



Commercial monoblock units for small-size chiller and freezer cold rooms, for ceiling panel installation.

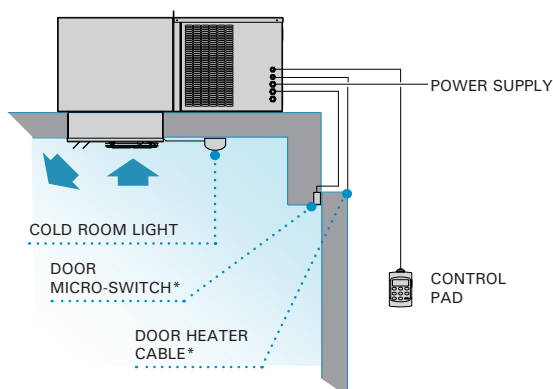
Features

- ▶ 230V 50Hz or 400V 3N 50Hz power supply. Available in 60Hz. Others voltages by request.
- ▶ R-290 refrigerant load, below 0.2 kg.
- ▶ R-134a or R-449A refrigerant load, below 1.5 kg.
- ▶ Hermetic reciprocating compressor.
- ▶ High pressure switch.
- ▶ Low pressure switch (CR-ND series).
- ▶ Thermostatic expansion valve.
- ▶ MCB protection.
- ▶ Hot gas defrost.
- ▶ Stainless steel drain pan.
- ▶ Evaporation of condensed water.
- ▶ Cold room LED light and micro-switch (CR-ND model).
- ▶ Cold room light and micro-switch cable (CR-Y/G model).
- ▶ Door heater cable (only BCR model).
- ▶ Evaporator case made in sandwich panel, with 50 mm polyurethane insulation, internally covered in steel sheet.
- ▶ Multifunction electronic control.

Series

- ▶ **CR-N:** Axial monoblock version for ceiling panel installation.
- ▶ **CR-C:** Centrifugal monoblock version with centrifugal motor fan to duct the hot condensation air outdoors.

Installation scheme (1,2 and 3 series)



* Door heater cable only in negative temperature series.
* Door micro-switch not included (except CR-ND models).

- ❄ 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.
- ❄ Units exempt from leak checks.

Installation



Electronic control

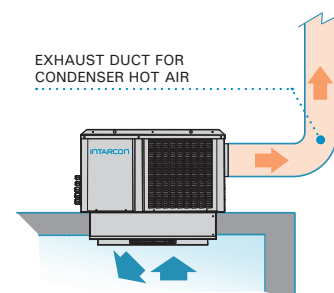
intartop units feature XWING electronic control as standard:



- Multi-function remote digital control.
- Temperature control with maximum and minimum temperature value recording.
- Quick cooling function Jet Cool.
- Night operation mode.

Centrifugal version

intartop centrifugal units feature a centrifugal motor fan to duct the hot condensation air outdoors.



Exhaust duct

Recommended size for 20 m long steel, PVC or fibreglass ducts (each elbow at 90° equals 5 m in length). For flexible or semi-flexible ducts use a larger size:

- 0 series: 200 x 150 mm or Ø 150 mm
- 1 series: 200 x 200 mm or Ø 150 mm
- 2 series: 250 x 150 mm or Ø 200 mm
- 3 series: 200 x 300 mm or Ø 250 mm

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)	Refrig. load (kg) (2)	Weight (kg)	SPL dB(A) (4)		
	HP	Power supply	0 °C		5 °C		10 °C									
			W	m³	W	m³	W	m³								
R-290	MCR-ND-0 009	1/3	230V	670	5	780	7	900	12	0.39	3.6	300	< 0.10	63	29	
	MCR-ND-1 012	1/2	230V	1 060	9	1 240	15	1 435	27	0.53	3.4	600	< 0.10	73	29	
	MCR-ND-1 017	3/4	230V	1 370	14	1 585	21	1 815	36	0.68	4.5	600	< 0.15	73	31	
	MCR-ND-2 026	2	230V	1 850	21	2 200	34	2 577	58	0.98	5.9	1 150	< 0.15	96	35	
	MCR-ND-2 034	2 1/2	230V	2 240	27	2 650	43	2 995	70	1.35	9.0	1 150	< 0.20	96	35	

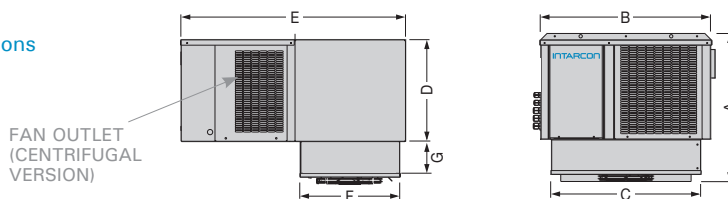
230V 50Hz | Negative temperature | R-290

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)	Refrig. load (kg) ⁽²⁾	Weight (kg)	SPL dB(A) ⁽⁴⁾	
				-25 °C		-20 °C		-15 °C								
		HP	Power supply	W	m³	W	m³	W	m³							
R-290	BCR-ND-0 014	3/4	230V	385	1	460	2	550	4	0.39	3.3	300	< 0.10	65	29	
	BCR-ND-1 017	3/4	230V	540	2	660	5	800	8	0.49	3.5	600	< 0.10	73	29	
	BCR-ND-1 028	1 1/4	230V	770	4	925	9	1 100	15	0.73	6.0	600	< 0.15	80	31	
	BCR-ND-2 034	1 1/2	230V	985	7	1 215	14	1 475	25	0.99	9.3	1 150	< 0.20	96	34	

Options

- Change to 400V 3N 50Hz power supply (CR-Y/G models).
- Door micro-switch (CR-Y/G models).
- Non-return damper (centrifugal version).
- Adaptation of air discharge to circular duct (CR-Y/G models).
- Vertical discharge (centrifugal version).
- Evaporator coil epoxy anti-corrosion treatment.

Dimensions



Dimensions (mm)	A	B	C	D	E	F	G	Fan outlet	Hopper
0 series	480	600	430	330	790	375	100	185 x 115	Ø 150
1 series	574	665	582	385	850	379	135	185 x 115	Ø 150
2 series	677	835	756	469	850	379	135	230 x 130	Ø 200
3 series	680	925	843	485	1 070	454	145	266 x 236	Ø 250

⁽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⁾ A3 refrigerant charge less than 0.5 kg, units exempt from the International Electrotechnical Committee (IEC 60335).

⁽³⁾ Units with refrigerant load less than 5 tons of CO₂ equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.

⁽⁴⁾ Condenser sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

⁽⁵⁾ Available static pressure of condensation.

* Units available with 400V 3N 50Hz power supply.

Mounting frames

A diagram of a rectangular ceiling frame. The frame is shown in perspective, with a grey shaded top edge and a grey shaded left edge. The bottom edge is white. The width of the frame is labeled 'H' with a dimension line below it. The height of the frame is labeled 'I' with a dimension line to its right.

Dimensions (mm)	H	I
0 series	435	380
1 series	590	385
2 series	760	385
3 series	850	460

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