

R-290 intarblock



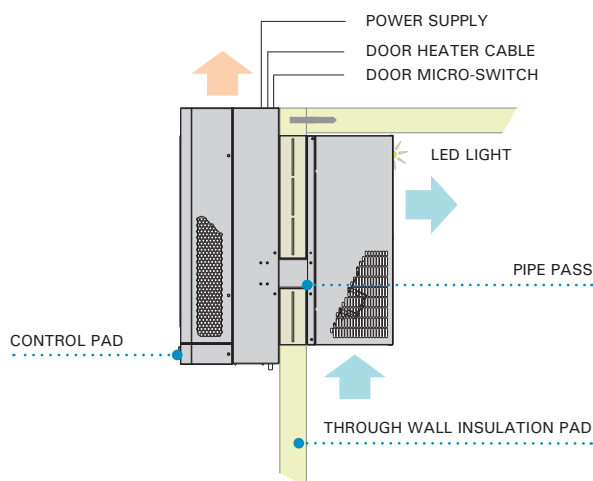
Self-contained slim monoblock units for wall-mount installation in small cold rooms for positive and negative temperature.

This new range of monoblock units incorporates the latest technology components in a very compact size that integrates into the wall panel of the cold room.

Features

- ▶ 230V 50Hz power supply. Available in 60Hz. Others voltages by request.
- ▶ R-290 refrigerant load, below 0.2 kg.
- ▶ Hermetic reciprocating compressor.
- ▶ EC motor fans.
- ▶ High and low pressure switches.
- ▶ Thermostatic expansion valve.
- ▶ Hot gas defrost.
- ▶ Stainless steel drain pan.
- ▶ Evaporation of condensed water.
- ▶ Cold room LED light and door micro-switch.
- ▶ Removable through-wall insulation pad included.
- ▶ Door heater cable (only for BCV series).
- ▶ Multifunctional electronic control.

Installation scheme



- ❄ Natural refrigerant **R-290** with high energy efficiency.
- ❄ Tropicalised design for ambient temperature up to 45 °C.
- ❄ Thermostatic expansion valve.
- ❄ Hot gas defrost with temperature control.

Installation



Propane

Propane or R-290 is a hydrocarbon used as a refrigerant in small commercial refrigeration units. It has a low environmental impact and excellent thermodynamic properties.

- ▶ Global-warming potential GWP = 0,02 according to IPCC AR6
- ▶ Boiling point at 1.013 bar (°C): -42.10
- ▶ Temperature slip (°C): 0
- ▶ Safety classification: A3. Not toxic but extremely flammable.
- ▶ The International Electrotechnical Committee IEC 60335 allow the use of up to 0.5 kg on compact commercial refrigeration units.

Electronic control

XW60LH electronic control, as standard on our commercial propane and door monoblock units, is an advanced small size controller, which includes the following functions:



- Temperature control with maximum and minimum temperature recording.
- Quick cooling function Jet Cool.
- Night operation mode.
- 4 output relays for: compressor, fan, defrost and light.
- 3 temperature NTC probes for cold room, defrost and condensation.

Built-in cold room LED light

High efficiency cold room LED light, built-in in the unit that is automatically activated when the cold room door is opened.

230V 50Hz | Positive temperature | R-290

Series / Model	Compressor		Cooling capacity / Cold room volume according to cold room temperature ⁽¹⁾						Input power (kW)	Max. current (A)	Evap. air flow (m³/h)	Refrigerant load (kg)	Weight (kg)	SPL dB(A) ⁽²⁾	Price (€)
	HP	Power supply	0 °C		5 °C		10 °C								
			W	m³	W	m³	W	m³							
R-290	MCV-LD-0 009	1/3	230V	635	5	740	7	850	12	0.40	3.5	300	< 0.10	38	29
	MCV-LD-1 012	1/2	230V	1 050	9	1 220	15	1 410	27	0.52	3.3	500	< 0.10	56	29
	MCV-LD-1 017	3/4	230V	1 340	14	1 560	21	1 780	36	0.68	4.3	500	< 0.15	57	31
	MCV-LD-2 026	2	230V	1 824	21	2 170	34	2 540	58	0.94	5.9	950	< 0.15	86	35
	MCV-LD-2 034	2 1/2	230V	2 215	27	2 618	43	2 960	70	1.31	9.0	950	< 0.20	86	35

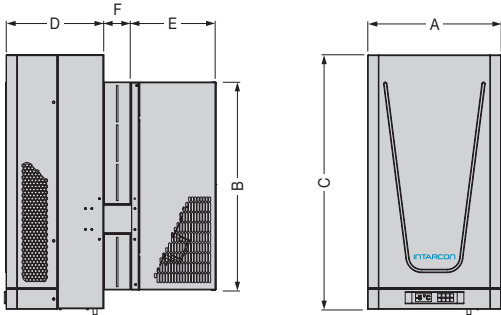
230V 50Hz | Negative temperature | R-290

Series / Model	Compressor		Cooling capacity / Cold room volume according to cold room temperature ⁽¹⁾						Input power (kW)	Max. current (A)	Evap. air flow (m³/h)	Refrigerant load (kg)	Weight (kg)	SPL dB(A) ⁽²⁾	Price (€)
	HP	Power supply	-25 °C		-20 °C		-15 °C								
			W	m³	W	m³	W	m³							
R-290	BCV-LD-0 014	3/4	230V	370	1	440	2	520	4	0.38	3.6	300	< 0.10	38	29
	BCV-LD-1 017	3/4	230V	540	2	660	5	790	8	0.48	4.3	500	< 0.10	57	29
	BCV-LD-1 028	1 1/4	230V	770	4	920	9	1 090	15	0.73	5.6	500	< 0.15	64	31
	BCV-LD-2 034	1 1/2	230V	985	7	1 210	14	1 470	25	0.97	9.3	950	< 0.20	86	34

Options

- ▶ Evaporator coil epoxy anti-corrosion treatment.

Dimensions

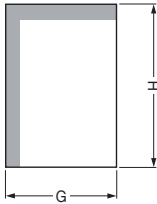


Dimensions (mm)	A	B	C	D	E	F
0 series	420	596	803	237	207	86
1 series	420	656	803	307	270	86
2 series	620	676	764	343	310	106

⁽¹⁾ Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT), ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 8).

⁽²⁾ Sound pressure in dB (A) in open field at 10 m from the unit.

Mounting frames



PLUG-IN FRAME

Dimensions (mm)	G	H
0 series	400	600
1 series	400	660
2 series	600	680