                         |                         | Micro Inverter                      |   |                     |                     |                   |
|-------------------------------------|-------------------------|-------------------------|-------------------------------------|---|---------------------|---------------------|-------------------|
| Set model name                      |                         |                         | FDE100VNAPVH                        | FDE125VNAPVH                                      | FDE140VNAPVH        | FDE140VNATVH        |                   |
|                                     |                         |                         | Twin                                |   | Triple              |                     |                   |
| Indoor unit                         |                         |                         | FDE50VH x 2                         | FDE60VH x 2                                       | FDE71VH x 2         | FDE50VH x 3         |                   |
| Outdoor unit                        |                         |                         | FDC100VNA                           | FDC125VNA   | FDC140VNA           | FDC140VNA           |                   |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |   |                     |                     |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 10.0 ( 4.0 ~ 11.2 )                 | 12.5 ( 5.0 ~ 14.0 )                               | 13.6 ( 5.0 ~ 14.5 ) | 13.6 ( 5.0 ~ 14.5 ) |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 11.2 ( 4.0 ~ 12.5 )                 | 14.0 ( 4.0 ~ 16.0 )                               | 15.5 ( 4.0 ~ 16.5 ) | 15.5 ( 4.0 ~ 16.5 ) |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 3.12 / 2.99                         | 4.16 / 3.54                                       | 4.74 / 4.21         | 4.74 / 4.21         |                   |
| EER/COP                             | Cooling/Heating         |                         | 3.21 / 3.75                         | 3.00 / 3.95                                       | 2.87 / 3.68         | 2.87 / 3.68         |                   |
| Inrush current                      |                         | A                       | 5                                   | 5   | 5                   | 5                   |                   |
| Max. current                        |                         |                         | 24                                  | 24  | 24                  | 24                  |                   |
| Sound power level* <sup>1</sup>     | Indoor* <sup>3</sup>    | Cooling/Heating         | dB(A)                               | 60 / 60   | 60 / 60             | 60 / 60             |                   |
|                                     | Outdoor                 |                         |                                     | Cooling/Heating                                   | 70 / 70             | 71 / 71             | 73 / 73           |
| Sound pressure level* <sup>1</sup>  | Indoor* <sup>3</sup>    | Cooling (P-Hi/Hi/Me/Lo) |                                     | 46 / 38 / 36 / 31                                 | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31 |
|                                     | Indoor* <sup>3</sup>    | Heating (P-Hi/Hi/Me/Lo) |                                     | 46 / 38 / 36 / 31                                 | 47 / 41 / 37 / 32   | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31 |
| Air flow                            | Outdoor                 | Cooling/Heating         |                                     | 54 / 56   | 55 / 57             | 57 / 59             | 57 / 59           |
|                                     | Indoor* <sup>3</sup>    | Cooling (P-Hi/Hi/Me/Lo) |                                     | 13 / 10 / 9 / 7                                   | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |                                     | 13 / 10 / 9 / 7                                   | 20 / 16 / 13 / 10   | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7   |
|                                     | Outdoor                 | Cooling/Heating         |                                     | 75 / 73   | 75 / 73             | 75 / 73             | 75 / 73           |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm                                  | 210 x 1,070 x 690                                 | 210 x 1,320 x 690   | 210 x 1,070 x 690   |                   |
|                                     | Outdoor                 |                         |                                     | 845 x 970 x 370                                   |                     |                     |                   |
| Net weight                          | Indoor                  |                         | kg                                  | 28  | 33                  | 28                  |                   |
|                                     | Outdoor                 |                         |                                     | 80  |                     |                     |                   |
| Ref.piping size                     | Liquid/Gas              |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")                          |                     |                     |                   |
| Refrigerant line (one way) length   |                         |                         | m                                   | Max. 50   |                     |                     |                   |
| Vertical height differences         | Outdoor is higher/lower |                         | m                                   | Max.50 / Max.15                                   |                     |                     |                   |
| Outdoor operating temperature range | Cooling                 |                         | °CDB                                | -15~50* <sup>2</sup>                              |                     |                     |                   |
|                                     | Heating                 |                         | °CWB                                | -20~20  |                     |                     |                   |
| Air filter, Q'ty                    |                         |                         |                                     | Pocket plastic net x 2(Washable)                  |                     |                     |                   |
| Remote control (option)             |                         |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                     |                     |                   |

## SPECIFICATIONS - FDE -

The values are for simultaneous Multi operation.

| R410A                               |                         | Micro Inverter                      |  |                     |                     |
|-------------------------------------|-------------------------|-------------------------------------|--|---------------------|---------------------|
| Set model name                      |                         | FDE100VSAPVH                        | FDE125VSAPVH                                   | FDE140VSAPVH        | FDE140VSATVH        |
|                                     |                         | Twin                                |  | Triple              |                     |
| Indoor unit                         |                         | FDE50VH x 2                         | FDE60VH x 2                                    | FDE71VH x 2         | FDE50VH x 3         |
| Outdoor unit                        |                         | FDC100VSA                           | FDC125VSA                                      | FDC140VSA           | FDC140VSA           |
| Power source                        |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz |  |                     |                     |
| Nominal cooling capacity (Min~Max)  | kW                      | 10.0 ( 4.0 ~ 11.2 )                 | 12.5 ( 5.0 ~ 14.0 )                            | 13.6 ( 5.0 ~ 14.5 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  | kW                      | 11.2 ( 4.0 ~ 12.5 )                 | 14.0 ( 4.0 ~ 16.0 )                            | 15.5 ( 4.0 ~ 16.5 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   | Cooling/Heating         | kW                                  | 3.12 / 2.99                                    | 4.16 / 3.54         | 4.74 / 4.21         |
| EER/COP                             | Cooling/Heating         |                                     | 3.21 / 3.75                                    | 3.00 / 3.95         | 2.87 / 3.68         |
| Inrush current                      |                         | A                                   | 5  | 5                   | 5                   |
| Max. current                        |                         |                                     | 15   | 15                  | 15                  |
| Sound power level*1                 | Indoor*3                | Cooling/Heating                     | 60 / 60  | 60 / 60             | 60 / 60             |
|                                     | Outdoor                 | Cooling/Heating                     | 70 / 70  | 73 / 73             | 73 / 73             |
| Sound pressure level*1              | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo)             | 46 / 38 / 36 / 31                              | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo)             | 46 / 38 / 36 / 31                              | 47 / 41 / 37 / 32   | 46 / 38 / 36 / 31   |
|                                     | Outdoor                 | Cooling/Heating                     | 54 / 56  | 55 / 57             | 57 / 59             |
| Air flow                            | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo)             | 13 / 10 / 9 / 7                                | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7     |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo)             | 13 / 10 / 9 / 7                                | 20 / 16 / 13 / 10   | 13 / 10 / 9 / 7     |
|                                     | Outdoor                 | Cooling/Heating                     | 75 / 73  | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth                  | mm   | 210 x 1,070 x 690   | 210 x 1,070 x 690   |
|                                     | Outdoor                 |                                     |  | 210 x 1,320 x 690   | 210 x 1,070 x 690   |
|                                     |                         |                                     |  | 845 x 970 x 370     |                     |
| Net weight                          | Indoor                  |                                     | kg   | 28                  | 33                  |
|                                     | Outdoor                 |                                     |  | 82                  | 28                  |
| Ref.piping size                     | Liquid/Gas              | ømm                                 | 9.52(3/8") / 15.88(5/8")                       |                     |                     |
| Refrigerant line (one way) length   |                         | m                                   | Max.50   |                     |                     |
| Vertical height differences         | Outdoor is higher/lower | m                                   | Max.50 / Max.15                                |                     |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                                | -15~50*2                                       |                     |                     |
|                                     | Heating                 | °CWB                                | -20~20   |                     |                     |
| Air filter, Q'ty                    |                         |                                     | Pocket plastic net x 2(Washable)               |                     |                     |
| Remote control (option)             |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3 |                     |                     |

The values are for simultaneous Multi operation.

| R410A                               |                         | Micro Inverter                      |  |                          |                          |                          |
|-------------------------------------|-------------------------|-------------------------------------|--|--------------------------|--------------------------|--------------------------|
| Set model name                      |                         | FDE200VSAPVH                        | FDE250VSAPVH                                   | FDE200VSATVH             | FDE200VSADVH             | FDE250VSADVH             |
|                                     |                         | Twin                                |  | Triple                   | Double Twin              |                          |
| Indoor unit                         |                         | FDE100VH x 2                        | FDE125VH x 2                                   | FDE71VH x 3              | FDE50VH x 4              | FDE60VH x 4              |
| Outdoor unit                        |                         | FDC200VSA                           | FDC250VSA                                      | FDC200VSA                | FDC200VSA                | FDC250VSA                |
| Power source                        |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz |  |                          |                          |                          |
| Nominal cooling capacity (Min~Max)  | kW                      | 19.0 ( 5.2 ~ 22.4 )                 | 24.0 ( 6.9 ~ 28.0 )                            | 19.0 ( 5.2 ~ 22.4 )      | 19.0 ( 5.2 ~ 22.4 )      | 24.0 ( 6.9 ~ 28.0 )      |
| Nominal heating capacity (Min~Max)  | kW                      | 22.4 ( 3.3 ~ 25.0 )                 | 27.0 ( 5.5 ~ 31.5 )                            | 22.4 ( 3.3 ~ 25.0 )      | 22.4 ( 3.3 ~ 25.0 )      | 27.0 ( 5.5 ~ 31.5 )      |
| Power consumption                   | Cooling/Heating         | kW                                  | 6.34 / 6.10                                    | 8.52 / 7.54              | 6.33 / 5.94              | 6.90 / 7.10              |
| EER/COP                             | Cooling/Heating         |                                     | 3.00 / 3.67                                    | 2.82 / 3.58              | 3.00 / 3.77              | 2.75 / 3.15              |
| Inrush current                      |                         | A                                   | 5  | 5                        | 5                        | 5                        |
| Max. current                        |                         |                                     | 20   | 21                       | 20                       | 21                       |
| Sound power level*1                 | Indoor*3                | Cooling/Heating                     | 64 / 64  | 64 / 64                  | 60 / 60                  | 60 / 60                  |
|                                     | Outdoor                 | Cooling/Heating                     | 72 / 74  | 73 / 75                  | 72 / 74                  | 73 / 75                  |
| Sound pressure level*1              | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo)             | 48 / 43 / 38 / 34                              | 48 / 45 / 40 / 35        | 47 / 41 / 37 / 32        | 46 / 38 / 36 / 31        |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo)             | 48 / 43 / 38 / 34                              | 48 / 45 / 40 / 35        | 47 / 41 / 37 / 32        | 46 / 38 / 36 / 31        |
|                                     | Outdoor                 | Cooling/Heating                     | 58 / 59  | 59 / 62                  | 58 / 59                  | 58 / 59                  |
| Air flow                            | Indoor*3                | Cooling (P-Hi/Hi/Me/Lo)             | 32 / 26 / 21 / 16.5                            | 32 / 29 / 23 / 17        | 20 / 16 / 13 / 10        | 13 / 10 / 9 / 7          |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo)             | 32 / 26 / 21 / 16.5                            | 32 / 29 / 23 / 17        | 20 / 16 / 13 / 10        | 13 / 10 / 9 / 7          |
|                                     | Outdoor                 | Cooling/Heating                     | 135 / 135                                      | 143 / 151                | 135 / 135                | 135 / 135                |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth                  | mm   | 250 x 1,620 x 690        | 210 x 1,320 x 690        | 210 x 1,070 x 690        |
|                                     | Outdoor                 |                                     |  | 1,300 x 970 x 370        | 1,505 x 970 x 370        | 1,300 x 970 x 370        |
|                                     |                         |                                     |  | 43                       | 33                       | 28                       |
| Net weight                          | Indoor                  |                                     | kg   | 115                      | 143                      | 33                       |
|                                     | Outdoor                 |                                     |  | 115                      | 115                      | 143                      |
| Ref.piping size                     | Liquid/Gas              | ømm                                 | 9.52(3/8") / 22.22(7/8")                       | 12.7(1/2") / 22.22(7/8") | 9.52(3/8") / 22.22(7/8") | 9.52(3/8") / 22.22(7/8") |
| Refrigerant line (one way) length   |                         | m                                   | Max.70   |                          |                          |                          |
| Vertical height differences         | Outdoor is higher/lower | m                                   | Max.30 / Max.15                                |                          |                          |                          |
| Outdoor operating temperature range | Cooling                 | °CDB                                | -15~50*2                                       |                          |                          |                          |
|                                     | Heating                 | °CWB                                | -15~20   |                          |                          |                          |
| Air filter, Q'ty                    |                         |                                     | Pocket plastic net x 2(Washable)               |                          |                          |                          |
| Remote control (option)             |                         |                                     | wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3 |                          |                          |                          |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

| R32                                 |                 |                         | Standard Inverter                                 |                          |                     |                          |
|-------------------------------------|-----------------|-------------------------|---|--------------------------|---------------------|--------------------------|
| Set model name                      |                 |                         | FDE71VNPVWH                                       | FDE90VNPVWH              | FDE100VNPVWH        | FDE125VNPVWH             |
| Indoor unit                         |                 |                         | FDE71VH   | FDE100VH                 | FDE100VH            | FDE125VH                 |
| Outdoor unit                        |                 |                         | FDC71VNP-W  | FDC90VNP-W               | FDC100VNP-W         | FDC125VNP-W              |
| Power source                        |                 |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                          |                     |                          |
| Nominal cooling capacity (Min~Max)  |                 | kW                      | 7.1 ( 1.5 ~ 7.3 )                                 | 9.0 ( 2.1 ~ 9.5 )        | 10.0 ( 2.1 ~ 10.2 ) | 12.1 ( 5.0 ~ 12.1 )      |
| Nominal heating capacity (Min~Max)  |                 | kW                      | 7.1 ( 1.1 ~ 7.3 )                                 | 9.0 ( 1.7 ~ 9.5 )        | 10.0 ( 1.7 ~ 10.4 ) | 12.1 ( 4.0 ~ 13.3 )      |
| Power consumption                   | Cooling/Heating | kW                      | 2.41 / 1.96                                       | 2.38 / 1.99              | 3.00 / 2.36         | 3.88 / 3.30              |
| EER/COP                             | Cooling/Heating |                         | 2.95 / 3.62                                       | 3.78 / 4.52              | 3.33 / 4.24         | 3.12 / 3.30              |
| Inrush current                      |                 | A                       | 5   | 5                        | 5                   | 5                        |
| Max. current                        |                 |                         | 15.8  | 19                       | 19                  | 18                       |
| Sound power level*1                 | Indoor          | Cooling/Heating         | 60 / 60   | 64 / 64                  | 64 / 64             | 64 / 64                  |
|                                     | Outdoor         | Cooling/Heating         | 67 / 67   | 67 / 66                  | 68 / 67             | 73 / 72                  |
| Sound pressure level*1              | Indoor          | Cooling (P-Hi/Hi/Me/Lo) | 47 / 41 / 37 / 32                                 | 48 / 43 / 38 / 34        | 48 / 43 / 38 / 34   | 48 / 45 / 40 / 35        |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 47 / 41 / 37 / 32                                 | 48 / 43 / 38 / 34        | 48 / 43 / 38 / 34   | 48 / 45 / 40 / 35        |
|                                     | Outdoor         | Cooling/Heating         | 54 / 54   | 55 / 53                  | 56 / 54             | 57 / 57                  |
|                                     |                 |                         |   |                          |                     |                          |
| Air flow                            | Indoor          | Cooling (P-Hi/Hi/Me/Lo) | 20 / 16 / 13 / 10                                 | 32 / 26 / 21 / 16.5      | 32 / 26 / 21 / 16.5 | 32 / 29 / 23 / 17        |
|                                     |                 | Heating (P-Hi/Hi/Me/Lo) | 20 / 16 / 13 / 10                                 | 32 / 26 / 21 / 16.5      | 32 / 26 / 21 / 16.5 | 32 / 29 / 23 / 17        |
|                                     | Outdoor         | Cooling/Heating         | 42 / 42   | 59 / 55                  | 63 / 55             | 75 / 79                  |
| Exterior dimensions                 | Indoor          | HeightxWidthxDepth      | 210 x 1,320 x 690                                 | 250 x 1,620 x 690        |                     |                          |
|                                     | Outdoor         |                         | 640 x 800(+71) x 290                              | 750 x 880(+88) x 340     |                     | 845 x 970 x 370          |
| Net weight                          | Indoor          | kg                      | 33  | 43                       |                     |                          |
|                                     | Outdoor         |                         | 45  | 57                       |                     | 73                       |
| Ref.piping size                     | Liquid/Gas      | ømm                     | 6.35(1/4") / 12.7(1/2")                           | 6.35(1/4") / 15.88(5/8") |                     | 9.52(3/8") / 15.88(5/8") |
| Refrigerant line (one way) length   |                 | m                       | Max.30  |                          |                     |                          |
| Vertical height differences         |                 | Outdoor is higher/lower | Max.20 / Max.20                                   |                          |                     |                          |
| Outdoor operating temperature range | Cooling         | °CDB                    | -15~46*2  |                          |                     |                          |
|                                     | Heating         | °CWB                    | -15~20  |                          |                     |                          |
| Air filter, Q'ty                    |                 |                         | Pocket Plastic net x2(Washable)                   |                          |                     |                          |
| Remote control (option)             |                 |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                          |                     |                          |

| R410A                               |                         |                         | Standard Inverter                                 |                          |                          |                     |
|-------------------------------------|-------------------------|-------------------------|---|--------------------------|--------------------------|---------------------|
| Set model name                      |                         |                         | FDE71VNPVH  |                          | FDE90VNP1VH              | FDE100VNP1VH        |
| Indoor unit                         |                         |                         | FDE71VH   | FDE100VH                 | FDE100VH                 |                     |
| Outdoor unit                        |                         |                         | FDC71VNP  | FDC90VNP1                | FDC100VNP                |                     |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz               |                          |                          |                     |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 7.1 ( 1.4 ~ 7.1 )                                 | 9.0 ( 1.9 ~ 9.0 )        | 10.0 ( 2.8 ~ 11.2 )      |                     |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 7.1 ( 1.0 ~ 7.1 )                                 | 9.0 ( 1.5 ~ 9.0 )        | 11.2 ( 2.5 ~ 12.5 )      |                     |
| Power consumption                   | Cooling/Heating         | kW                      | 2.50 / 1.96                                       | 2.75 / 2.22              | 2.66 / 2.94              |                     |
| EER/COP                             | Cooling/Heating         |                         | 2.84 / 3.62                                       | 3.27 / 4.05              | 3.76 / 3.81              |                     |
| Inrush current                      |                         | A                       | 5   | 5                        | 5                        |                     |
| Max. current                        |                         |                         | 14.5  | 18                       | 21                       |                     |
| Sound power level*1                 | Indoor                  | Cooling/Heating         | 60 / 60   | 64 / 64                  | 64 / 64                  |                     |
|                                     | Outdoor                 | Cooling/Heating         | 67 / 67   | 69 / 69                  | 70 / 70                  |                     |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | 47 / 41 / 37 / 32                                 | 48 / 43 / 38 / 34        | 48 / 43 / 38 / 34        |                     |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 47 / 41 / 37 / 32                                 | 48 / 43 / 38 / 34        | 48 / 43 / 38 / 34        |                     |
|                                     | Outdoor                 | Cooling/Heating         | 54 / 54   | 57 / 55                  | 57 / 61                  |                     |
|                                     |                         | Indoor                  | Cooling (P-Hi/Hi/Me/Lo)                           | 20 / 16 / 13 / 10        | 32 / 26 / 21 / 16.5      | 32 / 26 / 21 / 16.5 |
|                                     | Heating (P-Hi/Hi/Me/Lo) |                         | 20 / 16 / 13 / 10                                 | 32 / 26 / 21 / 16.5      | 32 / 26 / 21 / 16.5      |                     |
| Air flow                            | Outdoor                 | Cooling/Heating         | 36 / 36   | 63 / 49.5                | 75 / 79                  |                     |
|                                     | Exterior dimensions     | Indoor<br>Outdoor       | HeightxWidthxDepth                                | mm                       | 250 x 1,620 x 690        |                     |
| Net weight                          | Indoor                  |                         | kg  | 33                       | 43                       | 845 x 970 x 370     |
|                                     | Outdoor                 |                         | kg  | 45                       | 57                       | 70                  |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 6.35(1/4") / 12.7(1/2")                           | 6.35(1/4") / 15.88(5/8") | 9.52(3/8") / 15.88(5/8") |                     |
| Refrigerant line (one way) length   |                         | m                       | Max.30  |                          |                          |                     |
| Vertical height differences         |                         | Outdoor is higher/lower | m   | Max.20 / Max.20          |                          |                     |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~46*2  |                          |                          |                     |
|                                     | Heating                 | °CWB                    | -15~20  |                          |                          |                     |
| Air filter, Q'ty                    |                         |                         | Pocket Plastic net x2(Washable)                   |                          |                          |                     |
| Remote control (option)             |                         |                         | wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3 |                          |                          |                     |

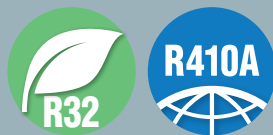
# FDF

## Indoor Unit Floor Standing

New



FDF 71/100/125/140



### Remote control

#### Wired



(installed)

#### Wireless



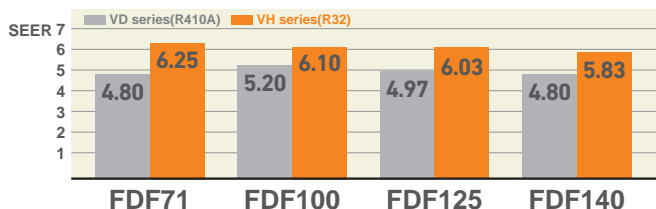
RCN-KIT4-E2  
(option)

\*Not all functions available with all remote control options.

\*The remote control for the FDF-VD series will be RC-E5 type remote.

## High Efficiency

Energy efficiency is improved by New heat exchanger design (In case of Hyper INV).

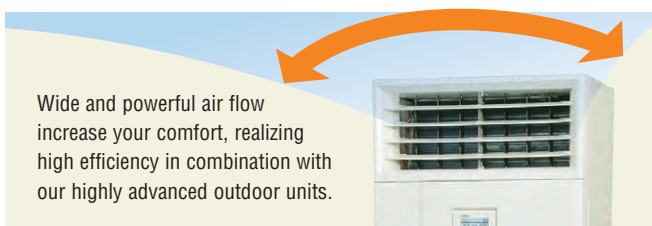


## Improved operability and visibility

Equipped with eco-touch remote control as standard equipment. Various functions can now be controlled. (VH series)



## Wide and Powerful Air Flow



## Equipped with a leak detector device

Can now be safely used with the new refrigerant detector that detects leakage of the refrigerant. (VH series)

Remote control will integrate leak detector functions:  
Audible and visible alarm



### Leak detector



inside

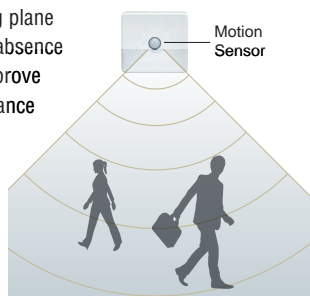


## Motion Sensor (Option)

Motion sensor is equipped in the ceiling plane or wall plane and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



LB-KIT2





## Easy Transportation and Installation Workability

Piping and drain hose connection can be selected out of 4-directions and the selection makes installation workability more effective.



Due to slim design (Depth: 329mm, weight:49kg), easy transportation and installation are realized.







### Easy Maintenance

The surface of heat exchanger can be appeared only removing the front panel. Easy cleaning of heat exchanger is possible.

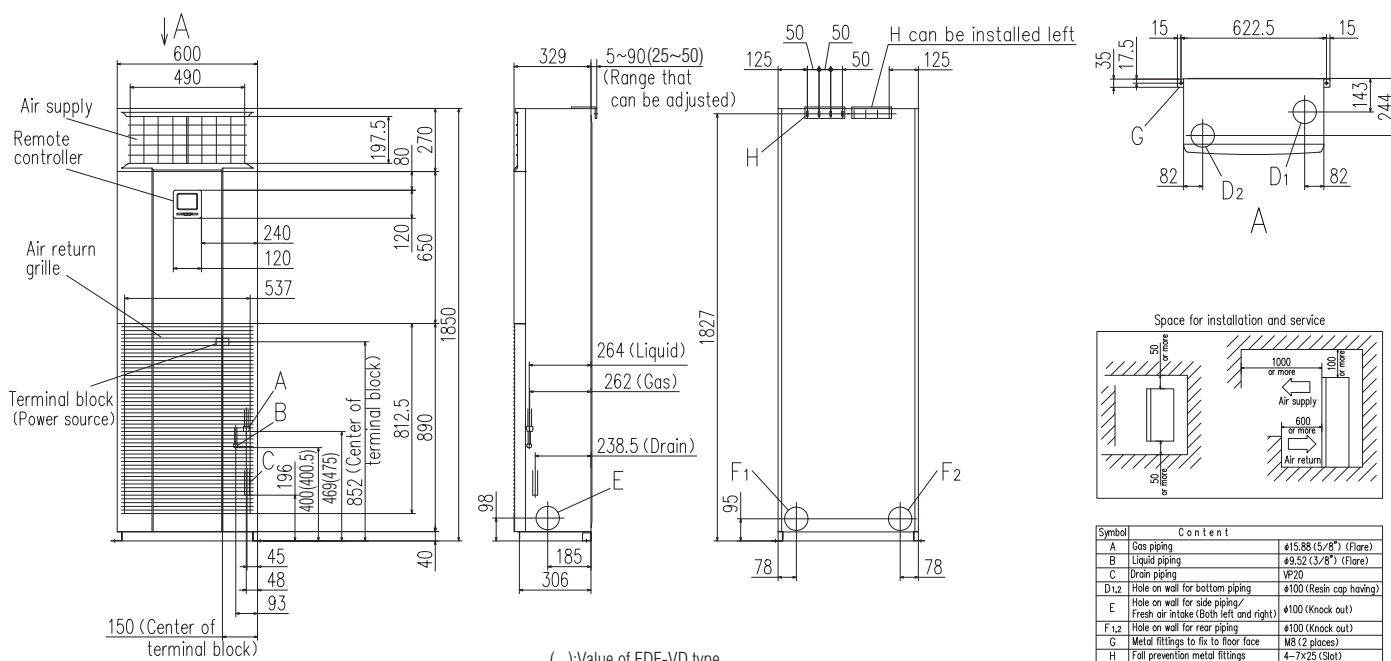


## OUTDOOR UNIT

|                             |  | Hyper Inverter  |   |
|-----------------------------|--|---|---|
| FDC                         |  | 71VNX-W   | 100~140VN(S)X-W   |
|                             |  | 71VNX   | 100~140VN(S)X   |
| model                       |  |  |  |
| Chargeless                  |  | 30m   |   |
| Height x Width x Depth (mm) |  | 750 x 880(+88) x 340  | 1,300 x 970 x 370   |

|                             |  | Micro Inverter  |   |   | Standard Inverter  |   |   |
|-----------------------------|--|---|---|---|--|---|---|
| FDC                         |  | 100~140VN(S)A-W   | —   | 200•250•280VSA-W  | 71VNP-W  | 90•100VNP-W   | —   |
|                             |  | 100~140VN(S)A   | 200VSA  | 250VSA  | 71VNP  | 90VNP1  | 100VNP  |
| model                       |  |  |  |  |  |  |  |
| Chargeless                  |  | 30m   |   |   | 15m  |   |   |
| Height x Width x Depth (mm) |  | 845 x 970 x 370   | 1,300 x 970 x 370   | 1,505 x 970 x 370   | 640 x 800(+71) x 290   | 750 x 880(+88) x 340  | 845 x 970 x 370   |

## DIMENSIONS (Unit:mm) - FDF -



\*FDF-VD type does not have F<sub>2</sub> and D<sub>2</sub>.

## SPECIFICATIONS - FDF -

| R32                                 |         |                         | Hyper Inverter                      |  |                     |                     |
|-------------------------------------|---------|-------------------------|-------------------------------------|--|---------------------|---------------------|
| Set model name                      |         |                         | FDF71VNXWVH                         | FDF100VNXWVH   | FDF125VNXWVH        | FDF140VNXWVH        |
| Indoor unit                         |         |                         | FDF71VH                             | FDF100VH   | FDF125VH            | FDF140VH            |
| Outdoor unit                        |         |                         | FDC71VNX-W                          | FDC100VNX-W  | FDC125VNX-W         | FDC140VNX-W         |
| Power source                        |         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |  |                     |                     |
| Nominal cooling capacity (Min~Max)  |         | kW                      | 7.1 ( 3.2 ~ 8.0 )                   | 10.0 ( 3.5 ~ 11.2 )                                      | 12.5 ( 3.5 ~ 14.0 ) | 14.0 ( 3.5 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)  |         | kW                      | 8.0 ( 3.6 ~ 9.0 )                   | 11.2 ( 2.7 ~ 12.5 )                                      | 14.0 ( 2.7 ~ 17.0 ) | 16.0 ( 2.7 ~ 18.0 ) |
| Power consumption                   |         | Cooling/Heating<br>kW   | 1.97 / 2.21                         | 2.66 / 2.94  | 3.74 / 3.88         | 4.62 / 4.69         |
| EER/COP                             |         | Cooling/Heating         | 3.61 / 3.62                         | 3.76 / 3.81  | 3.34 / 3.61         | 3.03 / 3.41         |
| Inrush current                      |         | A                       | 5                                   | 5  | 5                   | 5                   |
| Max. current                        |         |                         | 19.1                                | 25.0   | 27.0                | 27.0                |
| Sound power level*1                 | Indoor  | Cooling/Heating         | dB(A)                               | 55 / 55  | 65 / 65             | 67 / 67             |
|                                     | Outdoor | Cooling/Heating         |                                     | 66 / 66  | 67 / 67             | 68 / 70             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) |                                     | 42 / 39 / 35 / 33  | 53 / 51 / 49 / 44   | 55 / 51 / 49 / 44   |
|                                     |         | Heating (P-Hi/Hi/Me/Lo) |                                     | 42 / 39 / 35 / 33  | 53 / 51 / 49 / 44   | 55 / 51 / 49 / 44   |
| Air flow                            | Outdoor | Cooling/Heating         |                                     | 51 / 51  | 53 / 51             | 53 / 54             |
|                                     | Indoor  | Cooling (P-Hi/Hi/Me/Lo) |                                     | 18 / 16 / 14 / 12  | 27 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |
|                                     |         | Heating (P-Hi/Hi/Me/Lo) | 18 / 16 / 14 / 12                   | 27 / 26 / 23 / 19  | 29 / 26 / 23 / 19   |                     |
|                                     | Outdoor | Cooling/Heating         | 60 / 50                             | 100 / 100  | 100 / 100           |                     |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | mm                                  | 1,850 × 600 × 329  |                     |                     |
|                                     | Outdoor |                         |                                     | 750 × 880(+88) × 340                                     | 1,300 x 970 x 370   |                     |
| Net weight                          | Indoor  |                         | kg                                  | 47   |                     |                     |
|                                     | Outdoor |                         |                                     | 60   |                     |                     |
| Ref.piping size                     |         | Liquid/Gas              | ømm                                 | 9.52(3/8") / 15.88(5/8")                                 |                     |                     |
| Refrigerant line (one way) length   |         |                         | m                                   | Max.50   | Min. 3, Max.100     |                     |
| Vertical height differences         |         | Outdoor is higher/lower | m                                   | Max.30 / Max.15  | Max.50 / Max.15     |                     |
| Outdoor operating temperature range |         | Cooling                 | °CDB                                | -15~50*2   |                     |                     |
|                                     |         | Heating                 | °CWB                                | -20~20   |                     |                     |
| Air filter, Q'ty                    |         |                         |                                     | Plastic net x1(Washable)                                 |                     |                     |
| Remote control (option)             |         |                         |                                     | wired : RC-EX3A, RC-E5, RCH-E3    wireless : RCN-KIT4-E2 |                     |                     |

| R32                                 |            |                         | HyperInverter  |                          |                     |  |
|-------------------------------------|------------|-------------------------|--|--------------------------|---------------------|--|
| Set model name                      |            |                         | FDF100VSXWVH   | FDF125VSXWVH             | FDF140VSXWVH        |  |
| Indoor unit                         |            |                         | FDF100VH   | FDF125VH                 | FDF140VH            |  |
| Outdoor unit                        |            |                         | FDC100VSX-W  | FDC125VSX-W              | FDC140VSX-W         |  |
| Power source                        |            |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                      |                          |                     |  |
| Nominal cooling capacity (Min~Max)  |            | kW                      | 10.0 ( 3.5 ~ 11.2 )                                      | 12.5 ( 3.5 ~ 14.0 )      | 14.0 ( 3.5 ~ 16.0 ) |  |
| Nominal heating capacity (Min~Max)  |            | kW                      | 11.2 ( 2.7 ~ 16.0 )                                      | 14.0 ( 2.7 ~ 18.0 )      | 16.0 ( 2.7 ~ 20.0 ) |  |
| Power consumption                   |            | Cooling/Heating kW      | 2.66 / 2.95  | 3.74 / 3.88              | 4.62 / 4.70         |  |
| EER/COP                             |            | Cooling/Heating         | 3.76 / 3.80  | 3.34 / 3.61              | 3.03 / 3.41         |  |
| Inrush current                      |            | A                       | 5  | 5                        | 5                   |  |
| Max. current                        |            |                         | 14.0   | 14.0                     | 14.0                |  |
| Sound power level*1                 | Indoor     | Cooling/Heating         | 65 / 65  | 67 / 67                  | 67 / 67             |  |
|                                     | Outdoor    | Cooling/Heating         | 67 / 67  | 68 / 70                  | 69 / 71             |  |
| Sound pressure level*1              | Indoor     | Cooling (P-Hi/Hi/Me/Lo) | 53 / 51 / 49 / 44  | 55 / 51 / 49 / 44        | 55 / 51 / 49 / 44   |  |
|                                     |            | Heating (P-Hi/Hi/Me/Lo) | 53 / 51 / 49 / 44  | 55 / 51 / 49 / 44        | 55 / 51 / 49 / 44   |  |
| Air flow                            | Outdoor    | Cooling/Heating         | 53 / 51  | 53 / 54                  | 54 / 54             |  |
|                                     | Indoor     | Cooling (P-Hi/Hi/Me/Lo) | 27 / 26 / 23 / 19  | 29 / 26 / 23 / 19        | 29 / 26 / 23 / 19   |  |
|                                     |            | Heating (P-Hi/Hi/Me/Lo) | 27 / 26 / 23 / 19  | 29 / 26 / 23 / 19        | 29 / 26 / 23 / 19   |  |
| Exterior dimensions                 | Outdoor    | Cooling/Heating         | 100 / 100  | 100 / 100                | 100 / 100           |  |
|                                     | Indoor     | HeightxWidthxDepth      | mm   | 1,850 × 600 × 329        |                     |  |
| Outdoor                             |            |                         |  | 1300 × 970 × 370         |                     |  |
| Net weight                          | Indoor     |                         | kg   | 49                       |                     |  |
|                                     | Outdoor    |                         |  | 99                       |                     |  |
| Ref.piping size                     | Liquid/Gas |                         | ømm  | 9.52(3/8") / 15.88(5/8") |                     |  |
| Refrigerant line (one way) length   |            |                         | m  | Min. 3, Max.100          |                     |  |
| Vertical height differences         |            | Outdoor is higher/lower | m  | Max.50 / Max.15          |                     |  |
| Outdoor operating temperature range | Cooling    | °CDB                    | -15~50*2   |                          |                     |  |
|                                     | Heating    | °CWB                    | -20~20   |                          |                     |  |
| Air filter, Q'ty                    |            |                         | Plastic net x 1(washable)                                |                          |                     |  |
| Remote control (option)             |            |                         | wired : RC-EX3A, RC-E5, RCH-E3    wireless : RCN-KIT4-E2 |                          |                     |  |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

FDF

Indoor Unit

| R32                                 |                         |                    | HyperInverter  |                                     |
|-------------------------------------|-------------------------|--------------------|--|-------------------------------------|
| Set model name                      |                         |                    | FDF140VNXWPVH  | FDF140VSXWPVH                       |
|                                     |                         |                    | Twin   |                                     |
| Indoor unit                         |                         |                    | FDF71VH x 2  | FDF71VH x 2                         |
| Outdoor unit                        |                         |                    | FDC140VNX-W  | FDC140VSX-W                         |
| Power source                        |                         |                    | 1 Phase 220-240V, 50Hz / 220V, 60Hz                      | 3 Phase 380-415V, 50Hz / 380V, 60Hz |
| Nominal cooling capacity (Min~Max)  | kW                      |                    | 14.0 ( 3.5 ~ 16.0 )                                      | 14.0 ( 3.5 ~ 16.0 )                 |
| Nominal heating capacity (Min~Max)  | kW                      |                    | 16.0 ( 2.7 ~ 18.0 )                                      | 16.0 ( 2.7 ~ 20.0 )                 |
| Power consumption                   | Cooling/Heating         | kW                 | 3.78 / 4.26  | 3.78 / 4.27                         |
| EER/COP                             | Cooling/Heating         |                    | 3.71 / 3.75  | 3.71 / 3.75                         |
| Inrush current                      |                         | A                  | 5  | 5                                   |
| Max. current                        |                         |                    | 27.0   | 14.0                                |
| Sound power level*1                 | Indoor*3                | dB(A)              | 55 / 55  | 55 / 55                             |
|                                     | Outdoor                 |                    | 69 / 71  | 69 / 71                             |
| Sound pressure level*1              | Indoor*3                |                    | 42 / 39 / 35 / 33  | 42 / 39 / 35 / 33                   |
|                                     | Outdoor                 |                    | 54 / 54  | 54 / 54                             |
| Air flow                            | Indoor*3                | m³/min             | 18 / 16 / 14 / 12  | 18 / 16 / 14 / 12                   |
|                                     | Heating (P-Hi/Hi/Me/Lo) |                    | 18 / 16 / 14 / 12  | 18 / 16 / 14 / 12                   |
|                                     | Cooling/Heating         |                    | 100 / 100  | 100 / 100                           |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth | 1,850 × 600 × 329  |                                     |
|                                     | Outdoor                 |                    | 1300 × 970 × 370   |                                     |
| Net weight                          | Indoor                  | kg                 | 47   |                                     |
|                                     | Outdoor                 |                    | 97   | 99                                  |
| Ref.piping size                     | Liquid/Gas              | ømm                | 9.52(3/8") / 15.88(5/8")                                 |                                     |
| Refrigerant line (one way) length   |                         | m                  | Min. 3, Max.100  |                                     |
| Vertical height differences         | Outdoor is higher/lower | m                  | Max.50 / Max.15  |                                     |
| Outdoor operating temperature range | Cooling                 | °CDB               | -15~50*2   |                                     |
|                                     | Heating                 | °CWB               | -20~20   |                                     |
| Air filter, Q'ty                    |                         |                    | Plastic net x1(Washable)                                 |                                     |
| Remote control (option)             |                         |                    | wired : RC-EX3A, RC-E5, RCH-E3    wireless : RCN-KIT4-E2 |                                     |

| R410A                               |                         |                         | HyperInverter   |                      |                     |                     |                   |
|-------------------------------------|-------------------------|-------------------------|---|----------------------|---------------------|---------------------|-------------------|
| Set model name                      |                         |                         | FDF71VNXVD1   | FDF100VNXVD2         | FDF125VNXVD         | FDF140VNXVD         |                   |
| Indoor unit                         |                         |                         | FDF71VD1  | FDF100VD2            | FDF125VD            | FDF140VD            |                   |
| Outdoor unit                        |                         |                         | FDC71VNX  | FDC100VNX            | FDC125VNX           | FDC140VNX           |                   |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                   |                      |                     |                     |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 7.1 ( 3.2 ~ 8.0 )                                     | 10.0 ( 4.0 ~ 11.2 )  | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 ) |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 8.0 ( 3.6 ~ 9.0 )                                     | 11.2 ( 4.0 ~ 12.5 )  | 14.0 ( 4.0 ~ 17.0 ) | 16.0 ( 4.0 ~ 18.0 ) |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 2.21 / 2.21   | 2.83 / 3.04          | 3.89 / 3.88         | 4.65 / 4.69         |                   |
| EER/COP                             | Cooling/Heating         |                         | 3.21 / 3.62   | 3.53 / 3.68          | 3.21 / 3.61         | 3.01 / 3.41         |                   |
| Inrush current                      |                         | A                       | 5   | 5                    | 5                   | 5                   |                   |
| Max. current                        |                         |                         | 17  | 24                   | 26                  | 26                  |                   |
| Sound power level*1                 | Indoor                  | dB(A)                   | 61 / 61   | 65 / 65              | 73 / 73             | 73 / 73             |                   |
|                                     | Outdoor                 |                         | Cooling/Heating                                       | 66 / 66              | 70 / 70             | 70 / 70             | 72 / 72           |
| Sound pressure level*1              | Indoor                  |                         | Cooling (P-Hi/Hi/Me/Lo)                               | 42 / 39 / 35 / 33    | 54 / 50 / 48 / 44   | 54 / 50 / 48 / 44   | 54 / 50 / 48 / 44 |
|                                     |                         |                         | Heating (P-Hi/Hi/Me/Lo)                               | 42 / 39 / 35 / 33    | 54 / 50 / 48 / 44   | 54 / 50 / 48 / 44   | 54 / 50 / 48 / 44 |
| Air flow                            | Outdoor                 | Cooling/Heating         | 51 / 48   | 48 / 50              | 48 / 50             | 49 / 52             |                   |
|                                     | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | 20 / 18 / 16 / 14                                     | 29 / 26 / 23 / 19    | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |                   |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 20 / 18 / 16 / 14                                     | 29 / 26 / 23 / 19    | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |                   |
|                                     | Outdoor                 | Cooling/Heating         | 60 / 50   | 100 / 100            | 100 / 100           | 100 / 100           |                   |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm  | 1,850 x 600 x 320    |                     |                     |                   |
|                                     | Outdoor                 |                         |   | 750 x 880(+88) x 340 | 1,300 x 970 x 370   |                     |                   |
| Net weight                          | Indoor                  |                         | kg  | 52                   |                     |                     |                   |
|                                     | Outdoor                 |                         |   | 105                  |                     |                     |                   |
| Ref.piping size                     | Liquid/Gas              | ømm                     | 9.52(3/8") / 15.88(5/8")                              |                      |                     |                     |                   |
| Refrigerant line (one way) length   |                         | m                       | Max.50  | Max.100              |                     |                     |                   |
| Vertical height differences         | Outdoor is higher/lower | m                       | Max.30 / Max.15                                       |                      |                     |                     |                   |
| Outdoor operating temperature range | Cooling                 | °CDB                    | -15~43*2  |                      |                     |                     |                   |
|                                     | Heating                 | °CWB                    | -20~20  |                      |                     |                     |                   |
| Air filter, Q'ty                    |                         |                         | Plastic net x 1(washable)                             |                      |                     |                     |                   |
| Remote control                      |                         |                         | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option) |                      |                     |                     |                   |

## SPECIFICATIONS - FDF -

| R410A   |         |                         | Hyper Inverter  |                     |                     |
|---|---------|-------------------------|---|---------------------|---------------------|
| Set model name                                      |         |                         | FDF100VSXVD2  | FDF125VSXVD         | FDF140VSXVD         |
| Indoor unit   |         |                         | FDF100VD2   | FDF125VD            | FDF140VD            |
| Outdoor unit  |         |                         | FDC100VSX   | FDC125VSX           | FDC140VSX           |
| Power source  |         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                   |                     |                     |
| Nominal cooling capacity (Min~Max)                  |         |                         | 10.0 ( 4.0 ~ 11.2 )                                   | 12.5 ( 5.0 ~ 14.0 ) | 14.0 ( 5.0 ~ 16.0 ) |
| Nominal heating capacity (Min~Max)                  |         |                         | 11.2 ( 4.0 ~ 16.0 )                                   | 14.0 ( 4.0 ~ 18.0 ) | 16.0 ( 4.0 ~ 20.0 ) |
| Power consumption                                   |         |                         | 2.83 / 3.04   | 3.89 / 3.88         | 4.65 / 4.69         |
| EER/COP   |         |                         | 3.53 / 3.68   | 3.21 / 3.61         | 3.01 / 3.41         |
| Inrush current                                      |         |                         | 5   | 5                   | 5                   |
| Max. current  |         |                         | 15  | 15                  | 15                  |
| Sound power level*1                                 | Indoor  | Cooling/Heating         | 65 / 65   | 73 / 73             | 73 / 73             |
|   | Outdoor | Cooling/Heating         | 70 / 70   | 70 / 70             | 72 / 72             |
| Sound pressure level*1                              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 54 / 50 / 48 / 44                                     | 54 / 50 / 48 / 44   | 54 / 50 / 48 / 44   |
|   | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 54 / 50 / 48 / 44                                     | 54 / 50 / 48 / 44   | 54 / 50 / 48 / 44   |
|   | Outdoor | Cooling/Heating         | 48 / 50   | 48 / 50             | 49 / 52             |
|   | Outdoor | Cooling (P-Hi/Hi/Me/Lo) | 29 / 26 / 23 / 19                                     | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |
| Air flow  | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 29 / 26 / 23 / 19                                     | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |
|   | Outdoor | Cooling/Heating         | 100 / 100   | 100 / 100           | 100 / 100           |
| Exterior dimensions                                 | Indoor  | HeightxWidthxDepth      | 1,850 x 600 x 320                                     |                     |                     |
|   | Outdoor |                         | 1,300 x 970 x 370                                     |                     |                     |
| Net weight  | Indoor  |                         | 52  |                     |                     |
|   | Outdoor |                         | 105   |                     |                     |
| Ref.piping size Liquid/Gas                          |         |                         | 9.52(3/8") / 15.88(5/8")                              |                     |                     |
| Refrigerant line (one way) length                   |         |                         | Max.100   |                     |                     |
| Vertical height differences Outdoor is higher/lower |         |                         | Max.30 / Max.15                                       |                     |                     |
| Outdoor operating temperature range                 | Cooling | °CDB                    | -15~43*2  |                     |                     |
|   | Heating | °CWB                    | -20~20  |                     |                     |
| Air filter, Q'ty                                    |         |                         | Plastic net x 1(washable)                             |                     |                     |
| Remote control                                      |         |                         | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option) |                     |                     |

The values are for simultaneous Multi operation.

| R410A   |          |                         | Hyper Inverter  |                                    |
|---|----------|-------------------------|---|------------------------------------|
| Set model name                                      |          |                         | FDF140VNX PVD1  | FDF140VSX PVD1                     |
|   |          |                         | Twin  |                                    |
| Indoor unit   |          |                         | FDF71VD1 x 2  | FDF71VD1 x 2                       |
| Outdoor unit  |          |                         | FDC140VNX   | FDC140VSX                          |
| Power source  |          |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                   | 3 Phase 380-415V, 50Hz / 380V 60Hz |
| Nominal cooling capacity (Min~Max)                  |          |                         | 14.0 ( 5.0 ~ 16.0 )                                   | 14.0 ( 5.0 ~ 16.0 )                |
| Nominal heating capacity (Min~Max)                  |          |                         | 16.0 ( 4.0 ~ 18.0 )                                   | 16.0 ( 4.0 ~ 20.0 )                |
| Power consumption                                   |          |                         | 4.83 / 4.97   | 4.83 / 4.97                        |
| EER/COP   |          |                         | 2.90 / 3.22   | 2.90 / 3.22                        |
| Inrush current                                      |          |                         | 5   | 5                                  |
| Max. current  |          |                         | 26  | 15                                 |
| Sound power level*1                                 | Indoor*3 | Cooling/Heating         | 61 / 61   | 61 / 61                            |
|   | Outdoor  | Cooling/Heating         | 72 / 72   | 72 / 72                            |
| Sound pressure level*1                              | Indoor*3 | Cooling (P-Hi/Hi/Me/Lo) | 42 / 39 / 35 / 33                                     | 42 / 39 / 35 / 33                  |
|   | Indoor*3 | Heating (P-Hi/Hi/Me/Lo) | 42 / 39 / 35 / 33                                     | 42 / 39 / 35 / 33                  |
|   | Outdoor  | Cooling/Heating         | 49 / 52   | 49 / 52                            |
|   | Outdoor  | Cooling (P-Hi/Hi/Me/Lo) | 18 / 16 / 14 / 12                                     | 18 / 16 / 14 / 12                  |
| Air flow  | Indoor*3 | Heating (P-Hi/Hi/Me/Lo) | 18 / 16 / 14 / 12                                     | 18 / 16 / 14 / 12                  |
|   | Outdoor  | Cooling/Heating         | 100 / 100   | 100 / 100                          |
| Exterior dimensions                                 | Indoor   | HeightxWidthxDepth      | 1,850 x 600 x 320                                     |                                    |
|   | Outdoor  |                         | 1,300 x 970 x 370                                     |                                    |
| Net weight  | Indoor   |                         | 49  |                                    |
|   | Outdoor  |                         | 105   |                                    |
| Ref.piping size Liquid/Gas                          |          |                         | 9.52(3/8") / 15.88(5/8")                              |                                    |
| Refrigerant line (one way) length                   |          |                         | Max.100   |                                    |
| Vertical height differences Outdoor is higher/lower |          |                         | Max.30 / Max.15                                       |                                    |
| Outdoor operating temperature range                 | Cooling  | °CDB                    | -15~43*2  |                                    |
|   | Heating  | °CWB                    | -20~20  |                                    |
| Air filter, Q'ty                                    |          |                         | Plastic net x 1(washable)                             |                                    |
| Remote control                                      |          |                         | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option) |                                    |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

| R32                                 |         |                         | Micro Inverter   |                     |                     |
|-------------------------------------|---------|-------------------------|--|---------------------|---------------------|
| Set model name                      |         |                         | FDF100VNAWVH   | FDF125VNAWVH        | FDF140VNAWVH        |
| Indoor unit                         |         |                         | FDF100VH   | FDF125VH            | FDF140VH            |
| Outdoor unit                        |         |                         | FDC100VNA-W  | FDC125VNA-W         | FDC140VNA-W         |
| Power source                        |         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz                      |                     |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 4.0 ~ 11.2 )                                      | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 4.0 ~ 12.5 )                                      | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   |         |                         | 3.08 / 2.94  | 4.65 / 4.10         | 5.35 / 4.98         |
| EER/COP                             |         |                         | 3.25 / 3.81  | 2.69 / 3.42         | 2.54 / 3.11         |
| Inrush current                      |         |                         | 5  | 5                   | 5                   |
| Max. current                        |         |                         | 24.0   | 24.0                | 24.0                |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 65 / 65  | 67 / 67             | 67 / 67             |
|                                     | Outdoor | Cooling/Heating         | 69 / 70  | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 53 / 51 / 49 / 44  | 55 / 51 / 49 / 44   | 55 / 51 / 49 / 44   |
|                                     | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 53 / 51 / 49 / 44  | 55 / 51 / 49 / 44   | 55 / 51 / 49 / 44   |
|                                     | Outdoor | Cooling/Heating         | 54 / 55  | 54 / 56             | 56 / 58             |
|                                     | Outdoor | Cooling (P-Hi/Hi/Me/Lo) | 27 / 26 / 23 / 19  | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |
| Air flow                            | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 27 / 26 / 23 / 19  | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |
|                                     | Outdoor | Cooling/Heating         | 75 / 73  | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | 1,850 × 600 × 329  |                     |                     |
|                                     | Outdoor |                         | 845 × 970 × 370  |                     |                     |
| Net weight                          | Indoor  |                         | 49   |                     |                     |
|                                     | Outdoor |                         | 77   |                     |                     |
| Ref.piping size                     |         |                         | 9.52(3/8") / 15.88(5/8")                                 |                     |                     |
| Refrigerant line (one way) length   |         |                         | Max.50   |                     |                     |
| Vertical height differences         |         |                         | Max.50 / Max.15  |                     |                     |
| Outdoor operating temperature range | Cooling | °CDB                    | -15~50*2   |                     |                     |
|                                     | Heating | °CWB                    | -20~20   |                     |                     |
| Air filter, Q'ty                    |         |                         | Plastic net x1(Washable)                                 |                     |                     |
| Remote control (option)             |         |                         | wired : RC-EX3A, RC-E5, RCH-E3    wireless : RCN-KIT4-E2 |                     |                     |

| R32                                 |         |                         | Micro Inverter   |                     |                     |
|-------------------------------------|---------|-------------------------|--|---------------------|---------------------|
| Set model name                      |         |                         | FDF100VSAWVH   | FDF125VSAWVH        | FDF140VSAWVH        |
| Indoor unit                         |         |                         | FDF100VH   | FDF125VH            | FDF140VH            |
| Outdoor unit                        |         |                         | FDC100VSA-W  | FDC125VSA-W         | FDC140VSA-W         |
| Power source                        |         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                      |                     |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 4.0 ~ 11.2 )                                      | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 4.0 ~ 12.5 )                                      | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   |         |                         | 3.09 / 2.94  | 4.65 / 4.09         | 5.42 / 4.98         |
| EER/COP                             |         |                         | 3.25 / 3.81  | 2.69 / 3.42         | 2.51 / 3.11         |
| Inrush current                      |         |                         | 5  | 5                   | 5                   |
| Max. current                        |         |                         | 15.0   | 15.0                | 15.0                |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 65 / 65  | 67 / 67             | 67 / 67             |
|                                     | Outdoor | Cooling/Heating         | 69 / 70  | 71 / 71             | 72 / 73             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 53 / 51 / 49 / 44  | 55 / 51 / 49 / 44   | 55 / 51 / 49 / 44   |
|                                     | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 53 / 51 / 49 / 44  | 55 / 51 / 49 / 44   | 55 / 51 / 49 / 44   |
|                                     | Outdoor | Cooling/Heating         | 54 / 55  | 54 / 56             | 56 / 58             |
|                                     | Outdoor | Cooling (P-Hi/Hi/Me/Lo) | 27 / 26 / 23 / 19  | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |
| Air flow                            | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 27 / 26 / 23 / 19  | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |
|                                     | Outdoor | Cooling/Heating         | 75 / 73  | 75 / 73             | 75 / 73             |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | 1,850 × 600 × 329  |                     |                     |
|                                     | Outdoor |                         | 845 × 970 × 370  |                     |                     |
| Net weight                          | Indoor  |                         | 49   |                     |                     |
|                                     | Outdoor |                         | 78   |                     |                     |
| Ref.piping size                     |         |                         | 9.52(3/8") / 15.88(5/8")                                 |                     |                     |
| Refrigerant line (one way) length   |         |                         | Max.50   |                     |                     |
| Vertical height differences         |         |                         | Max.50 / Max.15  |                     |                     |
| Outdoor operating temperature range | Cooling | °CDB                    | -15~50*2   |                     |                     |
|                                     | Heating | °CWB                    | -20~20   |                     |                     |
| Air filter, Q'ty                    |         |                         | Plastic net x 1(Washable)                                |                     |                     |
| Remote control (option)             |         |                         | wired : RC-EX3A, RC-E5, RCH-E3    wireless : RCN-KIT4-E2 |                     |                     |



## SPECIFICATIONS - FDF -

The values are for simultaneous Multi operation.

| R32                                 |          |                         | Micro Inverter                      |   |                          |                          |                     |
|-------------------------------------|----------|-------------------------|-------------------------------------|---|--------------------------|--------------------------|---------------------|
| Set model name                      |          |                         | FDF140VNAWPH                        | FDF140VSAWPH  | FDF200VSAWPH             | FDF250VSAWPH             | FDF280VSAWPH        |
| Indoor unit                         |          |                         | FDF71VH x 2                         | FDF71VH x 2   | FDF100VH x 2             | FDF125VH x 2             | FDF140VH x 2        |
| Outdoor unit                        |          |                         | FDC140VNA-W                         | FDC140VSA-W   | FDC200VSA-W              | FDC250VSA-W              | FDC280VSA-W         |
| Power source                        |          |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |   |                          |                          |                     |
| Nominal cooling capacity (Min~Max)  |          |                         | 13.6 ( 5.0 ~ 14.5 )                 | 13.6 ( 5.0 ~ 14.5 )                                   | 20.0 ( 6.8 ~ 22.4 )      | 25.0 ( 6.8 ~ 28.0 )      | 27.0 ( 7.5 ~ 31.5 ) |
| Nominal heating capacity (Min~Max)  |          |                         | 15.5 ( 4.0 ~ 16.5 )                 | 15.5 ( 4.0 ~ 16.5 )                                   | 22.4 ( 6.6 ~ 25.0 )      | 28.0 ( 5.7 ~ 31.5 )      | 30.0 ( 6.3 ~ 33.5 ) |
| Power consumption                   |          |                         | 4.46 / 4.49                         | 4.58 / 4.49   | 6.71 / 6.06              | 9.54 / 8.37              | 10.93 / 9.47        |
| EER/COP                             |          |                         | 3.05 / 3.46                         | 3.05 / 3.46   | 2.98 / 3.69              | 2.62 / 3.35              | 2.47 / 3.17         |
| Inrush current                      |          |                         | 5                                   | 5   | 5                        | 5                        | 5                   |
| Max. current                        |          |                         | 24.0                                | 15.0  | 19.0                     | 20.0                     | 20.0                |
| Sound power level*1                 | Indoor*3 | Cooling/Heating         | 55 / 55                             | 55 / 55   | 65 / 65                  | 67 / 67                  | 67 / 67             |
|                                     | Outdoor  | Cooling/Heating         | 72 / 73                             | 72 / 73   | 72 / 74                  | 73 / 75                  | 75 / 77             |
| Sound pressure level*1              | Indoor*3 | Cooling (P-Hi/Hi/Me/Lo) | 42 / 39 / 35 / 33                   | 42 / 39 / 35 / 33                                     | 53 / 51 / 49 / 44        | 55 / 51 / 49 / 44        | 55 / 51 / 49 / 44   |
|                                     | Indoor*3 | Heating (P-Hi/Hi/Me/Lo) | 42 / 39 / 35 / 33                   | 42 / 39 / 35 / 33                                     | 53 / 51 / 49 / 44        | 55 / 51 / 49 / 44        | 55 / 51 / 49 / 44   |
| Air flow                            | Indoor*3 | Cooling/Heating         | 56 / 58                             | 56 / 58   | 58 / 59                  | 58 / 62                  | 61 / 63             |
|                                     | Outdoor  | Cooling/Heating         | 18 / 16 / 14 / 12                   | 18 / 16 / 14 / 12                                     | 27 / 26 / 23 / 19        | 29 / 26 / 23 / 19        | 29 / 26 / 23 / 19   |
| Exterior dimensions                 | Indoor   | HeightxWidthxDepth      | mm                                  | 1,850 x 600 x 329                                     |                          |                          |                     |
|                                     | Outdoor  | HeightxWidthxDepth      | mm                                  | 845 x 970 x 370                                       | 1505 x 970 x 370         |                          |                     |
| Net weight                          | Indoor   |                         | kg                                  | 47  | 49                       |                          |                     |
|                                     | Outdoor  |                         | kg                                  | 77  | 78                       | 144                      | 145                 |
| Ref.piping size                     |          |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")                              | 9.52(3/8") / 22.22(7/8") | 12.7(1/2") / 22.22(7/8") |                     |
| Refrigerant line (one way) length   |          |                         | m                                   | Max.50  | Max.70                   |                          | Max.60              |
| Vertical height differences         |          |                         | m                                   | Max.50 / Max.15                                       | Max.50*4 / Max.15        |                          |                     |
| Outdoor operating temperature range |          |                         | °CDB                                | -15~-50*2   |                          |                          |                     |
| Air filter, Q'ty                    |          |                         | °CWB                                | -20~20  |                          |                          |                     |
| Remote control (option)             |          |                         |                                     | Plastic net x 1 (Washable)                            |                          |                          |                     |
|                                     |          |                         |                                     | wired : RC-EX3A, RC-E5, RCH-E3 wireless : RCN-KIT4-E2 |                          |                          |                     |

| R410A                               |         |                         | Micro Inverter                      |   |                     |
|-------------------------------------|---------|-------------------------|-------------------------------------|---|---------------------|
| Set model name                      |         |                         | FDF100VNAVD2                        | FDF125VNAVD   | FDF140VNAVD         |
| Indoor unit                         |         |                         | FDF100VD2                           | FDF125VD  | FDF140VD            |
| Outdoor unit                        |         |                         | FDC100VNA                           | FDC125VNA   | FDC140VNA           |
| Power source                        |         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |   |                     |
| Nominal cooling capacity (Min~Max)  |         |                         | 10.0 ( 4.0 ~ 11.2 )                 | 12.5 ( 5.0 ~ 13.0 )                                   | 13.0 ( 5.0 ~ 13.0 ) |
| Nominal heating capacity (Min~Max)  |         |                         | 11.2 ( 4.0 ~ 12.5 )                 | 14.0 ( 4.0 ~ 16.0 )                                   | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                   |         |                         | 3.12 / 2.94                         | 4.65 / 4.14   | 5.02 / 4.98         |
| EER/COP                             |         |                         | 3.21 / 3.81                         | 2.69 / 3.38   | 2.59 / 3.11         |
| Inrush current                      |         |                         | 5                                   | 5   | 5                   |
| Max. current                        |         |                         | 24                                  | 24  | 24                  |
| Sound power level*1                 | Indoor  | Cooling/Heating         | 65 / 65                             | 73 / 73   | 73 / 73             |
|                                     | Outdoor | Cooling/Heating         | 70 / 70                             | 71 / 71   | 73 / 73             |
| Sound pressure level*1              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 54 / 50 / 48 / 44                   | 54 / 50 / 48 / 44                                     | 54 / 50 / 48 / 44   |
|                                     | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 54 / 50 / 48 / 44                   | 54 / 50 / 48 / 44                                     | 54 / 50 / 48 / 44   |
| Air flow                            | Indoor  | Cooling/Heating         | 54 / 56                             | 55 / 57   | 57 / 59             |
|                                     | Outdoor | Cooling/Heating         | 29 / 26 / 23 / 19                   | 29 / 26 / 23 / 19                                     | 29 / 26 / 23 / 19   |
| Exterior dimensions                 | Indoor  | HeightxWidthxDepth      | mm                                  | 1,850 x 600 x 320                                     |                     |
|                                     | Outdoor | HeightxWidthxDepth      | mm                                  | 845 x 970 x 370                                       |                     |
| Net weight                          | Indoor  |                         | kg                                  | 52  |                     |
|                                     | Outdoor |                         | kg                                  | 80  |                     |
| Ref.piping size                     |         |                         | ømm                                 | 9.52(3/8") / 15.88(5/8")                              |                     |
| Refrigerant line (one way) length   |         |                         | m                                   | Max.50  |                     |
| Vertical height differences         |         |                         | m                                   | Max.50 / Max.15                                       |                     |
| Outdoor operating temperature range |         |                         | °CDB                                | -15~-50*2   |                     |
| Air filter, Q'ty                    |         |                         | °CWB                                | -20~20  |                     |
| Remote control                      |         |                         |                                     | Plastic net x 1 (Washable)                            |                     |
|                                     |         |                         |                                     | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option) |                     |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

| R410A   |         |                         | Micro Inverter  |                     |                     |
|---|---------|-------------------------|---|---------------------|---------------------|
| Set model name                                      |         |                         | FDF100VSAVD2  | FDF125VSAVD         | FDF140VSAVD         |
| Indoor unit   |         |                         | FDF100VD2   | FDF125VD            | FDF140VD            |
| Outdoor unit  |         |                         | FDC100VSA   | FDC125VSA           | FDC140VSA           |
| Power source  |         |                         | 3 Phase 380-415V, 50Hz / 380V, 60Hz                   |                     |                     |
| Nominal cooling capacity (Min~Max)                  |         |                         | 10.0 ( 4.0 ~ 11.2 )                                   | 12.5 ( 5.0 ~ 14.0 ) | 13.6 ( 5.0 ~ 14.5 ) |
| Nominal heating capacity (Min~Max)                  |         |                         | 11.2 ( 4.0 ~ 12.5 )                                   | 14.0 ( 4.0 ~ 16.0 ) | 15.5 ( 4.0 ~ 16.5 ) |
| Power consumption                                   |         |                         | 3.12 / 2.94   | 4.65/ 4.14          | 5.42 / 4.98         |
| EER/COP   |         |                         | 3.21 / 3.81   | 2.69 / 3.38         | 2.51 / 3.11         |
| Inrush current                                      |         |                         | 5   | 5                   | 5                   |
| Max. current  |         |                         | 15  | 15                  | 15                  |
| Sound power level*1                                 | Indoor  | Cooling/Heating         | 65 / 65   | 73 / 73             | 73 / 73             |
|   | Outdoor | Cooling/Heating         | 70 / 70   | 71 / 71             | 73 / 73             |
| Sound pressure level*1                              | Indoor  | Cooling (P-Hi/Hi/Me/Lo) | 54 / 50 / 48 / 44                                     | 54 / 50 / 48 / 44   | 54 / 50 / 48 / 44   |
|   |         | Heating (P-Hi/Hi/Me/Lo) | 54 / 50 / 48 / 44                                     | 54 / 50 / 48 / 44   | 54 / 50 / 48 / 44   |
|   | Outdoor | Cooling/Heating         | 54 / 56   | 55 / 57             | 57 / 59             |
|   |         | Cooling (P-Hi/Hi/Me/Lo) | 29 / 26 / 23 / 19                                     | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |
| Air flow  | Indoor  | Heating (P-Hi/Hi/Me/Lo) | 29 / 26 / 23 / 19                                     | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19   |
|   |         | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
|   | Outdoor | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
|   |         | Cooling/Heating         | 75 / 73   | 75 / 73             | 75 / 73             |
| Exterior dimensions                                 | Indoor  | HeightxWidthxDepth      | 1,850 x 600 x 320                                     |                     |                     |
|   | Outdoor | HeightxWidthxDepth      | 845 x 970 x 370                                       |                     |                     |
| Net weight  | Indoor  |                         | 52  |                     |                     |
|   | Outdoor |                         | 82  |                     |                     |
| Ref.piping size Liquid/Gas                          |         |                         | 9.52(3/8") / 15.88(5/8")                              |                     |                     |
| Refrigerant line (one way) length                   |         |                         | Max.50  |                     |                     |
| Vertical height differences Outdoor is higher/lower |         |                         | Max.50 / Max.15                                       |                     |                     |
| Outdoor operating temperature range                 | Cooling | °CDB                    | -15~50*2  |                     |                     |
|   | Heating | °CWB                    | -20~20  |                     |                     |
| Air filter, Q'ty                                    |         |                         | Plastic net x 1(Washable)                             |                     |                     |
| Remote control                                      |         |                         | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option) |                     |                     |

The values are for simultaneous Multi operation.

| R410A                               |                         |                         | Micro Inverter   |  |                     |                     |                   |                   |
|-------------------------------------|-------------------------|-------------------------|--|--|---------------------|---------------------|-------------------|-------------------|
| Set model name                      |                         |                         | FDF140VNAPVD1  | FDF140VSAPVD1  | FDF200VSAPVD2       | FDF250VSAPVD        |                   |                   |
|                                     |                         |                         | Twin   |  |                     |                     |                   |                   |
| Indoor unit                         |                         |                         | FDF71VD1 x 2   | FDF71VD1 x 2   | FDF100VD2 x 2       | FDF125VD x 2        |                   |                   |
| Outdoor unit                        |                         |                         | FDC140VNA  | FDC140VSA  | FDC200VSA           | FDC250VSA           |                   |                   |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz3 Phase 380-415V, 50Hz / 380V, 60Hz |  |                     |                     |                   |                   |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 13.6 ( 5.0 ~ 14.5 )  | 13.6 ( 5.0 ~ 14.5 )  | 19.0 ( 5.2 ~ 22.4 ) | 24.0 ( 6.9 ~ 28.0 ) |                   |                   |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 15.5 ( 4.0 ~ 16.5 )  | 15.5 ( 4.0 ~ 16.5 )  | 22.4 ( 3.3 ~ 25.0 ) | 27.0 ( 5.5 ~ 31.5 ) |                   |                   |
| Power consumption                   | Cooling/Heating         | kW                      | 5.15 / 4.35  | 5.15 / 4.35  | 6.74 / 6.42         | 9.15 / 8.49         |                   |                   |
| EER/COP                             | Cooling/Heating         |                         | 2.64 / 3.56  | 2.64 / 3.56  | 2.82 / 3.49         | 2.62 / 3.18         |                   |                   |
| Inrush current                      |                         | A                       | 5  | 5  | 5                   | 5                   |                   |                   |
| Max. current                        |                         |                         | 24   | 15   | 20                  | 21                  |                   |                   |
| Sound power level*1                 | Indoor*3                | Cooling/Heating         | dB(A)  | 61 / 61  | 61 / 61             | 65 / 65             | 73 / 73           |                   |
|                                     | Outdoor                 |                         |  | Cooling/Heating  | 73 / 73             | 73 / 73             | 72 / 74           | 73 / 75           |
| Sound pressure level*1              | Indoor*3                |                         |  | Cooling (P-Hi/Hi/Me/Lo)  | 42 / 39 / 35 / 33   | 42 / 39 / 35 / 33   | 54 / 50 / 48 / 44 | 54 / 50 / 48 / 44 |
|                                     |                         |                         |  | Heating (P-Hi/Hi/Me/Lo)  | 42 / 39 / 35 / 33   | 42 / 39 / 35 / 33   | 54 / 50 / 48 / 44 | 54 / 50 / 48 / 44 |
| Air flow                            | Indoor*3                | Cooling/Heating         | m³/min   | 57 / 59  | 57 / 59             | 58 / 59             | 59 / 62           |                   |
|                                     |                         |                         |  | Cooling (P-Hi/Hi/Me/Lo)  | 18 / 16 / 14 / 12   | 18 / 16 / 14 / 12   | 29 / 26 / 23 / 19 | 29 / 26 / 23 / 19 |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) |  | 18 / 16 / 14 / 12  | 18 / 16 / 14 / 12   | 29 / 26 / 23 / 19   | 29 / 26 / 23 / 19 |                   |
|                                     | Outdoor                 | Cooling/Heating         |  | 75 / 73  | 75 / 73             | 135 / 135           | 143 / 151         |                   |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm   | 1,850 x 600 x 320  |                     |                     |                   |                   |
|                                     | Outdoor                 |                         |  | 845 x 970 x 370  | 1,300 x 970 x 370   | 1,505 x 970 x 370   |                   |                   |
| Net weight                          | Indoor                  |                         | kg   | 49   |                     |                     |                   |                   |
|                                     | Outdoor                 |                         |  | 80   | 82                  | 115                 | 143               |                   |
| Ref.piping size                     | Liquid/Gas              |                         | ømm  | 9.52(3/8") / 15.88(5/8")9.52(3/8") / 22.22(7/8")12.7(1/2") / 22.22(7/8") |                     |                     |                   |                   |
| Refrigerant line (one way) length   |                         |                         | m  | Max.50Max.70   |                     |                     |                   |                   |
| Vertical height differences         | Outdoor is higher/lower |                         | m  | Max.50 / Max.15Max.30 / Max.15   |                     |                     |                   |                   |
| Outdoor operating temperature range | Cooling                 |                         | °CDB   | -15~50*2   |                     |                     |                   |                   |
|                                     | Heating                 |                         | °CWB   | -20~20-15~20   |                     |                     |                   |                   |
| Air filter, Q'ty                    |                         |                         |  | Plastic net x 1(washable)  |                     |                     |                   |                   |
| Remote control                      |                         |                         |  | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)                    |                     |                     |                   |                   |

## SPECIFICATIONS - FDF -

| R32                                 |                                   |                         |                 | Standard Inverter  |                   |                   |                   |                     |                   |  |
|-------------------------------------|-----------------------------------|-------------------------|-----------------|--|-------------------|-------------------|-------------------|---------------------|-------------------|--|
| Set model name                      |                                   |                         |                 | FDF71VNPVH   |                   | FDF90VNPVH        |                   | FDF100VNPVH         |                   |  |
| Indoor unit                         |                                   |                         |                 | FDF71VH  |                   | FDF100VH          |                   | FDF100VH            |                   |  |
| Outdoor unit                        |                                   |                         |                 | FDC71VNP-W   |                   | FDC90VNP-W        |                   | FDC100VNP-W         |                   |  |
| Power source                        |                                   |                         |                 | 1 Phase 220-240V, 50Hz / 220V, 60Hz                      |                   |                   |                   |                     |                   |  |
| Nominal cooling capacity (Min~Max)  |                                   |                         | kW              | 7.1 ( 1.5 ~ 7.3 )  |                   | 9.0 ( 2.1 ~ 9.5 ) |                   | 10.0 ( 2.1 ~ 10.2 ) |                   |  |
| Nominal heating capacity (Min~Max)  |                                   |                         | kW              | 7.1 ( 1.1 ~ 7.3 )  |                   | 9.0 ( 1.7 ~ 9.5 ) |                   | 10.0 ( 1.7 ~ 10.4 ) |                   |  |
| Power consumption                   |                                   | Cooling/Heating         | kW              | 2.51 / 2.02  |                   | 2.50 / 2.24       |                   | 3.39 / 2.71         |                   |  |
| EER/COP                             |                                   | Cooling/Heating         |                 | 2.82 / 3.51  |                   | 3.60 / 4.02       |                   | 2.95 / 3.69         |                   |  |
| Inrush current                      |                                   |                         | A               | 5  |                   | 5                 |                   | 5                   |                   |  |
| Max. current                        |                                   |                         |                 | 15.8   |                   | 19.0              |                   | 19.0                |                   |  |
| Sound power level*1                 | Indoor                            | Cooling/Heating         | dB(A)           | 55 / 55  |                   | 65 / 65           |                   | 65 / 65             |                   |  |
|                                     | Outdoor                           | Cooling/Heating         |                 | 67 / 67  |                   | 67 / 66           |                   | 68 / 67             |                   |  |
| Sound pressure level*1              | Indoor                            | Cooling (P-Hi/Hi/Me/Lo) |                 | m³/min   | 42 / 39 / 35 / 33 |                   | 53 / 51 / 49 / 44 |                     | 53 / 51 / 49 / 44 |  |
|                                     |                                   | Heating (P-Hi/Hi/Me/Lo) |                 |  | 42 / 39 / 35 / 33 |                   | 53 / 51 / 49 / 44 |                     | 53 / 51 / 49 / 44 |  |
| Air flow                            | Outdoor                           | Cooling/Heating         |                 |  | 54 / 54           |                   | 55 / 53           |                     | 56 / 54           |  |
|                                     | Indoor                            | Cooling (P-Hi/Hi/Me/Lo) | m³/min          |  | 18 / 16 / 14 / 12 |                   | 27 / 26 / 23 / 19 |                     | 27 / 26 / 23 / 19 |  |
|                                     |                                   | Heating (P-Hi/Hi/Me/Lo) |                 | 18 / 16 / 14 / 12  |                   | 27 / 26 / 23 / 19 |                   | 27 / 26 / 23 / 19   |                   |  |
|                                     | Exterior dimensions               | Outdoor                 | Cooling/Heating |  | 42 / 42           |                   | 59 / 55           |                     | 63 / 55           |  |
| Indoor                              |                                   | HeightxWidthxDepth      | mm              | 1,850 × 600 × 329  |                   |                   |                   |                     |                   |  |
| Net weight                          | Indoor                            |                         | kg              | 640x800(+71)x290   |                   | 750x880(+88)x340  |                   |                     |                   |  |
|                                     | Outdoor                           |                         |                 | 47   |                   | 49                |                   | 49                  |                   |  |
| Ref.piping size                     | Liquid/Gas                        |                         | ømm             | 45   |                   | 57                |                   |                     |                   |  |
|                                     | Refrigerant line (one way) length | m                       |                 | 26   |                   | 25                |                   |                     |                   |  |
| Vertical height differences         |                                   | Outdoor is higher/lower | m               | Max.20 / Max.20  |                   |                   |                   |                     |                   |  |
| Outdoor operating temperature range |                                   | Cooling                 | °CDB            | -15~46*2   |                   |                   |                   |                     |                   |  |
|                                     |                                   | Heating                 | °CWB            | -15~20   |                   |                   |                   |                     |                   |  |
| Air filter, Q'ty                    |                                   |                         |                 | Plastic net x1(Washable)                                 |                   |                   |                   |                     |                   |  |
| Remote control (option)             |                                   |                         |                 | wired : RC-EX3A, RC-E5, RCH-E3    wireless : RCN-KIT4-E2 |                   |                   |                   |                     |                   |  |

| R410A                               |                         |                         | Standard Inverter                   |  |                          |                          |
|-------------------------------------|-------------------------|-------------------------|-------------------------------------|--|--------------------------|--------------------------|
| Set model name                      |                         |                         | FDF71VNPVD1                         |  | FDF90VNP1VD2             | FDF100VNP1VD2            |
| Indoor unit                         |                         |                         | FDF71VD1                            |  | FDF100VD2                | FDF100VD2                |
| Outdoor unit                        |                         |                         | FDC71VNP                            |  | FDC90VNP1                | FDC100VNP                |
| Power source                        |                         |                         | 1 Phase 220-240V, 50Hz / 220V, 60Hz |  |                          |                          |
| Nominal cooling capacity (Min~Max)  |                         | kW                      | 7.1 ( 1.4 ~ 7.1 )                   |  | 9.0 ( 1.9 ~ 9.0 )        | 10.0 ( 2.8 ~ 11.2 )      |
| Nominal heating capacity (Min~Max)  |                         | kW                      | 7.1 ( 1.0 ~ 7.1 )                   |  | 9.0 ( 1.5 ~ 9.0 )        | 11.2 ( 2.5 ~ 12.5 )      |
| Power consumption                   |                         | Cooling/Heating         | 2.67 / 2.04                         |  | 2.81 / 2.25              | 3.19 / 3.09              |
| EER/COP                             |                         | Cooling/Heating         | 2.66 / 3.48                         |  | 3.20 / 4.00              | 3.13 / 3.62              |
| Inrush current                      |                         | A                       | 5                                   |  | 5                        | 5                        |
| Max. current                        |                         |                         | 14.5                                |  | 18.0                     | 21.0                     |
| Sound power level*1                 | Indoor                  |                         | Cooling/Heating                     | 61 / 61  |                          | 65 / 65                  |
|                                     | Outdoor                 | Cooling/Heating         | 67 / 67                             |  | 69 / 69                  | 70 / 70                  |
| Sound pressure level*1              | Indoor                  | Cooling (P-Hi/Hi/Me/Lo) | 42 / 39 / 35 / 33                   |  | 54 / 50 / 48 / 44        | 54 / 50 / 48 / 44        |
|                                     |                         | Heating (P-Hi/Hi/Me/Lo) | 42 / 39 / 35 / 33                   |  | 54 / 50 / 48 / 44        | 54 / 50 / 48 / 44        |
| Air flow                            | Outdoor                 | Cooling/Heating         | 54 / 54                             |  | 57 / 55                  | 57 / 61                  |
|                                     |                         | Cooling (P-Hi/Hi/Me/Lo) | 20 / 18 / 16 / 14                   |  | 29 / 26 / 23 / 19        | 29 / 26 / 23 / 19        |
|                                     | Indoor                  | Heating (P-Hi/Hi/Me/Lo) | 20 / 18 / 16 / 14                   |  | 29 / 26 / 23 / 19        | 29 / 26 / 23 / 19        |
|                                     |                         | Outdoor                 | Cooling/Heating                     | 36 / 36  |                          | 63 / 49.5                |
| Exterior dimensions                 | Indoor                  | HeightxWidthxDepth      | mm                                  | 1,850 x 600 x 320  |                          |                          |
|                                     | Outdoor                 |                         |                                     | 640 x 800(+71) x 290                                     | 750 x 880(+88) x 340     | 845 x 970 x 370          |
| Net weight                          | Indoor                  |                         | kg                                  | 49   | 52                       |                          |
|                                     | Outdoor                 |                         |                                     | 45   | 57                       | 70                       |
| Ref.piping size                     | Liquid/Gas              |                         | ømm                                 | 6.35(1/4") / 12.7(1/2")                                  | 6.35(1/4") / 15.88(5/8") | 9.52(3/8") / 15.88(5/8") |
| Refrigerant line (one way) length   |                         |                         | m                                   | Max.23   |                          | Max.30                   |
| Vertical height differences         | Outdoor is higher/lower |                         | m                                   | Max.20 / Max.20  |                          |                          |
| Outdoor operating temperature range | Cooling                 |                         | °CDB                                | -15~-46*2  |                          |                          |
|                                     | Heating                 |                         | °CWB                                | -15~20   |                          |                          |
| Air filter, Q'ty                    |                         |                         |                                     | Plastic net x1(Washable)                                 |                          |                          |
| Remote control                      |                         |                         |                                     | wired:RC-E5 (installed)    wireless:RCN-KIT4-E2 (option) |                          |                          |

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

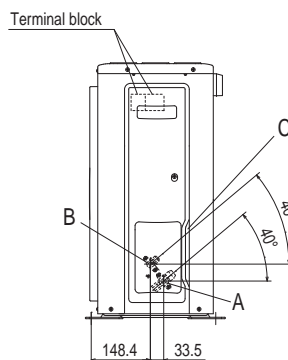
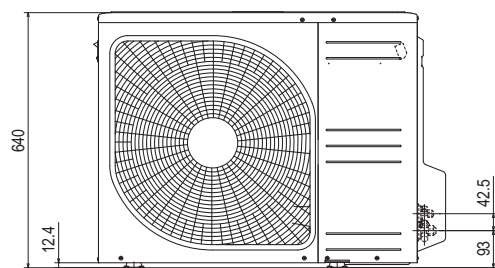
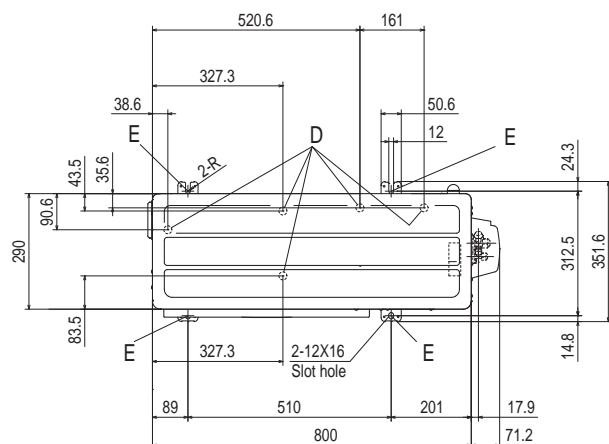
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

# Outdoor Unit Dimensions (Unit:mm)

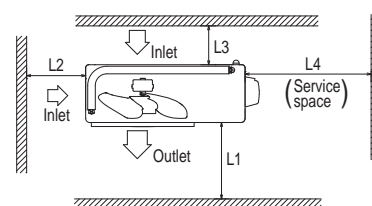
SRC40ZSX-W1, 50ZSX-W2, 60ZSX-W1  
SRC40ZSX-S, 50ZSX-S, 60ZSX-S



| Symbol | Content  |
|--------|--|
| A      | Service valve connection (Gas side) $\phi 12.7(1/2")$ (Flare)    |
| B      | Service valve connection (Liquid side) $\phi 6.35(1/4")$ (Flare) |
| C      | Pipe/cable draw-out hole   |
| D      | Drain discharge hole $\phi 20 \times 5$ places                   |
| E      | Anchor bolt hole M10-12x4 places                                 |

## Notes

- (1) The unit must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.
- (4) Leave 200mm or more space above the unit.
- (5) The wall height on the outlet side should be 1200mm or less.
- (6) The model name label is attached on the front side of the unit.



Minimum installation space

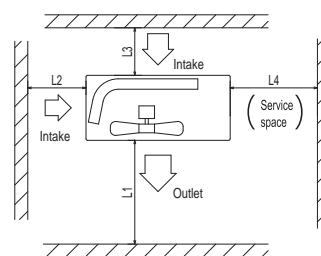
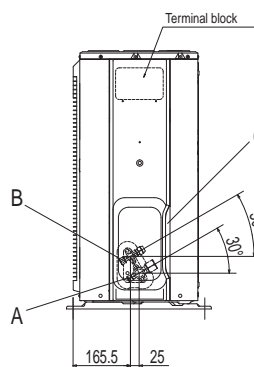
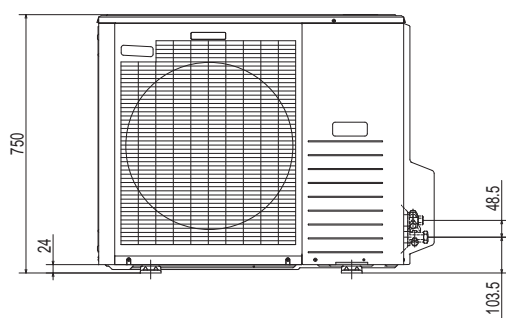
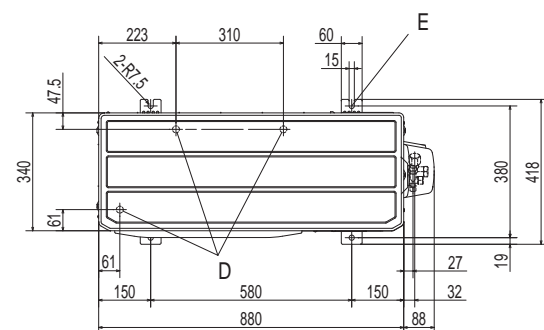
| Examples installation | I    | II   | III  | IV   |
|-----------------------|------|------|------|------|
| Size                  |      |      |      |      |
| L1                    | Open | 280  | 280  | 180  |
| L2                    | 100  | 75   | Open | Open |
| L3                    | 100  | 80   | 80   | 80   |
| L4                    | 250  | Open | 250  | Open |

FDC71VNX-W  
FDC71VNX

| Symbol | Content   |
|--------|---|
| A      | Service valve connection (gas side) $\phi 15.88 (5/8")$ (Flare)   |
| B      | Service valve connection (liquid side) $\phi 9.52 (3/8")$ (Flare) |
| C      | Pipe/cable draw-out hole  |
| D      | Drain discharge hole $\phi 20 \times 3$ places                    |
| E      | Anchor bolt hole M10 x 4 places                                   |

## Notes

- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave 1m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the units height.
- (6) The model name label is attached on the lower right corner of the front panel.

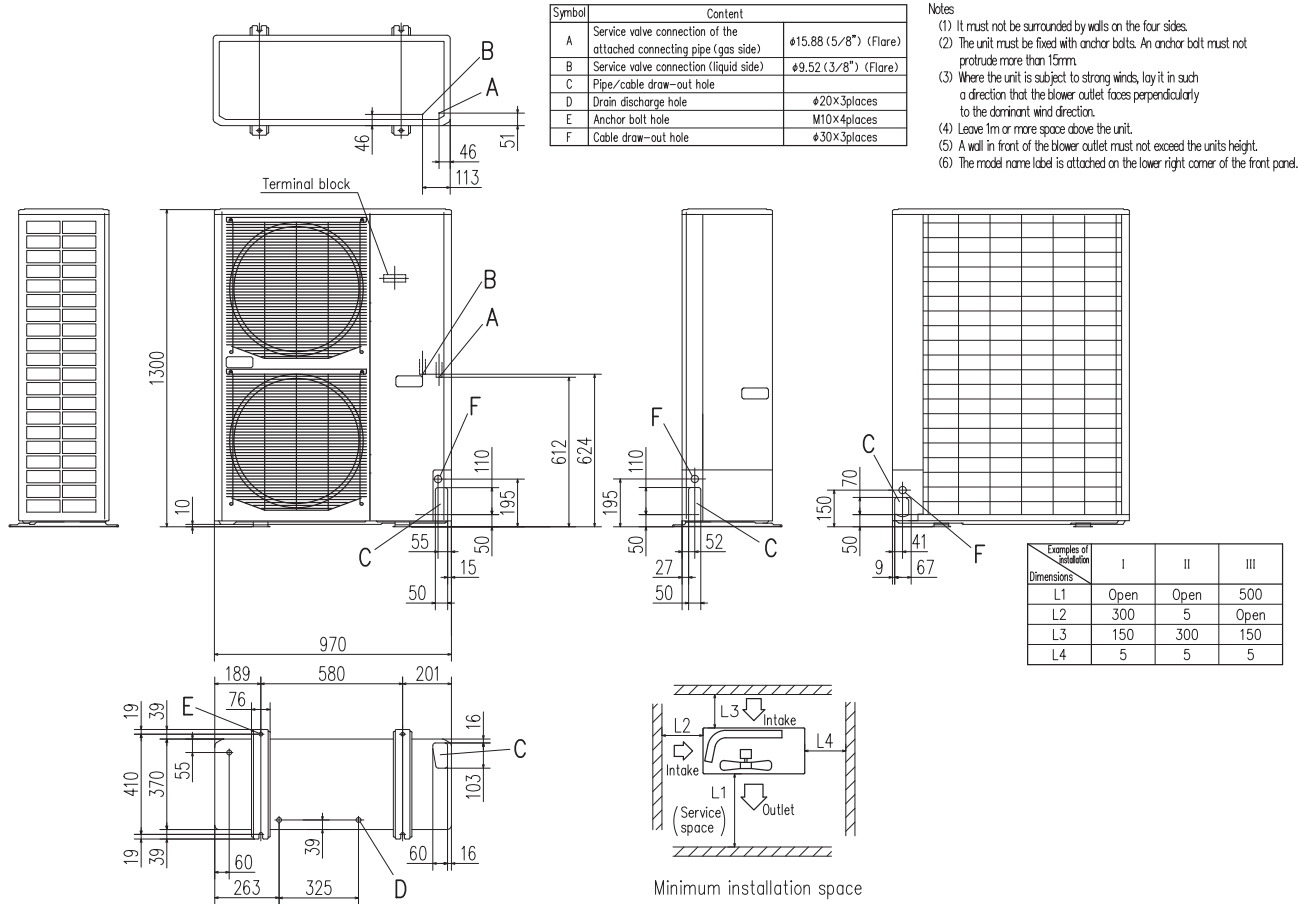


Minimum installation space

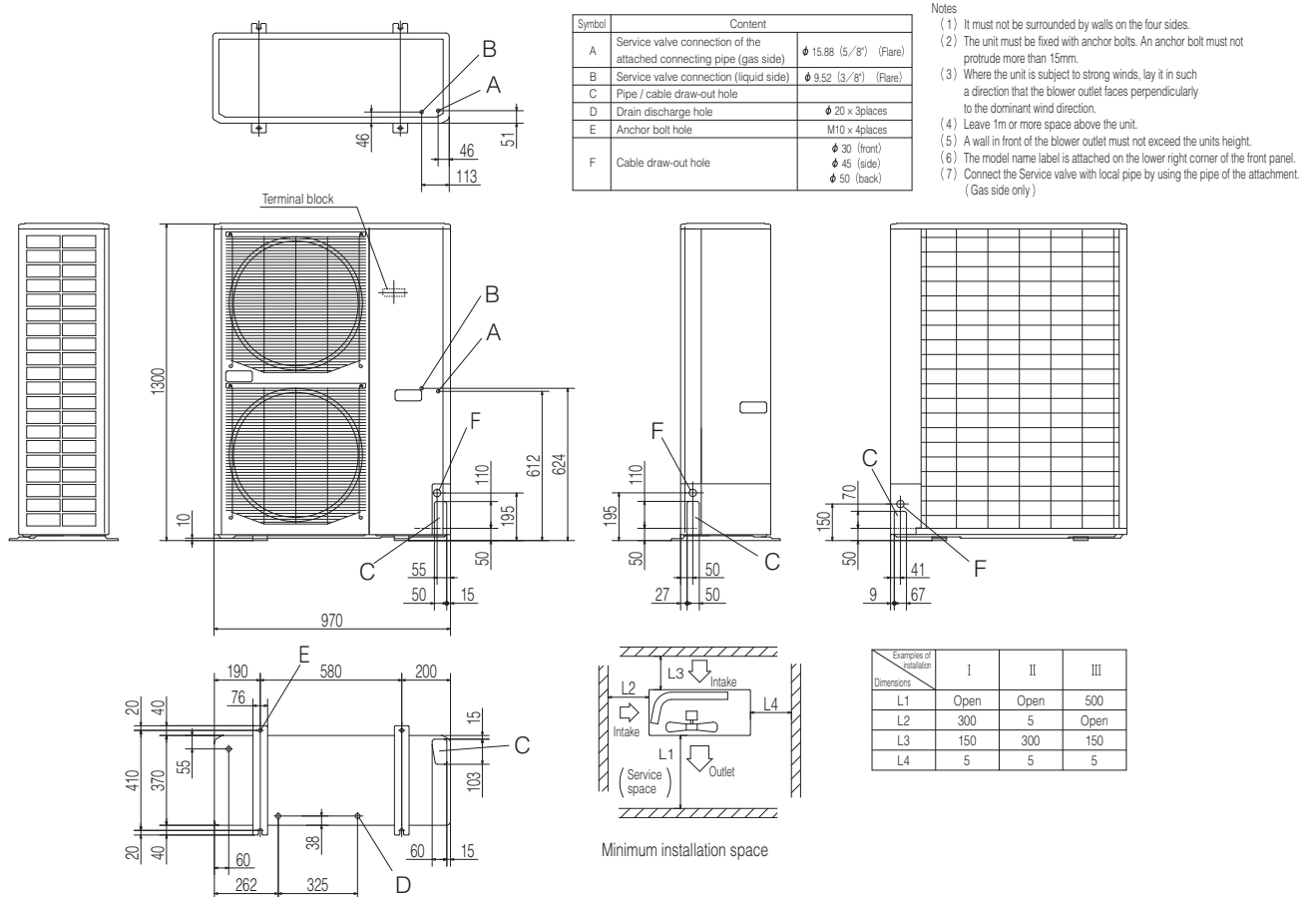
| Examples of installation | I    | II   | III  |
|--------------------------|------|------|------|
| Dimensions               |      |      |      |
| L1                       | Open | Open | 500  |
| L2                       | 300  | 250  | Open |
| L3                       | 100  | 150  | 100  |
| L4                       | 250  | 250  | 250  |

# Outdoor Unit Dimensions (Unit:mm)

FDC100VNX-W, 125VNX-W, 140VNX-W, 100VSX-W, 125VSX-W, 140VSX-W

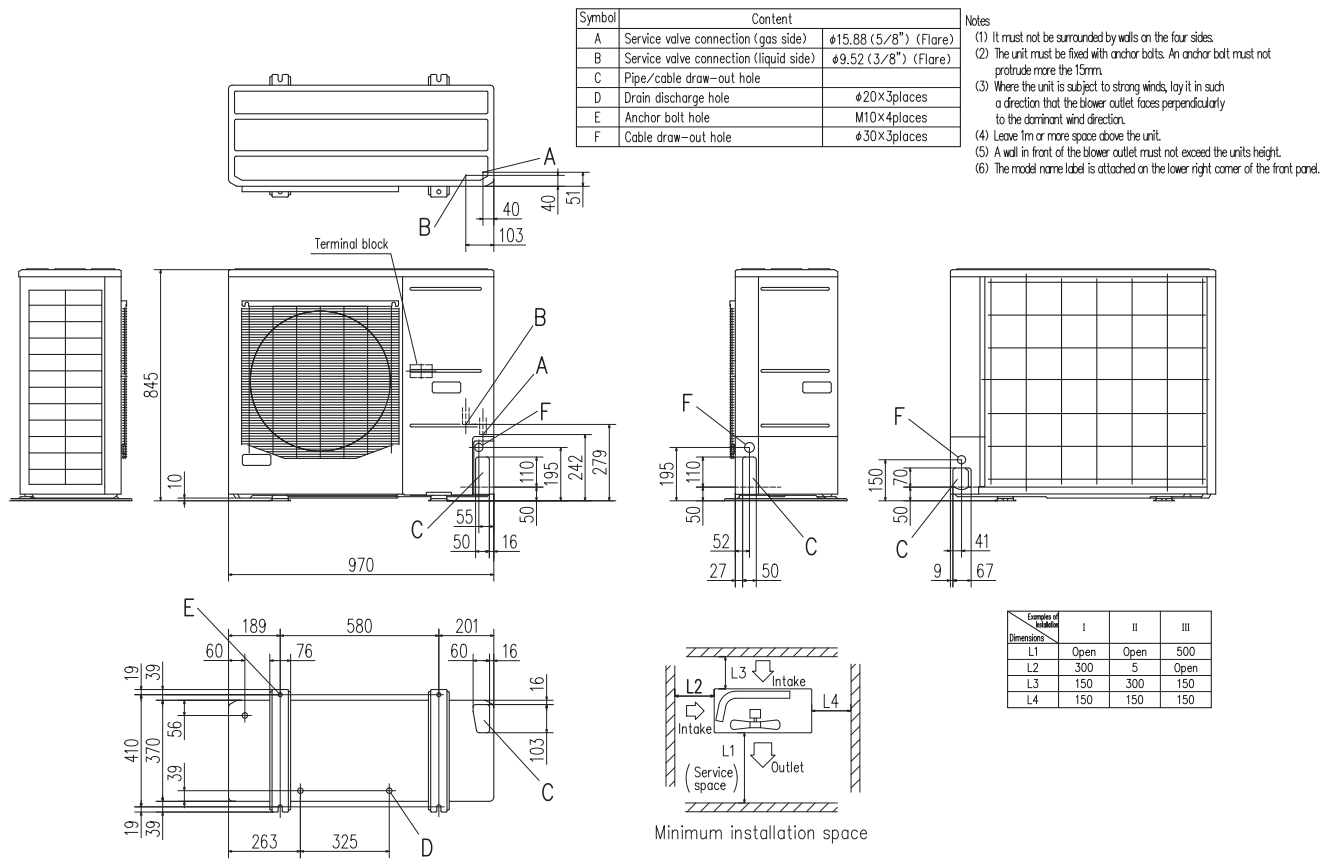


FDC100VNX, 125VNX, 140VNX, 100VSX, 125VSX, 140VSX

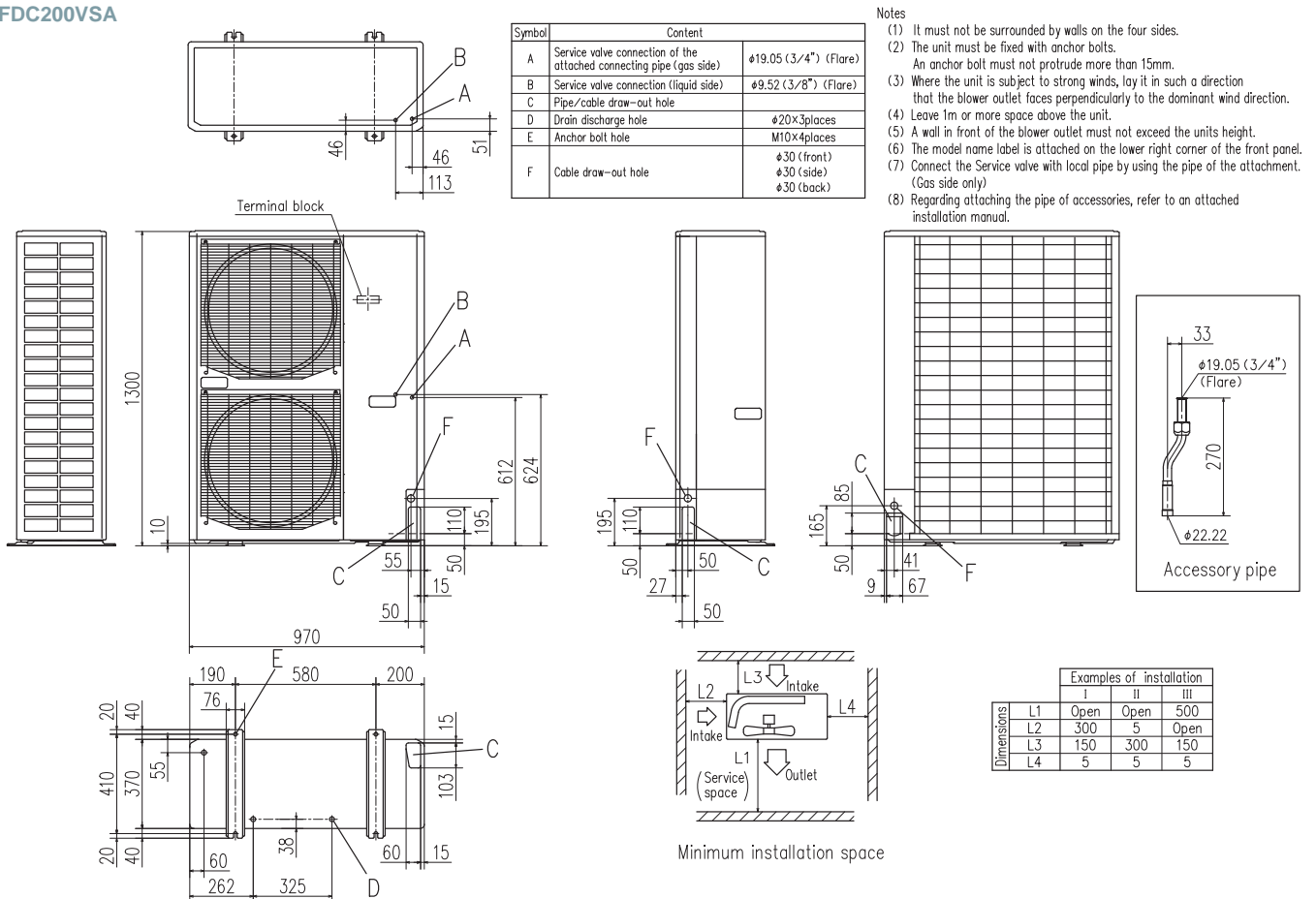




**FDC100VNA-W, 125VNA-W, 140VNA-W, 100VSA-W, 125VSA-W, 140VSA-W**  
**FDC100VNA, 125VNA, 140VNA, 100VSA, 125VSA, 140VSA**

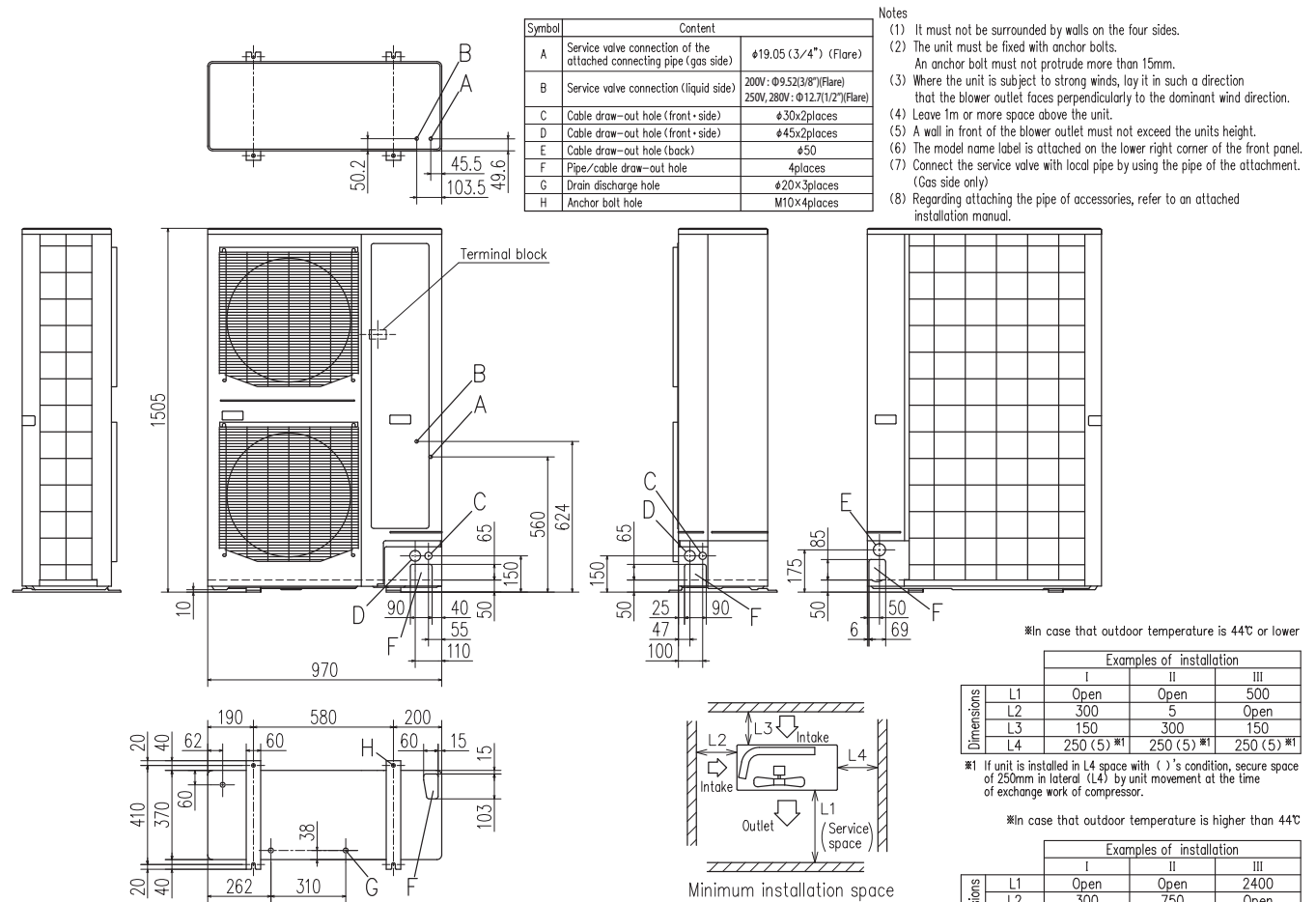


**FDC200VSA**

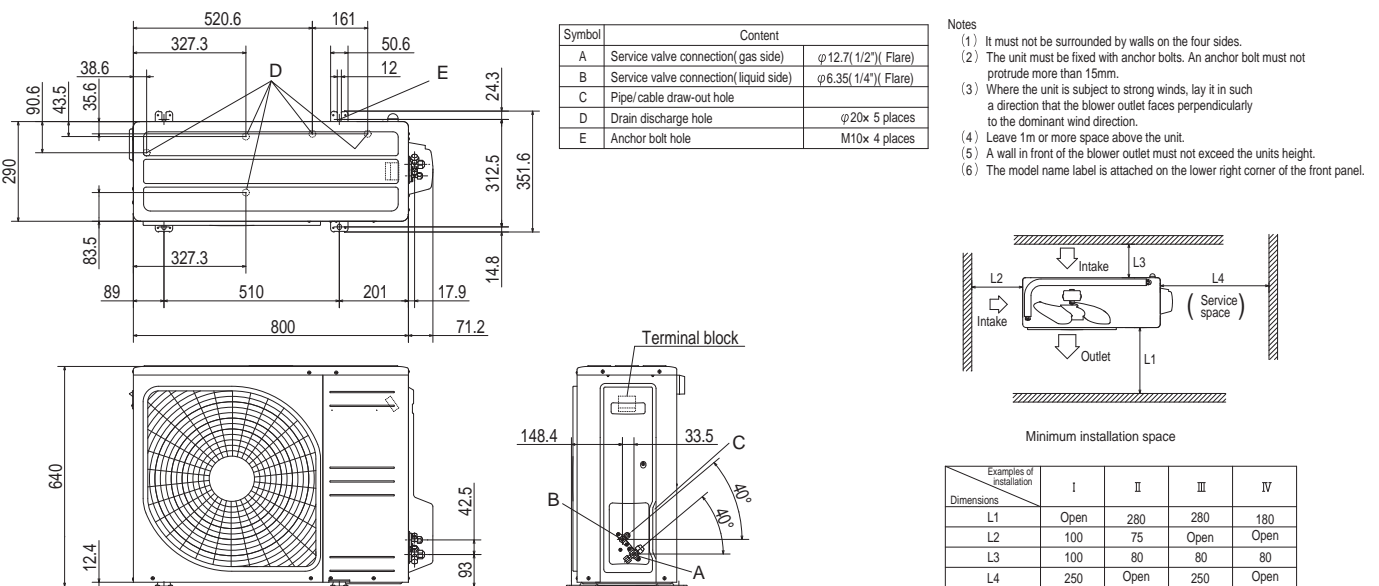


# Outdoor Unit Dimensions (Unit:mm)

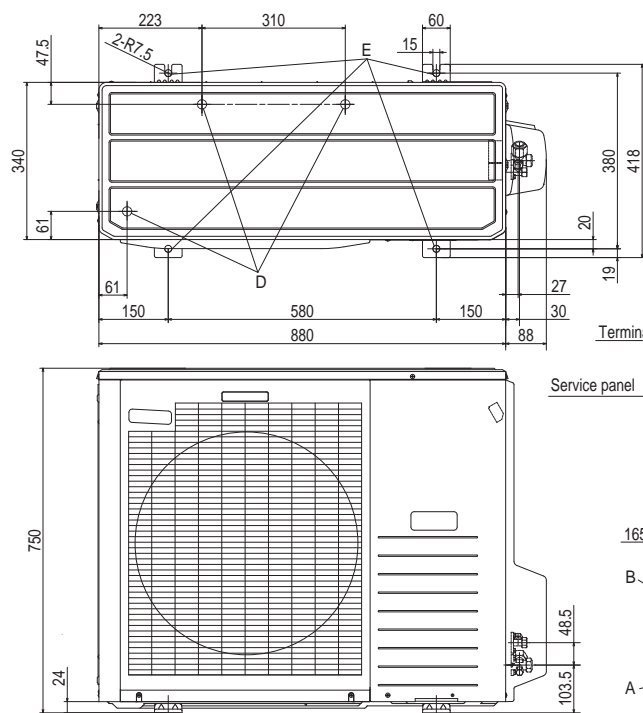
FDC200VSA-W, 250VSA-W, FDC280VSA-W  
FDC250VSA



FDC71VNP-W  
FDC71VNP

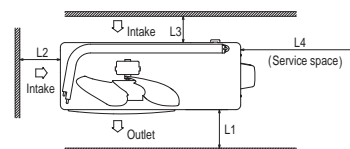


FDC90VNP-W, 100VNP-W  
FDC90VNP1



## Notes

- (1) It must not be surrounded by walls on four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subjected to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave 1m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the unit's height.
- (6) The model name label is attached on the lower right corner of the front panel.

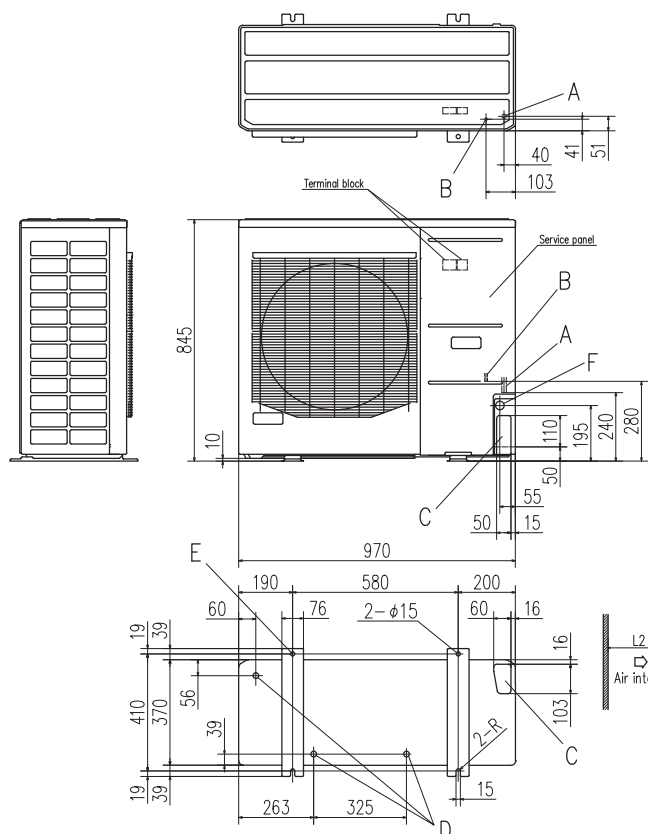


### Minimum installation space

| Examples of installation<br>Dimensions | I    | II   | III  |
|--|------|------|------|
| L1                                     | Open | Open | 500  |
| L2                                     | 300  | 250  | Open |
| L3                                     | 100  | 150  | 100  |
| L4                                     | 250  | 250  | 250  |

| Symbol | Content                               |                                   |
|--------|---------------------------------------|-----------------------------------|
| A      | Service valve connection(gas side)    | $\varnothing$ 15.88(5/8") (Flare) |
| B      | Service valve connection(liquid side) | $\varnothing$ 6.35(1/4") (Flare)  |
| C      | Pipe / cable draw-out hole            |                                   |
| D      | Drain discharge hole                  | $\varnothing$ 20 x 3 places       |
| E      | Anchor bolt hole                      | M10 x 4 places                    |

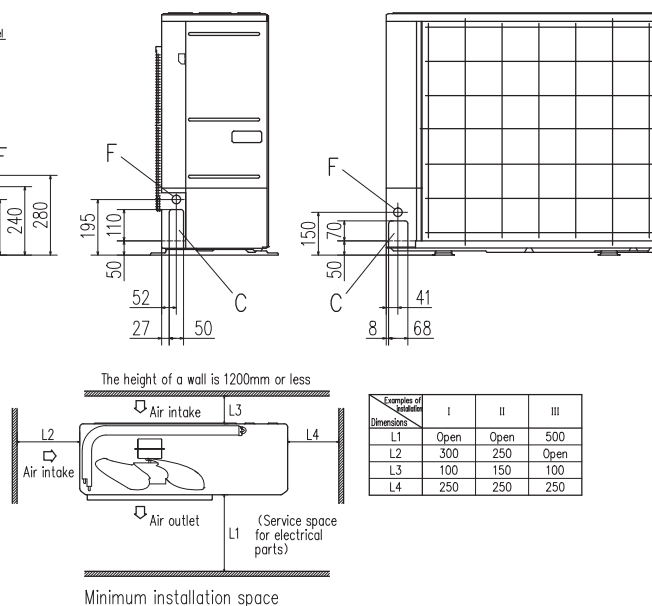
FDC125VNP-W  
FDC100VNP



| Symbol | Content   |
|--------|---|
| A      | Service valve connection (gas side) $\phi 15.88$ (5/8") (Flare)   |
| B      | Service valve connection (liquid side) $\phi 9.52$ (3/8") (Flare) |
| C      | Pipe/cable draw-out hole  |
| D      | Drain discharge hole $\phi 20 \times 3$ places                    |
| E      | Anchor bolt hole $M10 \times 4$ places                            |
| F      | Cable draw-out hole $\phi 30 \times 3$ places                     |

## Notes

- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet face is perpendicular to the dominant wind direction.
- (4) Leave 1m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the units height.
- (6) The model name label is attached on the service panel.



Minimum installation space

| Examples of<br>Installation<br>Dimensions | I    | II   | III  |
|---|------|------|------|
| L1  | Open | Open | 500  |
| L2  | 300  | 250  | Open |
| L3  | 100  | 150  | 100  |
| L4  | 250  | 250  | 250  |

# Control Systems

## Remote Control line up

| wired | indoor unit | remote control  | wireless | indoor unit | remote control               | indoor unit  | remote control |
|-------|-------------|-----------------|----------|-------------|------------------------------|--------------|----------------|
|       | All models  | RC-EX3A         |          | FDT         | RCN-T-5BW-E2<br>RCN-T-5BB-E2 | FDE          | RCN-E-E3       |
|       |             | RC-E5<br>RCH-E3 |          | FDTC        | RCN-TC-5AW-E3                | FDU,FDUM,PDF | RCN-KIT4-E2    |

### Wired remote control

option

## RC-EX3A

Intuitive touch controller with Liquid Crystal Display

### User friendly

- LCD panel with light tap operation introduced as the industry's first
- Simple interface with only three buttons

#### Operation mode setting screen



The desired operation mode can be selected by simply tapping this button.



### Easy view

- Big LCD with 3.8 inch full dot display
- Back light function
- Multi language display (12 languages)

#### Setting temperature screen



You can select the temperature as desired by tapping button.

### High power operation

- The highest capacity operation (Max 15 minutes)
- Increasing compressor speed
- Increasing air flow volume

### Run / Stop

### Energy-saving operation

- Changes set temperature. At 28°C in cooling mode and 22°C in heating mode, 25°C in auto mode.
- Operation correction by outdoor temperature

## Main functions

|                 | Function name                                       | Description   |
|-----------------|---|---|
| Economy & Timer | <b>Energy-saving operation</b>                      | Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.                              |
|                 | <b>Sleep timer</b>                                  | Set the time period from start to stop of operation. The selectable range of setting time is from 30 to 240 minutes (at 10-minute intervals).             |
|                 | <b>Set temperature auto return</b>                  | The temperature automatically returns to the previously set temperature.  |
|                 | <b>Set ON timer by hour</b>                         | When the set time elapses, the air conditioner starts.  |
|                 | <b>Set OFF timer by hour</b>                        | When the set time elapses, the air conditioner stops.   |
|                 | <b>Set ON timer by clock</b>                        | The air conditioner starts at the set time.   |
|                 | <b>Set OFF timer by clock</b>                       | The air conditioner stops at the set time.  |
|                 | <b>Weekly timer</b>                                 | On or Off timer can be set on a weekly basis.   |
|                 | <b>Peak-cut timer</b>                               | Capacity control can be set by using peak cut function on RC-EX3A for better energy saving. Five-step capacity control is available.                      |
|                 | <b>Home leave operation</b>                         | When the unit is not used for a long period of time, the room temperature is maintained at a moderate level, avoiding extremely hot or cool temperatures. |
| Comfort         | <b>Big LCD &amp; Touch screen panel</b>             | Large 3.8 inch screen has resulted in improved visibility and operability.  |
|                 | <b>Easy modification of individual flap control</b> | User can visually confirm and set the direction of louvers using the visual display on the remote control.  |
|                 | <b>Automatic fan speed *1</b>                       | The micro-computer automatically adjusts the airflow effectively to follow the changes of return air temperature.   |
|                 | <b>Temp increment setting</b>                       | Temperature increment for the change of the set temp can be changed.  |
|                 | <b>Silent mode</b>                                  | Set the period of time to operate the Outdoor unit with prioritizing the quietness.   |

\*1 Cannot be used when a centralized control remote is connected.

|             | Function name                                     | Description  |
|-------------|---|--|
| Convenience | <b>Function switch *1</b>                         | The function switch allows user to select and set two functions among available functions .  |
|             | <b>Favourite setting *1</b>                       | Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite setting.        |
|             | <b>Adjusting Brightness of the operation lamp</b> | The brightness of the background light can be adjusted by 10 stages.   |
|             | <b>LCD contrast setting</b>                       | This function allows user to adjust LCD display contrast.  |
|             | <b>High power operation</b>                       | High Power Mode increases the unit operating ability for 15 minutes to quickly adjust the room temperature to a comfortable level. |
|             | <b>Back light setting</b>                         | This convenient function allows user to see controls under low light conditions.   |
|             | <b>Administrator settings</b>                     | This function only allows specific individuals to operate the unit.  |
|             | <b>Setting temp range</b>                         | Limited range of setting temperature in the heating or the cooling operation can be selected.                                      |
|             | <b>External Input / Output Function</b>           | The external input/output of indoor unit by remote controller can set input/output based on user needs.                            |
|             | <b>Select the language</b>                        | Set the language to be displayed on the remote control.  |
| Service     | <b>USB connection (mini-B)</b>                    | This function allows batch input of schedule timer settings and other settings involving a large amount of data.                   |
|             | <b>Error code display</b>                         | This function allows user to check information displayed when abnormal function of the unit occurs.                                |
|             | <b>Operation data display</b>                     | Displays various types of air conditioner operation data in real time.   |
|             | <b>Contact company display</b>                    | Address of the service contact is displayed.   |
|             | <b>Filter sign</b>                                | Announces the due time for cleaning of the air filter.   |
|             | <b>Static pressure adjustment</b>                 | Allows user to adjust duct static pressure using the remote control.   |
|             | <b>Backup Control</b>                             | Allows for rotation control, fault backup control, and capacity backup control.  |

### Wired remote control

option

## RC-E5

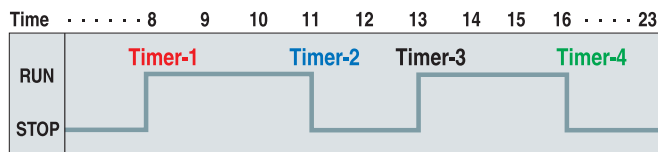


The RC-E5 control enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

### Weekly timer function as standard

RC-E5 provides (as a standard feature) a weekly timer, which allows one-week operation schedules to be registered. A user can specify up to four times a day to start/stop the air conditioner. (Temperature setting is also possible with the timer).

### Timer operation



### Run hour meters to facilitate maintenance checking

RC-E5 stores operation data when an anomaly occurs and indicates the error on the LCD. It also displays cumulative operation hours of the air conditioner and compressor since commissioning.

### Room temperature controlled by the remote control sensor

The temperature sensor is housed in the top section of the remote control unit. This arrangement has improved the sensitivity of the remote control unit's sensor, which permits more finely controlled air conditioning.



### Adjustable set temperature ranges

RC-E5 allows the upper and lower limits of a set temperature range to be specified separately. By adjusting a set temperature range, you can ensure energy saving air conditioning by avoiding excessive cooling or heating.

| Changeable range |  |
|------------------|--|
| Upper limit      | 20~30°C<br>(effective for heating operation)     |
| Lower limit      | 18~26°C<br>(effective for non-heating operation) |

### Simple remote control

option

## RCH-E3 (wired)



Designed specially for hotel rooms, the controller's buttons are limited only to the minimum required functions such as ON/OFF, mode, temperature setting and fan speed. It is really simple and easy to use.

\* RCH-E3 is not applicable to the Individual flap control system. When RCH-E3 is used, the fan has 3 speed settings (Hi-Me-Lo) only.

### Up to 16 units

It can control up to 16 indoor units, by pressing the AIR CON No. button.

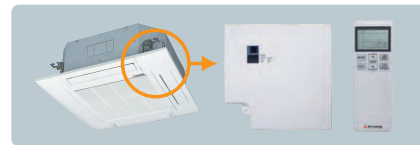
### AUTO restart

This function allows starting the air conditioner automatically when power supply is restored after power failure or by turning on the power switch.

### Wireless remote control

option

## RCN-T-5BW-E2 RCN-T-5BB-E2



For wireless control simply insert the infrared receiver kit on a corner of the panel.

\* Wireless remote control is not applicable to the Individual flap control system.

## RCN-TC-5AW-E3



## RCN-KIT4-E2



## RCN-E-E3



### Thermistor

option

## SC-THB-E3

In case the sensor integrated in the indoor unit or in the remote controller is unable to sense the room temperature correctly, or an individual controller in each room is not required but a temperature sensor is (as when a central control system is in place), install SC-THB-E3 in an adequate location in the room.





# Air Handling Unit Interface

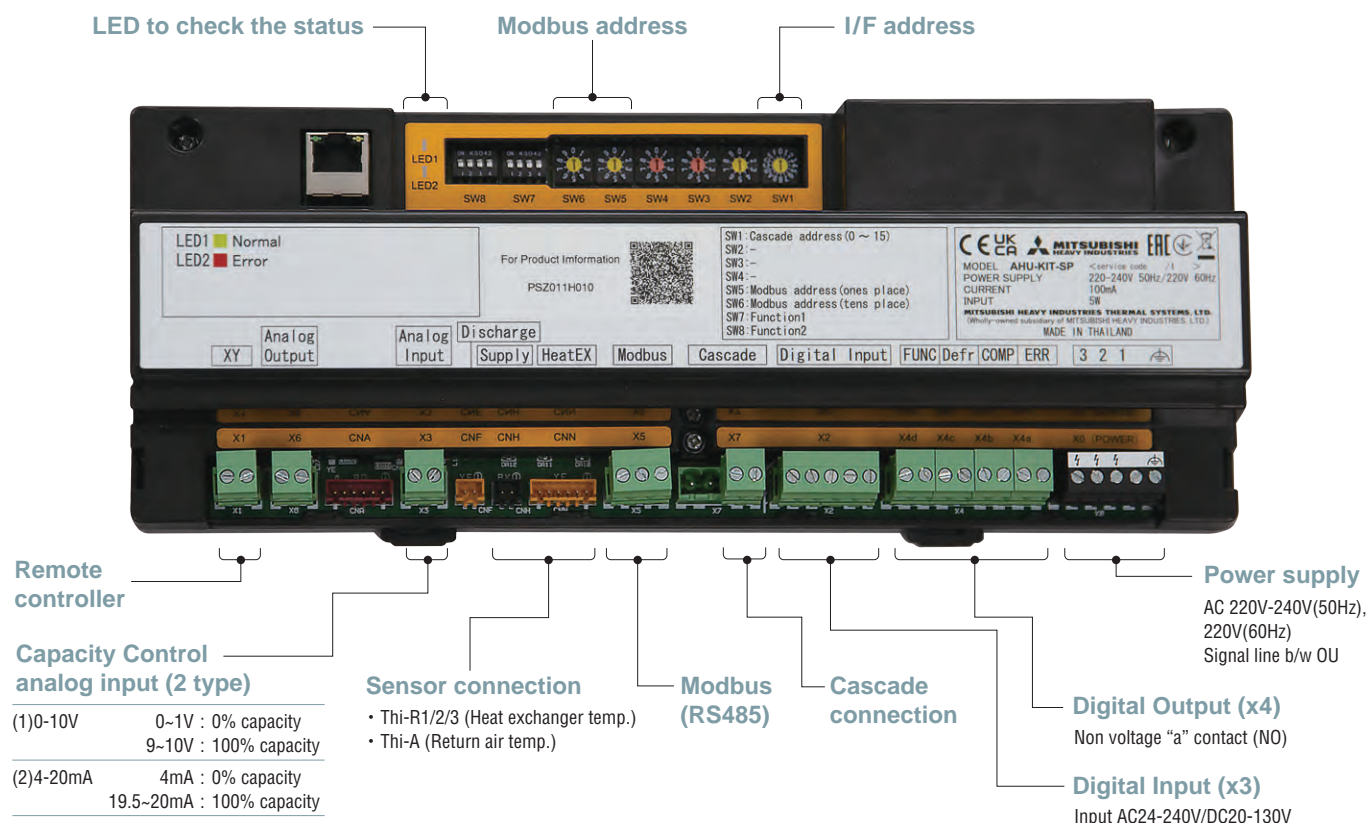
## AHU-KIT-SP

The AHU controller will function as an interface between MHI's PAC outdoor units and locally produced heat exchanger for Air Handling Unit (AHU).

- Compact AHU interface for MHI's Split system
- 0-10V/4-20mA capacity control
- Various external I/O
- Modbus connection
- Cascade control
- Set temperature control



### Main components



### Main functions

| Model              |                   | AHU-KIT-SP                    |
|--------------------|-------------------|-------------------------------|
| Size               |                   | W290 x H109.5x D57mm          |
| External Input     | Capacity control  | ○<br>0-10V DC, 4-20mA(0-100%) |
|                    | Cooling / Heating | ○                             |
|                    | Operation On/Off  | ○                             |
|                    | Emergency stop    | ○                             |
| External Output    | Comp On/Off       | ○                             |
|                    | Run/Stop          | ○                             |
|                    | Defrost On/Off    | ○                             |
|                    | Error             | ○                             |
| Modbus (RS-485)    |                   | ○                             |
| Cascade connection |                   | ○ Max 16                      |
| Standard           |                   | EN60335-1                     |

### Compatibility PAC & RAC outdoor unit will be in scope.

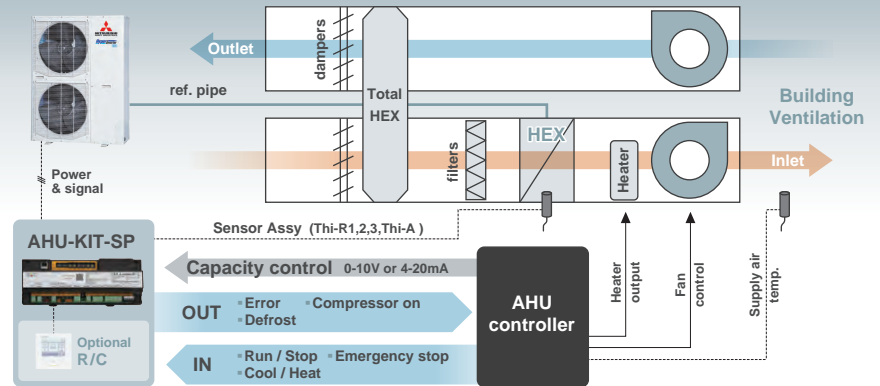
| Capacity | R32                     | R410A               |
|----------|-------------------------|---------------------|
| Small    | SRC40/50/60ZSX-W1,W2,WA | SRC40/50/60ZSX-S,SA |
|          | FDC71VNX-W              | FDC71VNX            |
| Medium   | FDC100/125/140VNA-W     | FDC100/125/140VNA   |
|          | FDC100/125/140VSA-W     | FDC100/125/140VSA   |
|          | FDC100/125/140VNX-W     | FDC100/125/140VNX   |
|          | FDC100/125/140VSX-W     | FDC100/125/140VSX   |
| Large    | FDC200/250/280VSA-W     | FDC200/250VSA       |

## System Examples &amp; Advantages

**Ex1. General AHU**

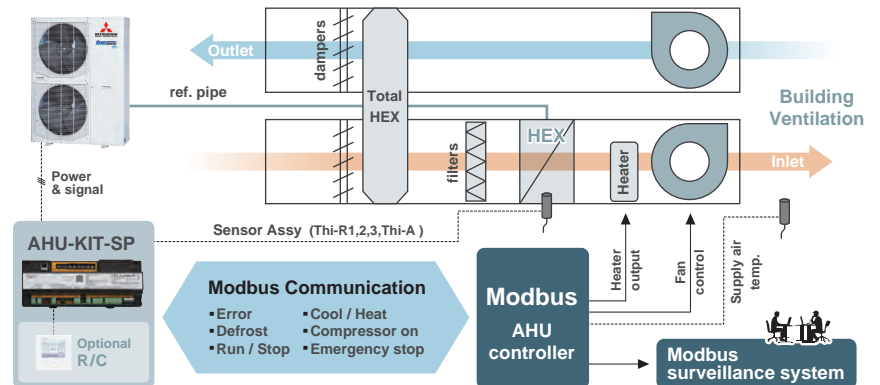
1. 0-10V/4-20mA capacity control
2. Various I/O for better control
3. R/C can be removed

Compatible with market standard AHU controller.  
Provide wide flexibility for AHU solution.

**Ex2. Modbus AHU**

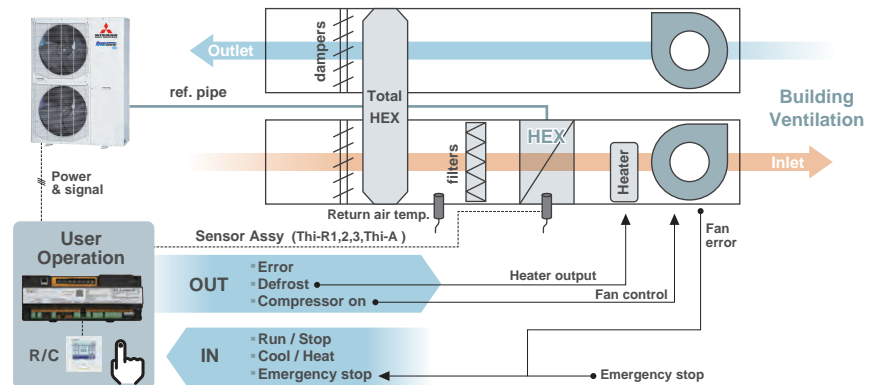
1. Modbus connection
2. Same control as external I/O

BMS connectability without any extra device.

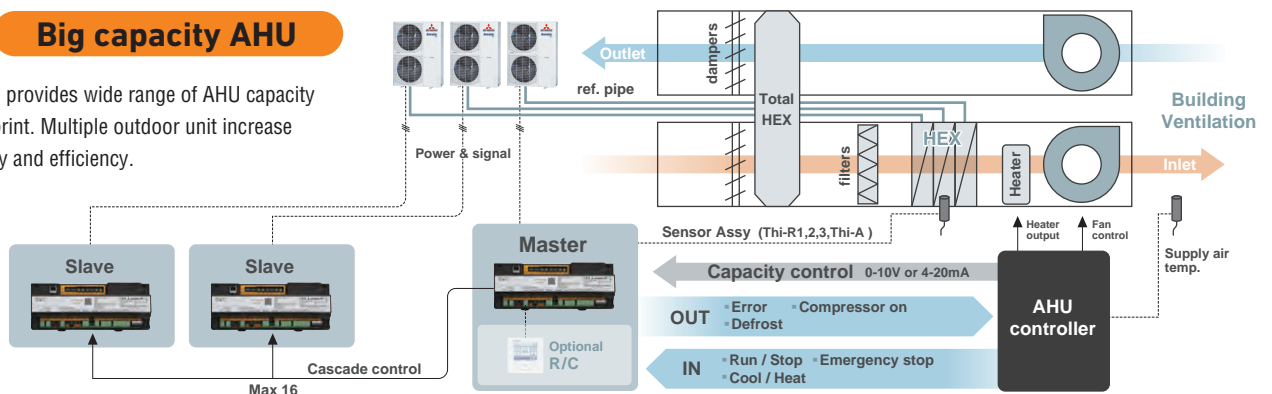
**Ex3. Simple AHU**

1. Remote controller connection
2. Adequate external input/output

Simple stand-alone AHU control by set temperature control from RC.

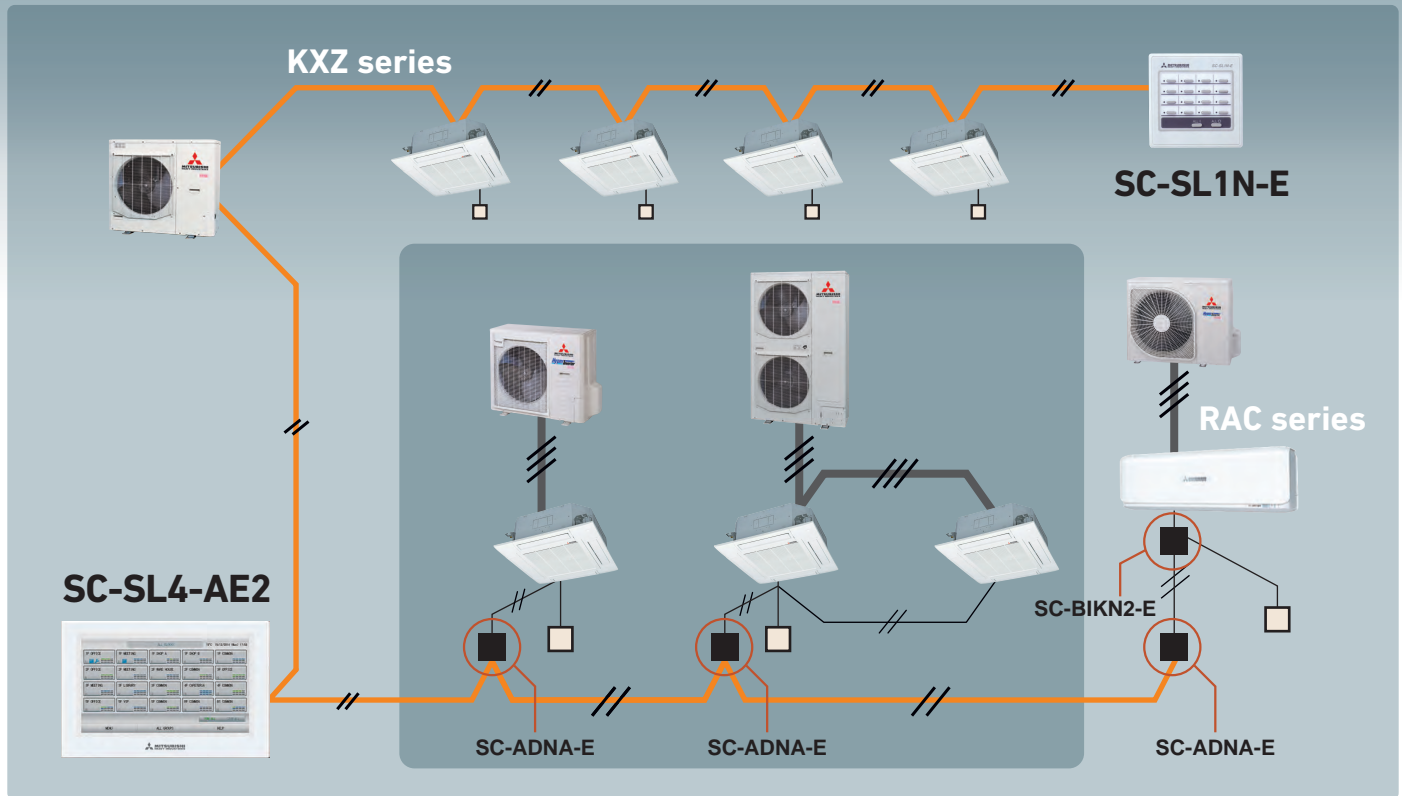
**Ex4. Big capacity AHU**

Cascade control provides wide range of AHU capacity with small footprint. Multiple outdoor unit increase system reliability and efficiency.



# SUPERLINK II

## - Control Systems -

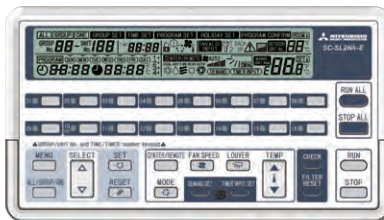


## Central Control



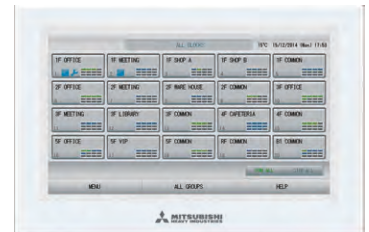
### SC-SL1N-E

Start/stop control of up to 16 indoor units is possible either individually or collectively. With simple operations, you can achieve centralized control.



### SC-SL2NA-E

Centralized control of up to 64 indoor units. Including weekly timer function as standard.



New

### SC-SL4-AE3, BE3

Easy operation thanks to with a large colour LCD and touch panel. Up to 128 indoor units can be controlled. When SUPERLINK-II systems are connected.

## Building Management Systems

Production by order

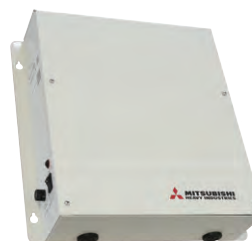


Users can manage up to 1024 units by connecting the four devices !!

### SC-WBGW256\*

Web gateway  
BACnet gateway

SC-WBGW256, up to 256 cells (some cells can have two or more indoor units and total number of indoor units can be up to 256 units) are controlled from the Internet Explorer and centrally from Building Management Systems.



### SC-LGWNB\*

LonWorks gateway

Up to 96 indoor units can be integrated to a central control point via the building management system network.

\* Additional engineering service is required. Please consult your dealer when using these system.

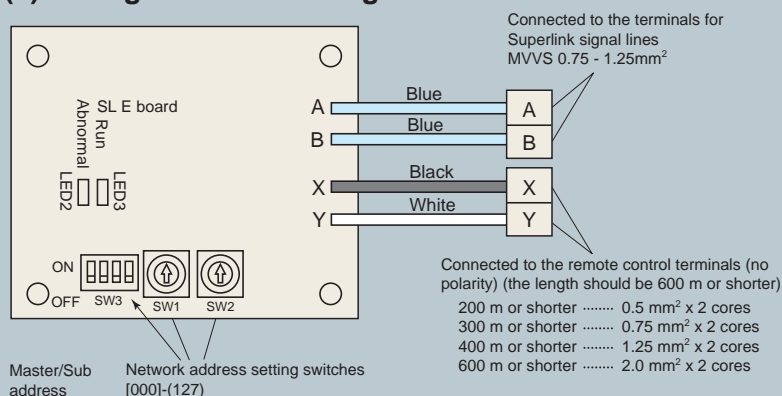
# SUPERLINK E BOARD (SC-ADNA-E)

This board is used when conducting control of the single package (wired remote control unit) 1-type series using a network option (SC-SL1N-E, SC-SL2NA-E, etc).

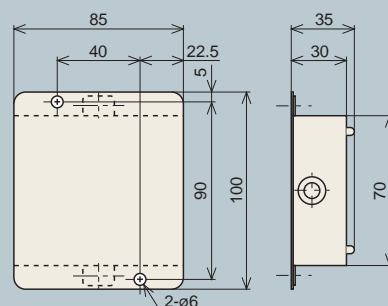
## (1) Functions

- (a) Transmits the settings from the network option to the indoor units.
- (b) Returns the priority indoor unit data in response to a data request from the network option.
- (c) Inspects the error status of connected indoor units and transmits the inspection codes to the network option.
- (d) A maximum of 16 units can be controlled (if in the same operation mode).

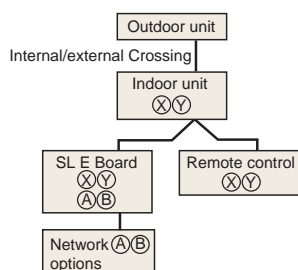
## (2) Wiring connection diagram



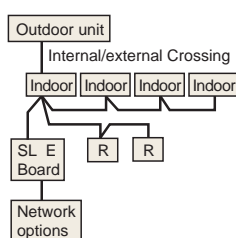
## (3) Metal box dimension (unit:mm)



### Basic Connections

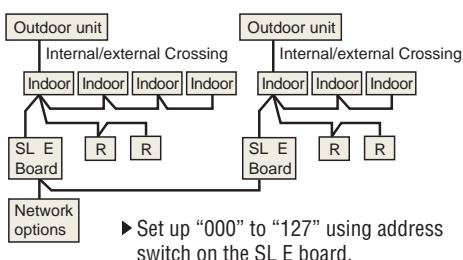


### Plural Controls by Multiple Remote Controls. Mixture of Multiple Units

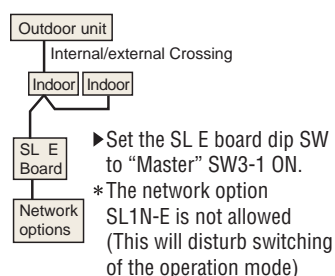


- Transmit the information of plural "Master" units to the network.
- Transmit the abnormalities of the "Slave" units to the network.
- ▶ Setting the plural "Master/Slave" units with the dip SW of the printed circuit board.
- ▶ Setting the "Master/Slave" remote controls with the dip SW of the remote control board.

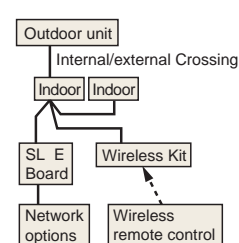
### Plural Controls by Multiple Remote Controls. Mixture of Multiple Units



### Without Remote Control



### Wireless Kit

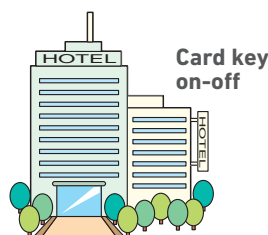


## External switch connection CNT, CNTA

All indoor units are equipped with an additional connection point CnT to connect indoor units to an external ON/OFF switch; e.g. time clock, fire alarm, etc.



Remote surveillance system



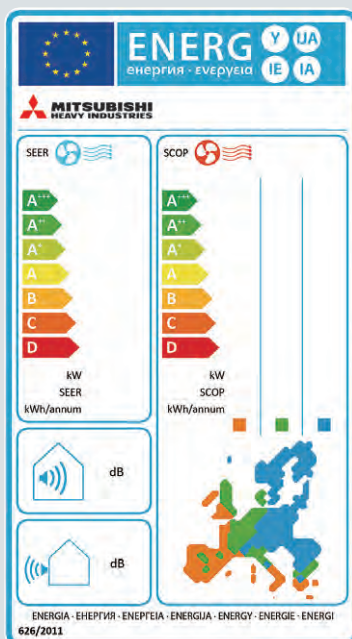
Card key on-off

# Energy Efficient and Environmentally Conscious

Several radical design changes and engineering developments have brought about a vast improvement in energy efficiency and environmental protection.

## ENERGY LABEL

SEER and SCOP is defined in European regulations listed below.



No.626/2011 of 4 May 2011:  
energy labeling of air-conditioners  
(below cooling capacity 12kW).

No.206/2012 of 6 March 2012:  
requirement for air-conditioners and comfort fans.

Seasonal efficiency is the new way of rating the true efficiency of heating and cooling products over an entire year.

Set by the EU's new regulation implementing Eco-Design Directive for Energy related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

The new Seasonal Efficiency rating system that must be used for heating and cooling by all manufacturers are;

**SEER - Seasonal Efficiency Ratio (value in cooling)**  
**SCOP - Seasonal Coefficient of Performance (value in heating)**

The new rating system will indicate the true efficiency of the energy using product at specified condition.

## Employment of lead-free solder

### Adapted to RoHS directive

#### RoHS:Restriction of Hazardous substances

In order to avoid the release of hazardous substances into the environments, all models have utilised lead-free solder application. It has been considered to be difficult to use lead-free solder for practical applications because it requires higher solder temperatures at assembly, which can jeopardize reliability. However our PbF soldering method can produce a higher quality lead-free printed circuit board.

## Employment of R32 R410A

All models use refrigerant R32 or R410A characterized by the ozone depletion coefficient being 0.

## Excellent Energy Saving

High performance and excellent energy savings are achieved at the same time by heat exchanger's increased capacity and employment of high efficiency DC motor.

| Indoor unit                                      |  | FDT40VH                      | FDT50VH     | FDT60VH     | FDT71VH    | FDT100VH    | FDT100VH    | FDT40VHx2  | FDT50VHx2   |
|--|--|------------------------------|-------------|-------------|------------|-------------|-------------|------------|-------------|
| Outdoor unit                                     |  | SRC40ZSX-W1                  | SRC50ZSX-W2 | SRC60ZSX-W1 | FDC71VNX-W | FDC100VNX-W | FDC100VSX-W | FDT71VNX-W | FDC100VNX-W |
| Energy class (cooling/heating)                   |  | A+++/A++                     | A+/A++      | A+++/A++    | A++/A++    | A++/A+      | A++/A+      | A++/A++    | A+/A+       |
| SEER   |  | 8.63                         | 7.93        | 8.74        | 7.60       | 8.00        | 8.00        | 7.60       | 8.24        |
| SCOP (Average climate)                           |  | 4.62                         | 4.63        | 5.00        | 4.61       | 4.44        | 4.44        | 4.66       | 4.24        |
| Pdesign (cooling/heating (@-10°C))               |  | kW                           | 4.0/3.9     | 5.0/4.0     | 5.6/5.2    | 7.1/5.8     | 10.0/11.2   | 7.1/5.8    | 10.0/11.2   |
| Annual electricity consumption (cooling/heating) |  | kWh/a                        | 163/1167    | 221/1210    | 225/1455   | 327/1762    | 438/3534    | 327/1742   | 425/3700    |
| Refrigerant                                      |  | GWP                          | R32/675     |             |            |             |             |            |             |
|  |  | charge kg/TCO <sub>2</sub> E | 1.30/0.878  |             |            | 2.75/1.86   |             | 4.0/2.7    | 2.75/1.86   |
| Designated heating season                        |  | Average                      |             |             |            |             |             |            |             |

| Indoor unit                                      |  | FDT50VHx2                    | FDT40VH    | FDT50VH    | FDT60VH    | FDT71VH  | FDT100VH  | FDT100VH  | FDT40VHx2  |
|--|--|------------------------------|------------|------------|------------|----------|-----------|-----------|------------|
| Outdoor unit                                     |  | FDC100VSX-W                  | SRC40ZSX-S | SRC50ZSX-S | SRC60ZSX-S | FDC71VNX | FDC100VNX | FDC100VSX | FDC71VNX   |
| Energy class (cooling/heating)                   |  | A+/A+                        | A+++/A+    | A++/A++    | A++/A++    | A+/A+    | A+/A+     | A+/A+     | A+/A+      |
| SEER   |  | 8.24                         | 8.51       | 7.82       | 8.26       | 5.72     | 5.90      | 5.90      | 5.77       |
| SCOP (Average climate)                           |  | 4.24                         | 4.47       | 4.61       | 5.00       | 4.34     | 4.32      | 4.32      | 4.34       |
| Pdesign (cooling/heating (@-10°C))               |  | kW                           | 10.0/11.2  | 4.0/3.8    | 5.0/4.1    | 5.6/4.7  | 7.1/5.8   | 10.0/11.2 | 7.1/5.8    |
| Annual electricity consumption (cooling/heating) |  | kWh/a                        | 425/3700   | 165/1192   | 224/1246   | 238/1316 | 435/1873  | 594/3634  | 431/1873   |
| Refrigerant                                      |  | GWP                          | R32/675    | R410A/2088 |            |          |           |           |            |
|  |  | charge kg/TCO <sub>2</sub> E | 4.0/2.7    | 1.5/3.132  |            |          | 1.5/3.132 |           | 2.95/6.160 |
| Designated heating season                        |  | Average                      |            |            |            |          |           |           |            |

| Indoor unit                                      |  | FDT50VHx2                    | FDT50VHx2  | FDT100VH    | FDT100VH    | FDT50VHx2   | FDT50VHx2   | FDT100VH   | FDT100VH  |          |
|--|--|------------------------------|------------|-------------|-------------|-------------|-------------|------------|-----------|----------|
| Outdoor unit                                     |  | FDC100VNX                    | FDC100VSX  | FDC100VNA-W | FDC100VSA-W | FDC100VNA-W | FDC100VSA-W | FDC100VNA  | FDC100VSA |          |
| Energy class (cooling/heating)                   |  | A+/A+                        | A+/A+      | A++/A++     | A++/A++     | A++/A+      | A++/A+      | A++/A+     | A++/A+    |          |
| SEER   |  | 5.92                         | 5.92       | 7.13        | 7.13        | 7.41        | 7.41        | 6.78       | 6.78      |          |
| SCOP (Average climate)                           |  | 4.16                         | 4.16       | 4.60        | 4.60        | 4.47        | 4.47        | 4.52       | 4.52      |          |
| Pdesign (cooling/heating (@-10°C))               |  | kW                           | 10.0/11.2  | 10.0/11.2   | 10.0/8.5    | 10.0/8.5    | 10.0/8.5    | 10.0/8.5   | 10.0/8.5  |          |
| Annual electricity consumption (cooling/heating) |  | kWh/a                        | 592/3772   | 592/3772    | 491/2590    | 491/2590    | 473/2665    | 473/2665   | 516/2633  | 516/2633 |
| Refrigerant                                      |  | GWP                          | R410A/2088 |             | R32/675     |             |             | R410A/2088 |           |          |
|  |  | charge kg/TCO <sub>2</sub> E | 4.5/9.396  |             | 3.30/2.228  |             |             | 3.8/7.934  |           |          |
| Designated heating season                        |  | Average                      |            |             |             |             |             |            |           |          |

- Refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.
- SEER/SCOP are based on EN14825:2016 and Commission regulation(EU) No.2016/2281. Temperature conditions for calculating SCOP are based on "Average climate".
- "tonne(s) of CO<sub>2</sub> equivalent" means a quantity of greenhouse gases- expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.



| Indoor unit                                      |  | FDT50VHx2                   | FDT50VHx2  | FDT71VH    | FDT100VH   | FDT100VH    | FDT71VH    | FDT100VH  | FDT100VH  |
|--|--|-----------------------------|------------|------------|------------|-------------|------------|-----------|-----------|
| Outdoor unit                                     |  | FDC100VNA                   | FDC100VSA  | FDC71VNP-W | FDC90VNP-W | FDC100VNP-W | FDC71VNP   | FDC90VNP1 | FDC100VNP |
| Energy class (cooling/heating)                   |  | A++/A+                      | A++/A+     | A++/A+     | A++/A+     | A++/A+      | A++/A+     | A++/A+    | A++/A+    |
| SEER   |  | 6.89                        | 6.89       | 6.34       | 7.10       | 7.08        | 6.14       | 6.78      | 6.78      |
| SCOP (Average climate)                           |  | 4.47                        | 4.47       | 4.38       | 4.56       | 4.53        | 4.27       | 4.12      | 4.53      |
| Pdesign (cooling/heating (@-10°C))               |  | kW                          | 10.0/8.5   | 10.0/8.5   | 7.10/5.70  | 9.0/6.0     | 10.0/6.4   | 7.1/5.7   | 9.0/8.1   |
| Annual electricity consumption (cooling/heating) |  | kWh/a                       | 508/2665   | 508/2665   | 393/1822   | 444/1842    | 495/1977   | 405/1867  | 465/2754  |
| Refrigerant                                      |  | GWP                         | R410A/2088 |            | R32/675    |             | R410A/2088 |           |           |
|  |  | charge kg/CO <sub>2</sub> e | 3.8/7.934  |            | 1.30/0.878 |             | 1.70/1.148 |           | 1.6/3.341 |
| Designated heating season                        |  |                             | Average    |            |            |             |            |           |           |

| Indoor unit                                      |  | FDTC40VH                               | FDTC50VH    | FDTC60VH    | FDTC40VHx2 | FDTC50VHx2  | FDTC50VHx2  | FDTC40VH   | FDTC50VH   |          |
|--|--|--|-------------|-------------|------------|-------------|-------------|------------|------------|----------|
| Outdoor unit                                     |  | SRC40ZSX-W1                            | SRC50ZSX-W2 | SRC60ZSX-W1 | FDC71VNX-W | FDC100VNX-W | FDC100VSX-W | SRC40ZSX-S | SRC50ZSX-S |          |
| Energy class (cooling/heating)                   |  | A++/A+                                 | A++/A+      | A++/A+      | A++/A+     | A++/A+      | A++/A+      | A++/A+     | A++/A+     |          |
| SEER   |  | 6.94                                   | 6.52        | 6.45        | 6.70       | 6.58        | 6.58        | 6.93       | 6.49       |          |
| SCOP (Average climate)                           |  | 4.37                                   | 4.30        | 4.10        | 4.40       | 4.16        | 4.16        | 4.37       | 4.30       |          |
| Pdesign (cooling/heating (@-10°C))               |  | kW                                     | 4.0/4.0     | 5.0/4.3     | 5.6/5.1    | 7.1/6.0     | 10.0/11.2   | 10.0/11.2  | 4.0/4.0    | 5.0/4.3  |
| Annual electricity consumption (cooling/heating) |  | kWh/a                                  | 202/1283    | 269/1401    | 304/1744   | 371/1911    | 532/3772    | 532/3772   | 202/1281   | 270/1402 |
| Refrigerant                                      |  | GWP<br>charge<br>kg/TCO <sub>2</sub> e | R32/675     |             |            |             |             | R410A/2088 |            |          |
|  |  |  | 1.30/0.878  |             | 2.75/1.86  |             | 4.0/2.7     |            | 1.5/3.132  |          |
| Designated heating season                        |  |  | Average     |             |            |             |             |            |            |          |

| Indoor unit                                      |                             | FDT60VH    | FDT40VHx2  | FDT50VHx2 | FDT50VHx2 | FDT50VHx2   | FDT50VHx2   | FDT50VHx2  | FDT50VHx2 |
|--|-----------------------------|------------|------------|-----------|-----------|-------------|-------------|------------|-----------|
| Outdoor unit                                     |                             | SRC60ZSX-S | FDC71VNX   | FDC100VNX | FDC100VSX | FDC100VNA-W | FDC100VSA-W | FDC100VNA  | FDC100VSA |
| Energy class (cooling/heating)                   |                             | A++/A+     | A/A+       | A/A       | A/A       | A++/A+      | A++/A+      | A+/A+      | A+/A+     |
| SEER   |                             | 6.39       | 5.50       | 5.56      | 5.56      | 6.17        | 6.17        | 6.00       | 6.00      |
| SCOP (Average climate)                           |                             | 4.09       | 4.05       | 3.87      | 3.87      | 4.38        | 4.38        | 4.38       | 4.38      |
| Pdesign (cooling/heating (@-10°C))               | kW                          | 5.6/5.4    | 7.1/6.0    | 10.0/10.8 | 10.0/10.8 | 10.0/8.5    | 10.0/8.5    | 10.0/8.4   | 10.0/8.4  |
| Annual electricity consumption (cooling/heating) | kWh/a                       | 307/1848   | 453/2077   | 630/3910  | 630/3910  | 567/2715    |             | 584/2682   | 584/2682  |
| Refrigerant                                      | GWP                         | R410A/2088 |            |           |           | R32/675     |             | R410A/2088 |           |
|  | charge kg/CO <sub>2</sub> e | 1.5/3.132  | 2.95/6.160 | 4.5/9.396 |           | 3.3/2.228   |             | 3.8/7.934  |           |
| Designated heating season                        |                             | Average    |            |           |           |             |             |            |           |

| Indoor unit                                      |                             | FDU71VH    | FDU100VH    | FDU100VH    | FDU71VH    | FDU100VH  | FDU100VH  | FDU100VH    | FDU100VH    |
|--|-----------------------------|------------|-------------|-------------|------------|-----------|-----------|-------------|-------------|
| Outdoor unit                                     |                             | FDC71VNX-W | FDC100VNX-W | FDC100VSX-W | FDC71VNX   | FDC100VNX | FDC100VSX | FDC100VNA-W | FDC100VSA-W |
| Energy class (cooling/heating)                   |                             | A++/A+     | A++/A+      | A++/A+      | A/A        | A/A+      | A/A+      | A++/A+      | A++/A+      |
| SEER   |                             | 6.89       | 6.29        | 6.29        | 5.24       | 5.22      | 5.19      | 6.11        | 6.11        |
| SCOP (Average climate)                           |                             | 4.47       | 4.13        | 4.13        | 3.90       | 4.10      | 4.10      | 4.19        | 4.19        |
| Pdesign (cooling/heating (@-10°C))               | kW                          | 7.1/6.0    | 10.0/11.2   | 10.0/11.2   | 7.1/7.0    | 10.0/13.0 | 10.0/13.0 | 10.0/8.5    | 10.0/8.5    |
| Annual electricity consumption (cooling/heating) | kWh/a                       | 361/1878   | 557/3800    | 557/3800    | 475/2516   | 670/4441  | 675/4443  | 574/2843    | 574/2843    |
| Refrigerant                                      | GWP                         | R32/675    |             |             | R410A/2088 |           |           | R32/675     |             |
|  | charge kg/CO <sub>2</sub> e | 2.75/1.86  | 4.0/2.7     |             | 2.95/6.160 | 4.5/9.396 |           | 3.3/2.228   |             |
| Designated heating season                        |                             | Average    |             |             |            |           |           |             |             |

| Indoor unit                                      |                             | FDU100VH   | FDU100VH  | FDU71VH    | FDU100VH   | FDU100VH    | FDU71VH    | FDU100VH  | FDU100VH   |
|--|-----------------------------|------------|-----------|------------|------------|-------------|------------|-----------|------------|
| Outdoor unit                                     |                             | FDC100VNA  | FDC100VSA | FDC71VNP-W | FDC90VNP-W | FDC100VNP-W | FDC71VNP   | FDC90VNP1 | FDC100VNP  |
| Energy class (cooling/heating)                   |                             | A++/A+     | A++/A+    | A+/A+      | A++/A+     | A++/A+      | A+/A+      | A++/A     | A++/A+     |
| SEER   |                             | 6.11       | 6.11      | 5.86       | 6.66       | 6.11        | 5.73       | 6.56      | 6.36       |
| SCOP (Average climate)                           |                             | 4.19       | 4.19      | 4.12       | 4.22       | 4.13        | 4.00       | 3.98      | 4.13       |
| Pdesign (cooling/heating (@-10°C))               | kW                          | 10.0/8.5   | 10.0/8.5  | 7.10/5.70  | 9.0/6.0    | 10.0/6.4    | 7.1/5.7    | 9.0/8.1   | 10.0/8.1   |
| Annual electricity consumption (cooling/heating) | kWh/a                       | 573/2844   | 573/2844  | 425/1937   | 474/1990   | 573/2169    | 434/1997   | 480/2850  | 551/2748   |
| Refrigerant                                      | GWP                         | R410A/2088 |           |            | R32/675    |             | R410A/2088 |           |            |
|  | charge kg/CO <sub>2</sub> e | 3.8/7.934  |           | 1.3/0.878  | 1.7/1.148  |             | 1.6/3.341  | 2.1/4.385 | 2.55/5.324 |
| Designated heating season                        |                             | Average    |           |            |            |             |            |           |            |

| Indoor unit                                      |  | FDUM40VH             | FDUM50VH    | FDUM60VH    | FDUM71VH   | FDUM100VH   | FDUM100VH   | FDUM40VHx2 | FDUM50VHx2  |
|--|--|----------------------|-------------|-------------|------------|-------------|-------------|------------|-------------|
| Outdoor unit                                     |  | SRC40ZSX-W1          | SRC50ZSX-W2 | SRC60ZSX-W1 | FDC71VNX-W | FDC100VNX-W | FDC100VSX-W | FDC71VNX-W | FDC100VNX-W |
| Energy class (cooling/heating)                   |  | A++/A                | A+/A        | A++/A+      | A++/A+     | A++/A+      | A++/A+      | A++/A+     | A++/A       |
| SEER   |  | 6.11                 | 5.82        | 6.43        | 6.89       | 6.29        | 6.29        | 6.38       | 6.36        |
| SCOP (Average climate)                           |  | 3.81                 | 3.89        | 4.37        | 4.45       | 4.13        | 4.13        | 4.15       | 3.88        |
| Pdesign (cooling/heating (@-10°C))               |  | kW                   | 4.0/3.0     | 5.0/3.7     | 5.6/4.7    | 7.1/6.0     | 10.0/11.2   | 10.0/11.2  | 7.1/6.0     |
| Annual electricity consumption (cooling/heating) |  | kWh/a                | 230/1102    | 301/1332    | 305/1508   | 361/1878    | 557/3800    | 557/3800   | 390/2025    |
| Refrigerant                                      |  | GWP                  | R32/675     |             |            |             |             |            |             |
| charge   |  | kg/CO <sub>2</sub> e | 1.30/0.878  |             |            | 2.75/1.86   |             | 4.0/2.7    |             |
| Designated heating season                        |  |                      | Average     |             |            |             |             |            |             |

| Indoor unit                                      |                             | FDUM50VHx2  | FDUM40VH   | FDUM50VH   | FDUM60VH   | FDUM71VH | FDUM100VH | FDUM100VH | FDUM40VHx2 |
|--|-----------------------------|-------------|------------|------------|------------|----------|-----------|-----------|------------|
| Outdoor unit                                     |                             | FDC100VSX-W | SRC40ZSX-S | SRC50ZSX-S | SRC60ZSX-S | FDC71VNX | FDC100VNX | FDC100VSX | FDC71VNX   |
| Energy class (cooling/heating)                   |                             | A++/A       | A+/A+      | A+/A+      | A++/A+     | A/A      | A/A+      | A/A+      | A+/A+      |
| SEER   |                             | 6.36        | 6.01       | 5.68       | 6.42       | 5.24     | 5.22      | 5.19      | 5.61       |
| SCOP (Average climate)                           |                             | 3.88        | 4.15       | 4.36       | 4.37       | 3.90     | 4.10      | 4.10      | 4.05       |
| Pdesign (cooling/heating (@-10°C))               | kW                          | 10.0/10.0   | 4.0/3.5    | 5.0/4.3    | 5.6/5.4    | 7.1/7.0  | 10.0/13.0 | 10.0/13.0 | 7.1/7.0    |
| Annual electricity consumption (cooling/heating) | kWh/a                       | 550/3605    | 233/1182   | 309/1380   | 306/1731   | 475/2516 | 670/4441  | 675/4444  | 444/2419   |
| Refrigerant                                      | GWP                         | R32/675     | R410A/2088 |            |            |          |           |           |            |
|  | charge kg/CO <sub>2</sub> e | 4.0/2.7     | 1.5/3.132  |            | 2.95/6.160 |          | 4.5/9.396 |           | 2.95/6.160 |
| Designated heating season                        |                             | Average     |            |            |            |          |           |           |            |

# Energy Efficient and Environmentally Conscious

| Indoor unit                                      |  | FDUM50VHx2                   |  | FDUM50VHx2 |  | FDUM100VH   |  | FDUM100VH   |  | FDUM50VHx2  |  | FDUM50VHx2  |  | FDUM100VH |  | FDUM100VH |  |
|--|--|------------------------------|--|------------|--|-------------|--|-------------|--|-------------|--|-------------|--|-----------|--|-----------|--|
| Outdoor unit                                     |  | FDC100VNX                    |  | FDC100VSX  |  | FDC100VNA-W |  | FDC100VSA-W |  | FDC100VNA-W |  | FDC100VSA-W |  | FDC100VNA |  | FDC100VSA |  |
| Energy class (cooling/heating)                   |  |                              |  | A/A        |  | A+/A+       |  | A++/A+      |  | A+/A+       |  | A+/A+       |  | A++/A+    |  | A+/A+     |  |
| SEER   |  |                              |  | 5.14       |  | 5.11        |  | 6.11        |  | 6.11        |  | 5.82        |  | 5.82      |  | 6.11      |  |
| SCOP (Average climate)                           |  |                              |  | 3.88       |  | 3.87        |  | 4.19        |  | 4.19        |  | 4.00        |  | 4.00      |  | 4.19      |  |
| Pdesign (cooling/heating (@-10°C))               |  | kW                           |  | 10.0/10.0  |  | 10.0/10.0   |  | 10.0/8.5    |  | 10.0/8.5    |  | 10.0/8.5    |  | 10.0/8.5  |  | 10.0/8.5  |  |
| Annual electricity consumption (cooling/heating) |  | kWh/a                        |  | 681/3606   |  | 685/3618    |  | 574/2843    |  | 574/2843    |  | 602/2974    |  | 602/2974  |  | 573/2844  |  |
| Refrigerant                                      |  | GWP                          |  | R410A/2088 |  |             |  | R32/675     |  |             |  | R410A/2088  |  |           |  |           |  |
|  |  | charge kg/TCO <sub>2</sub> e |  | 4.5/9.396  |  |             |  | 3.3/2.228   |  |             |  | 3.8/7.934   |  |           |  |           |  |
| Designated heating season                        |  |                              |  | Average    |  |             |  |             |  |             |  |             |  |           |  |           |  |

| Indoor unit                                      |  | FDUM50VHx2                   |  | FDUM50VHx2 |  | FDUM71VH   |  | FDUM100VH  |  | FDUM100VH   |  | FDUM71VH   |  | FDUM100VH |  | FDUM100VH |  |
|--|--|------------------------------|--|------------|--|------------|--|------------|--|-------------|--|------------|--|-----------|--|-----------|--|
| Outdoor unit                                     |  | FDC100VNA                    |  | FDC100VSA  |  | FDC71VNP-W |  | FDC90VNP-W |  | FDC100VNP-W |  | FDC71VNP   |  | FDC90VNP1 |  | FDC100VNP |  |
| Energy class (cooling/heating)                   |  | A/A                          |  | A/A        |  | A+/A+      |  | A++/A+     |  | A++/A+      |  | A+/A+      |  | A++/A+    |  | A++/A+    |  |
| SEER   |  | 5.50                         |  | 5.50       |  | 5.86       |  | 6.65       |  | 6.11        |  | 5.73       |  | 6.56      |  | 6.36      |  |
| SCOP (Average climate)                           |  | 3.94                         |  | 3.94       |  | 4.12       |  | 4.22       |  | 4.13        |  | 4.00       |  | 3.98      |  | 4.13      |  |
| Pdesign (cooling/heating (@-10°C))               |  | kW                           |  | 10.0/8.5   |  | 10.0/8.5   |  | 7.10/5.70  |  | 9.0/6.0     |  | 10.0/6.4   |  | 7.1/5.7   |  | 9.0/8.1   |  |
| Annual electricity consumption (cooling/heating) |  | kWh/a                        |  | 637/3024   |  | 637/3024   |  | 425/1937   |  | 474/1990    |  | 573/2169   |  | 434/1997  |  | 480/2850  |  |
| Refrigerant                                      |  | GWP                          |  | R410A/2088 |  |            |  | R32/675    |  |             |  | R410A/2088 |  |           |  |           |  |
|  |  | charge kg/TCO <sub>2</sub> e |  | 3.8/7.934  |  |            |  | 1.3/0.878  |  |             |  | 1.7/1.148  |  |           |  |           |  |
| Designated heating season                        |  |                              |  | Average    |  |            |  |            |  |             |  |            |  |           |  |           |  |

| Indoor unit                                      |  | SRK71ZR-W                    |  | SRK100ZR-W(F) |  | SRK100ZR-W(F) |  | SRK50ZSX-Wx2 |  | SRK50ZSX-Wx2 |  | SRK50ZSX-Wx2 |  | SRK50ZSX-Wx2 |  | SRK100ZR-W(F) |  |
|--|--|------------------------------|--|---------------|--|---------------|--|--------------|--|--------------|--|--------------|--|--------------|--|---------------|--|
| Outdoor unit                                     |  | FDC71VNX-W                   |  | FDC100VNX-W   |  | FDC100VSX-W   |  | FDC100VNX-W  |  | FDC100VSA-W  |  | FDC100VNX-W  |  | FDC100VNX    |  | FDC100VSX     |  |
| Energy class (cooling/heating)                   |  | A++/A+                       |  | A++/A         |  | A++/A+        |  | A++/A+       |  | A++/A+       |  | A++/A+       |  | A++/A+       |  | A++/A+        |  |
| SEER   |  | 6.80                         |  | 6.54          |  | 6.54          |  | 7.66         |  | 7.66         |  | 7.66         |  | 6.11         |  | 6.13          |  |
| SCOP (Average climate)                           |  | 4.56                         |  | 4.01          |  | 4.01          |  | 4.25         |  | 4.25         |  | 4.25         |  | 4.16         |  | 4.33          |  |
| Pdesign (cooling/heating (@-10°C))               |  | kW                           |  | 7.1/5.8       |  | 10.0/10.5     |  | 10.0/10.5    |  | 10.0/11.2    |  | 10.0/11.2    |  | 10.0/10.4    |  | 10.0/8.5      |  |
| Annual electricity consumption (cooling/heating) |  | kWh/a                        |  | 366/1782      |  | 535/3671      |  | 535/3671     |  | 457/3691     |  | 457/3691     |  | 574/3504     |  | 571/2746      |  |
| Refrigerant                                      |  | GWP                          |  | R32/675       |  |               |  |              |  |              |  | R410A/2088   |  |              |  |               |  |
|  |  | charge kg/TCO <sub>2</sub> e |  | 2.75/1.86     |  | 4.0/2.7       |  |              |  |              |  | 4.5/9.396    |  |              |  |               |  |
| Designated heating season                        |  |                              |  | Average       |  |               |  |              |  |              |  |              |  |              |  |               |  |

| Indoor unit                                      |  | SRK100ZR-W(F)                |  | SRK50ZSX-Wx2 |  | SRK50ZSX-Wx2 |  | SRK100ZR-W |  | SRK100ZR-W |  | SRK71ZR-W  |  | SRK100ZR-W(F) |  | SRK100ZR-W |  |
|--|--|------------------------------|--|--------------|--|--------------|--|------------|--|------------|--|------------|--|---------------|--|------------|--|
| Outdoor unit                                     |  | FDC100VSA-W                  |  | FDC100VNA-W  |  | FDC100VSA-W  |  | FDC100VNA  |  | FDC100VSA  |  | FDC71VNP-W |  | FDC100VNP-W   |  | FDC100VNP  |  |
| Energy class (cooling/heating)                   |  | A++/A+                       |  | A++/A+       |  | A++/A+       |  | A++/A+     |  | A++/A+     |  | A++/A+     |  | A++/A+        |  | A++/A+     |  |
| SEER   |  | 6.13                         |  | 7.05         |  | 7.05         |  | 6.26       |  | 6.26       |  | 6.75       |  | 6.11          |  | 6.60       |  |
| SCOP (Average climate)                           |  | 4.33                         |  | 4.47         |  | 4.47         |  | 4.33       |  | 4.33       |  | 4.55       |  | 4.14          |  | 4.40       |  |
| Pdesign (cooling/heating (@-10°C))               |  | kW                           |  | 10.0/8.5     |  | 10.0/8.5     |  | 10.0/8.5   |  | 10.0/8.5   |  | 7.10/5.70  |  | 9.6/6.0       |  | 10.0/7.2   |  |
| Annual electricity consumption (cooling/heating) |  | kWh/a                        |  | 571/2746     |  | 497/2661     |  | 497/2661   |  | 560/2750   |  | 560/2750   |  | 369/1756      |  | 531/2289   |  |
| Refrigerant                                      |  | GWP                          |  | R32/675      |  |              |  | R410A/2088 |  |            |  | R32/675    |  |               |  |            |  |
|  |  | charge kg/TCO <sub>2</sub> e |  | 3.3/2.228    |  |              |  | 3.8/7.934  |  |            |  | 1.3/0.878  |  | 1.7/1.148     |  |            |  |
| Designated heating season                        |  |                              |  | Average      |  |              |  |            |  |            |  |            |  |               |  |            |  |

| Indoor unit                                      |  | FDE40VH                      |  | FDE50VH     |  | FDE60VH     |  | FDE71VH    |  | FDE100VH    |  | FDE100VH    |  | FDE40VHx2  |  | FDE50VHx2   |  |
|--|--|------------------------------|--|-------------|--|-------------|--|------------|--|-------------|--|-------------|--|------------|--|-------------|--|
| Outdoor unit                                     |  | SRC40ZSX-W1                  |  | SRC50ZSX-W2 |  | SRC60ZSX-W1 |  | FDC71VNX-W |  | FDC100VNX-W |  | FDC100VSX-W |  | FDC71VNX-W |  | FDC100VNX-W |  |
| Energy class (cooling/heating)                   |  | A++/A+                       |  | A++/A+      |  | A++/A+      |  | A++/A+     |  | A++/A+      |  | A++/A+      |  | A++/A+     |  | A++/A+      |  |
| SEER   |  | 6.46                         |  | 6.15        |  | 6.72        |  | 6.58       |  | 7.00        |  | 7.00        |  | 6.48       |  | 6.76        |  |
| SCOP (Average climate)                           |  | 4.02                         |  | 4.07        |  | 4.41        |  | 4.45       |  | 4.24        |  | 4.24        |  | 4.49       |  | 4.00        |  |
| Pdesign (cooling/heating (@-10°C))               |  | kW                           |  | 4.0/3.0     |  | 5.0/3.8     |  | 5.6/4.5    |  | 7.1/6.0     |  | 10.0/11.2   |  | 7.1/6.0    |  | 10.0/9.8    |  |
| Annual electricity consumption (cooling/heating) |  | kWh/a                        |  | 217/1045    |  | 285/1307    |  | 292/1430   |  | 378/1889    |  | 501/3700    |  | 384/1870   |  | 518/3434    |  |
| Refrigerant                                      |  | GWP                          |  | R32/675     |  |             |  |            |  |             |  | R32/675     |  |            |  |             |  |
|  |  | charge kg/TCO <sub>2</sub> e |  | 1.30/0.878  |  |             |  | 2.75/1.86  |  | 4.0/2.7     |  | 2.75/1.86   |  | 4.0/2.7    |  |             |  |
| Designated heating season                        |  |                              |  | Average     |  |             |  |            |  |             |  |             |  |            |  |             |  |

| Indoor unit                                      |  | FDE50VHx2                    |  | FDE40VH    |  | FDE50VH    |  | FDE60VH    |  | FDE71VH  |  | FDE100VH   |  | FDE100VH  |  | FDE40VHx2 |  |
|--|--|------------------------------|--|------------|--|------------|--|------------|--|----------|--|------------|--|-----------|--|-----------|--|
| Outdoor unit                                     |  | FDC100VSX-W                  |  | SRC40ZSX-S |  | SRC50ZSX-S |  | SRC60ZSX-S |  | FDC71VNX |  | FDC100VNX  |  | FDC100VSX |  | FDC71VNX  |  |
| Energy class (cooling/heating)                   |  | A++/A+                       |  | A++/A      |  | A++/A      |  | A++/A+     |  | B/A+     |  | A+/A+      |  | A+/A+     |  | A+/A+     |  |
| SEER   |  | 6.76                         |  | 6.46       |  | 6.10       |  | 6.72       |  | 4.87     |  | 5.89       |  | 5.84      |  | 5.26      |  |
| SCOP (Average climate)                           |  | 4.00                         |  | 3.93       |  | 3.92       |  | 4.08       |  | 4.00     |  | 4.18       |  | 4.17      |  | 4.09      |  |
| Pdesign (cooling/heating (@-10°C))               |  | kW                           |  | 10.0/9.8   |  | 4.0/3.0    |  | 5.0/3.8    |  | 5.6/4.3  |  | 7.1/6.0    |  | 10.0/11.2 |  | 7.1/6.0   |  |
| Annual electricity consumption (cooling/heating) |  | kWh/a                        |  | 518/3434   |  | 217/1070   |  | 288/1359   |  | 292/1476 |  | 511/2102   |  | 595/3756  |  | 599/3762  |  |
| Refrigerant                                      |  | GWP                          |  | R32/675    |  |            |  | R410A/2088 |  |          |  | R410A/2088 |  |           |  |           |  |
|  |  | charge kg/TCO <sub>2</sub> e |  | 4.0/2.7    |  |            |  | 1.5/3.132  |  |          |  | 2.95/6.160 |  | 4.5/9.396 |  |           |  |
| Designated heating season                        |  |                              |  | Average    |  |            |  |            |  |          |  |            |  |           |  |           |  |

| Indoor unit                                      |  | FDE50VHx2                    |  | FDE50VHx2  |  | FDE100VH    |  | FDE100VH    |  | FDE50VHx2   |  | FDE50VHx2   |  | FDE100VH  |  | FDE100VH  |  |
|--|--|------------------------------|--|------------|--|-------------|--|-------------|--|-------------|--|-------------|--|-----------|--|-----------|--|
| Outdoor unit                                     |  | FDC100VNX                    |  | FDC100VSX  |  | FDC100VNA-W |  | FDC100VSA-W |  | FDC100VNA-W |  | FDC100VSA-W |  | FDC100VNA |  | FDC100VSA |  |
| Energy class (cooling/heating)                   |  | A/A                          |  | A/A        |  | A++/A+      |  | A++/A+      |  | A++/A+      |  | A++/A+      |  | A++/A+    |  | A++/A+    |  |
| SEER   |  | 5.53                         |  | 5.49       |  | 6.67        |  | 6.67        |  | 6.16        |  | 6.16        |  | 6.35      |  | 6.35      |  |
| SCOP (Average climate)                           |  | 3.94                         |  | 3.94       |  | 4.31        |  | 4.31        |  | 4.10        |  | 4.10        |  | 4.31      |  | 4.31      |  |
| Pdesign (cooling/heating (@-10°C))               |  | kW                           |  | 10.0/10.8  |  | 10.0/10.8   |  | 10.0/8.5    |  | 10.0/8.5    |  | 10.0/8.5    |  | 10.0/8.5  |  | 10.0/8.5  |  |
| Annual electricity consumption (cooling/heating) |  | kWh/a                        |  | 634/3840   |  | 638/3841    |  | 525/2764    |  | 525/2764    |  | 569/2906    |  | 569/2906  |  | 552/2763  |  |
| Refrigerant                                      |  | GWP                          |  | R410A/2088 |  |             |  | R32/675     |  |             |  | R410A/2088  |  |           |  |           |  |
|  |  | charge kg/TCO <sub>2</sub> e |  | 4.5/9.396  |  |             |  | 3.30/2.228  |  |             |  | 3.8/7.934   |  |           |  |           |  |
| Designated heating season                        |  |                              |  | Average    |  |             |  |             |  |             |  |             |  |           |  |           |  |

| Indoor unit                                      |                             | FDE50VHx2  | FDE50VHx2 | FDE71VH    | FDE100VH   | FDE100VH    | FDE71VH    | FDE100VH  | FDE100VH   |
|--|-----------------------------|------------|-----------|------------|------------|-------------|------------|-----------|------------|
| Outdoor unit                                     |                             | FDC100VNA  | FDC100VSA | FDC71VNP-W | FDC90VNP-W | FDC100VNP-W | FDC71VNP   | FDC90VNP1 | FDC100VNP  |
| Energy class (cooling/heating)                   |                             | A+/A+      | A+/A+     | A++/A+     | A++/A+     | A++/A+      | A+/A+      | A++/A+    | A+/A+      |
| SEER   |                             | 5.71       | 5.71      | 6.44       | 6.78       | 6.63        | 6.35       | 6.63      | 6.73       |
| SCOP (Average climate)                           |                             | 4.10       | 4.10      | 4.32       | 4.46       | 4.24        | 4.22       | 4.25      | 4.44       |
| Pdesign (cooling/heating (@-10°C))               | kW                          | 10.0/8.5   | 10.0/8.5  | 7.10/5.70  | 9.0/5.8    | 10.0/6.0    | 7.1/5.8    | 9.0/8.2   | 10.0/8.1   |
| Annual electricity consumption (cooling/heating) | kWh/a                       | 613/2905   | 613/2905  | 386/1849   | 465/1822   | 529/1984    | 392/1927   | 475/2703  | 521/2555   |
| Refrigerant                                      | GWP                         | R410A/2088 |           |            | R32/675    |             | R410A/2088 |           |            |
|  | charge kgTCO <sub>2</sub> e | 3.8/7.934  |           |            | 1.30/0.878 | 1.70/1.148  | 1.6/3.341  | 2.1/4.385 | 2.55/5.324 |
| Designated heating season                        |                             | Average    |           |            |            |             |            |           |            |

| Indoor unit                                      |                              | FDF71VH     | FDF100VH    | FDF100VH    | FDF71VD1   | FDF100VD2 | FDF100VD2 | FDF100VH    | FDF100VH    |
|--|------------------------------|-------------|-------------|-------------|------------|-----------|-----------|-------------|-------------|
| Outdoor unit                                     |                              | FDC71VNX-W  | FDC100VNX-W | FDC100VSX-W | FDC71VNX   | FDC100VNX | FDC100VSX | FDC100VNA-W | FDC100VSA-W |
| Energy class (cooling/heating)                   |                              | A++/A+      | A++/A       | A++/A       | B/A        | A/A       | A/A       | A+/A+       | A+/A+       |
| SEER   |                              | 6.25        | 6.10        | 6.10        | 4.80       | 5.20      | 5.17      | 5.76        | 5.76        |
| SCOP (Average climate)                           |                              | 4.03        | 3.84        | 3.84        | 3.81       | 3.80      | 3.80      | 4.00        | 4.00        |
| Pdesign (cooling/heating (@-10°C))               | kW                           | 7.1/6.0     | 10.0/11.2   | 10.0/11.2   | 7.1/6.7    | 10.0/13.0 | 10.0/13.0 | 10.0/8.50   | 10.0/8.50   |
| Annual electricity consumption (cooling/heating) | kWh/a                        | 376/2085    | 574/4084    | 574/4084    | 518/2464   | 673/4792  | 678/4795  | 608/2973    | 608/2973    |
| Refrigerant                                      | GWP                          | R32/675     |             |             | R410A/2088 |           |           | R32/675     |             |
|  | charge kg/TCO <sub>2</sub> e | 2.75 / 1.86 | 4.0 / 2.7   |             | 2.95/6.160 | 4.5/9.396 |           | 3.3/2.23    |             |
| Designated heating season                        |                              | Average     |             |             |            |           |           |             |             |

| Indoor unit                                      |                              | FDF100VD2  | FDF100VD2 | FDF71VH    | FDF100VH   | FDF100VH    | FDF71VD1   | FDF100VD2 | FDF100VD2  |
|--|------------------------------|------------|-----------|------------|------------|-------------|------------|-----------|------------|
| Outdoor unit                                     |                              | FDC100VNA  | FDC100VSA | FDC71VNP-W | FDC90VNP-W | FDC100VNP-W | FDC71VNP   | FDC90VNP1 | FDC100VNP  |
| Energy class (cooling/heating)                   |                              | A+/A+      | A+/A+     | A+/A       | A+/A       | A/A         | A/A        | A+/A+     | A/A        |
| SEER   |                              | 5.70       | 5.70      | 5.85       | 5.91       | 5.43        | 5.25       | 5.69      | 5.41       |
| SCOP (Average climate)                           |                              | 4.00       | 4.00      | 3.91       | 4.24       | 3.94        | 3.91       | 4.01      | 3.94       |
| Pdesign (cooling/heating (@-10°C))               | kW                           | 10.0/8.5   | 10.0/8.5  | 7.10/5.70  | 9.0/6.0    | 10.0/6.40   | 7.1/5.5    | 9.0/8.1   | 10.0/8.1   |
| Annual electricity consumption (cooling/heating) | kWh/a                        | 614/2978   | 614/2978  | 425/2039   | 535/1981   | 645/2274    | 474/1972   | 554/2825  | 647/2875   |
| Refrigerant                                      | GWP                          | R410A/2088 |           |            | R32/675    |             | R410A/2088 |           |            |
|  | charge kg/TCO <sub>2</sub> e | 3.8/7.934  |           |            | 1.6/3.341  | 1.7/1.15    | 1.6/3.341  | 2.1/4.385 | 2.55/5.324 |
| Designated heating season                        |                              | Average    |           |            |            |             |            |           |            |

- Refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.
- SEER/SCOP are based on EN14825:2016 and Commission regulation(EU) No.2016/2281. Temperature conditions for calculating SCOP are based on "Average climate".
- 'tonne(s) of CO<sub>2</sub> equivalent' means a quantity of greenhouse gases- expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.

## SEER and SCOP is defined in European regulations listed below.

No.2016/2281: requirement for air-heating products, cooling products, high temperature process chillers and fan coil units. Seasonal efficiency is the new way of rating the true efficiency of heating and cooling products over an entire year.

Set by the EU's new regulation implementing Eco-Design Directive for Energy Related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

The new Seasonal Efficiency rating system that must be used for heating and cooling by all manufacturers are;

| Indoor unit            | FDT125VH    | FDT140VH    | FDT125VH    | FDT140VH    | FDT125VH  | FDT140VH  | FDT125VH  | FDT140VH  | FDT125VH    | FDT140VH    | FDT125VH    | FDT140VH    |
|------------------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|
| Outdoor unit           | FDC125VNX-W | FDC140VNX-W | FDC125VSX-W | FDC140VSX-W | FDC125VNX | FDC140VNX | FDC125VSX | FDC140VSX | FDC125VNA-W | FDC140VNA-W | FDC125VSA-W | FDC140VSA-W |
| SEER                   | 7.64        | 7.20        | 7.64        | 7.20        | 6.18      | 5.97      | 6.18      | 6.11      | 6.53        | 6.17        | 6.53        | 6.17        |
| SCOP (Average climate) | 4.44        | 4.35        | 4.26        | 4.14        | 4.08      | 4.05      | 4.03      | 3.99      | 4.38        | 4.42        | 4.38        | 4.42        |

| Indoor unit            | FDT125VH  | FDT140VH  | FDT125VH  | FDT140VH  | FDT125VH    | FDT140VH    | FDT125VH    | FDT140VH    | FDT125VH    | FDT140VH  | FDT125VH  | FDT140VH  |
|------------------------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|
| Outdoor unit           | FDC125VNA | FDC140VNA | FDC125VSA | FDC140VSA | FDC125VNP-W | FDC125VNX-W | FDC140VNX-W | FDC125VSX-W | FDC140VSX-W | FDC125VNX | FDC140VNX | FDC125VSX |
| SEER                   | 6.52      | 6.16      | 6.52      | 6.16      | 6.37        | 6.10        | 5.79        | 6.10        | 5.79        | 5.34      | 5.22      | 5.49      |
| SCOP (Average climate) | 4.38      | 4.28      | 4.38      | 4.28      | 4.27        | 4.06        | 3.99        | 3.92        | 3.88        | 3.87      | 3.85      | 3.91      |

| Indoor unit            | FDT125VH  | FDT140VH    | FDT125VH    | FDT140VH    | FDT125VH    | FDT140VH    | FDT125VH    | FDT140VH    | FDT125VH  | FDT140VH  | FDT125VH  | FDT140VH  |
|------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|
| Outdoor unit           | FDC140VSX | FDC125VNA-W | FDC140VNA-W | FDC125VSA-W | FDC140VSA-W | FDC200VSA-W | FDC250VSA-W | FDC280VSA-W | FDC125VNA | FDC140VNA | FDC125VSA | FDC140VSA |
| SEER                   | 5.36      | 5.57        | 5.30        | 5.57        | 5.30        | 5.10        | 4.88        | 4.92        | 5.26      | 5.08      | 5.26      | 5.08      |
| SCOP (Average climate) | 3.88      | 4.13        | 4.01        | 4.13        | 4.01        | 3.55        | 3.54        | 3.70        | 4.13      | 4.01      | 4.13      | 4.01      |

| Indoor unit            | FDT200VH  | FDT250VH  | FDT125VH    | FDT125VH    | FDT140VH    | FDT125VH    | FDT140VH    | FDT125VH  | FDT140VH  | FDT125VH  | FDT140VH  | FDT125VH    |
|------------------------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-------------|
| Outdoor unit           | FDC200VSA | FDC250VSA | FDC125VNP-W | FDC125VNX-W | FDC140VNX-W | FDC125VSX-W | FDC140VSX-W | FDC125VNX | FDC140VNX | FDC125VSA | FDC140VSA | FDC125VNA-W |
| SEER                   | 5.06      | 4.82      | 5.50        | 6.10        | 5.79        | 6.10        | 5.79        | 5.34      | 5.22      | 5.49      | 5.36      | 5.57        |
| SCOP (Average climate) | 3.52      | 3.51      | 4.01        | 4.06        | 3.99        | 3.92        | 3.88        | 3.87      | 3.85      | 3.91      | 3.88      | 4.13        |

| Indoor unit            | FDT125VH    | FDT125VH    | FDT140VH    | FDT125VH  | FDT140VH  | FDT125VH  | FDT140VH  | FDT125VH    | FDT125VH    | FDT140VH    | FDT125VH    | FDT140VH    |
|------------------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|
| Outdoor unit           | FDC140VNA-W | FDC125VSA-W | FDC140VSA-W | FDC125VNA | FDC140VNA | FDC125VSA | FDC140VSA | FDC125VNP-W | FDC125VNX-W | FDC140VNX-W | FDC125VSX-W | FDC140VSX-W |
| SEER                   | 5.30        | 5.57        | 5.30        | 5.26      | 5.08      | 5.26      | 5.08      | 6.10        | 6.53        | 6.29        | 6.53        | 6.29        |
| SCOP (Average climate) | 4.01        | 4.13        | 4.01        | 4.13      | 4.01      | 4.13      | 4.01      | 4.01        | 4.20        | 4.17        | 4.02        | 3.96        |

| Indoor unit            | FDE125VH  | FDE140VH  | FDE125VH  | FDE140VH  | FDE125VH    | FDE140VH    | FDE125VH    | FDE140VH    | FDE125VH  | FDE140VH  | FDE125VH  | FDE140VH  |
|------------------------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|
| Outdoor unit           | FDC125VNX | FDC140VNX | FDC125VSX | FDC140VSX | FDC125VNA-W | FDC140VNA-W | FDC125VSA-W | FDC140VSA-W | FDC125VNA | FDC140VNA | FDC125VSA | FDC140VSA |
| SEER                   | 5.56      | 5.41      | 5.74      | 5.56      | 6.03        | 5.76        | 6.03        | 5.76        | 6.03      | 5.76      | 6.03      | 5.76      |
| SCOP (Average climate) | 3.71      | 3.66      | 3.66      | 3.62      | 4.30        | 4.24        | 4.30        | 4.24        | 4.30      | 4.15      | 4.30      | 4.15      |

| Indoor unit            | FDF125VH    | FDF125VH    | FDF140VH    | FDF125VH    | FDF140VH    | FDF125VD  | FDF140VD  | FDF125VD  | FDF140VD  | FDF125VH    | FDF140VH    | FDF125VH    |
|------------------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|
| Outdoor unit           | FDC125VNP-W | FDC125VNX-W | FDC140VNX-W | FDC125VSX-W | FDC140VSX-W | FDC125VNX | FDC140VNX | FDC125VSX | FDC140VSX | FDC125VNA-W | FDC140VNA-W | FDC125VSA-W |
| SEER                   | 5.95        | 6.03        | 5.83        | 6.03        | 5.83        | 4.97      | 4.80      | 5.11      | 4.94      | 5.36        | 5.20        | 5.36        |
| SCOP (Average climate) | 4.21        | 3.90        | 3.81        | 3.90        | 4.20        | 3.60      | 3.56      | 3.60      | 3.60      | 3.96        | 3.99        | 3.96        |

| Indoor unit            | FDF140VH    | FDF125VD  | FDF140VD  | FDF125VD  | FDF140VD  |
|------------------------|-------------|-----------|-----------|-----------|-----------|
| Outdoor unit           | FDC140VSA-W | FDC125VNA | FDC140VNA | FDC125VSA | FDC140VSA |
| SEER                   | 5.20        | 5.36      | 5.09      | 5.36      | 5.03      |
| SCOP (Average climate) | 3.99        | 3.96      | 4.16      | 3.96      | 4.16      |

## Before starting use

### Heating performance

The heating performance values (kW) described in the catalogue are the values obtained by operating at an outdoor temperature of 7°C and indoor temperature of 20°C as set forth in the ISO Standards. Heating performance is reduced as the temperature drops, the outdoor temperature is too low and the heating performance is insufficient, use other heating appliances as well.

### Indication of sound values

The sound values are the values (A scale) measured in a chamber such as an anechoic chamber following the ISO Standards. In the actual installation state, the value is normally larger than the values given in the catalogue due to the effect of surrounding noise and echo. Take this into consideration when installing.

### Use in oil atmosphere

Avoid installing this unit in an atmosphere where oil scatters or builds up, such as in a kitchen or machine factory.

If the oil adheres to the heat exchanger, the heat exchanging performance will drop, mist may be generated, and the synthetic resin parts may deform and break.

### Use in acidic or alkaline atmosphere

If this unit is used in acidic atmosphere such as hot spring areas having high level of sulfuric gases or in alkaline atmosphere including ammonia or calcium chloride, places where the exhaust of the heat exchanger is sucked in, or at coastal areas where the unit is subject to salt breezes, the outer plate or heat exchanger, etc., will corrode. Please ask a dealer or specialist when you use an air conditioner in places differing from a general atmosphere.

### Use in places with high ceilings

If the ceiling is high, install a circulator to improve the heat and air flow distribution when heating.

### Refrigerant leakage

The refrigerant (R32,R410A) used for air conditioner is non-toxic and in its original state.

However, in consideration of a state where the refrigerant leaks into the room, measures against refrigerant leaks must be taken in small rooms where the tolerable level could be exceeded. Take measures by installing ventilation devices, etc.

### Use in snowy areas

Take the following measures when installing the outdoor unit in snowy areas.

#### -Snow prevention

Install a snow-prevention hood so that the snow does not obstruct the air intake port or enter and freeze in the outdoor unit.

#### -Snow piling

In areas with heavy snow fall, the piled snow could block the air intake port. In this case, a frame that is 50cm or higher than the estimated snow fall must be installed underneath the outdoor unit.

### Automatic defrosting device

If the temperature is low, and the humidity is high, frost will stick to the heat exchanger of the outdoor unit. If continued to use, the heating performance will drop.

The "Automatic defrosting device" will function to remove this frost. After heating for approx. three to ten minutes, it will stop, and the frost will be removed. After defrosting, hot air will be blown again.

### Servicing

After the air conditioner has been used for several seasons, dirt will build up in the air conditioner causing the performance to drop. In addition to regular servicing, a maintenance contract by a specialist is recommended.

## Safety Precautions

### Air conditioner usage target

The air conditioner described in this catalogue is a dedicated cooling/heating device for human use.

Do not use it for special applications such as the storage of food items, animals or plants, precision devices or valuable art, etc.

This could cause the quality of the items to drop, etc.

Do not use this for cooling vehicles or ships. Water leakage or current leaks could occur.

### Before use

Always read the "User's Manual" thoroughly before starting use.

### Installation

Always commission the installation to a dealer or specialist. Improper installation will lead to water leakage, electric shocks and fires.

Make sure that the outdoor unit is stable in installation. Fix the unit to stable base.

### Usage place

Do not install in places where combustible gas could leak or where there are sparks. Installation in a place where combustible gas could be generated, flow or accumulate, or places containing carbon fibers could lead to fires.

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Our factories are ISO9001 and ISO14001 certified.

#### Certified ISO 9001



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