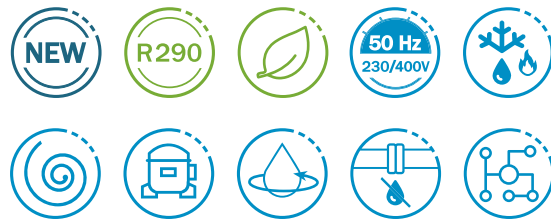


R-290 water-cooled condensing units



Water-cooled condensing units for positive and negative temperature refrigeration with very compact size and quiet operation, designed for on-wall or on refrigerated service.

WHAT'S NEW

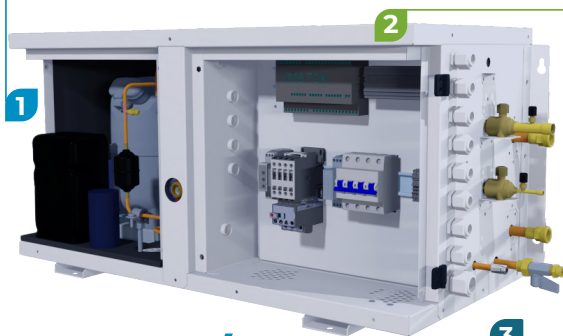
Removable front register

Front access panel for access to the main components of the unit: compressor, boiler, valves and starter kit.



Independent access to the electrical panel

Electrical panel with front access. All the protection and electronic control elements are integrated. Connection terminal block.



DM-ND/SD

Connections on the right outside

Welded connections for liquid line, suction and defrost (optional). Threaded connections for hydraulic circuit. Safety valve line.



Installation example

INSTALLED ON THE FURNITURE



ANCHORED AT THE WALL



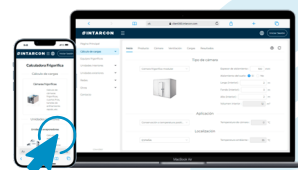
Electronic control (optional)

DM-ND/SD units can feature XM670K electronic control.



- ▶ Remote control keyboard with digital display.
- ▶ Internal clock for programming energy saving cycles and defrosting.
- ▶ Possibility of interconnection and synchronization of up to 8 devices by LAN, managed from a single control.

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FEATURES

Unit supplied without refrigerant charge.	■
Acoustically insulated scroll compressor, mounted on shock absorbers.	■
Casing in pre-painted galvanized steel sheet, with noise insulation, with removable front panel for access to the compressor and the electrical panel.	■
Stainless steel brazed plates heat exchanger. Cooling circuit with liquid receiver, filter, sight glass, high and low pressure switches, and valves to be welded. Safety valve led to the outside.	■
Hydraulic condensation circuit made of copper pipe with threaded connections.	■
Electromechanic control panel with thermomagnetic protection.	■
Hot gas defrosting.	□
Electrical defrosting.	□
Condensation water temperature 5 °C / -10 °C.	□
Built-in water solenoid valve.	□
Built-in liquid solenoid valve with body and coil.	□
Built-in thermostatic expansion valve.	□
Crankcase heater.	□
Low voltage protection (single-phase models).	□
Low voltage and phase sequence protection (three-phase models).	□

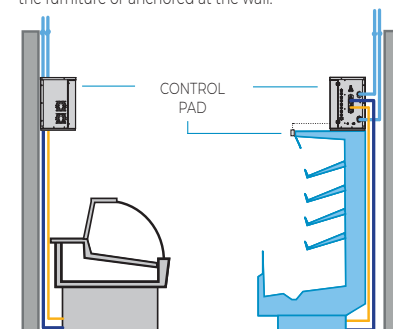
■ As standard □ Optional

Accessories DM-ND/SD units

- ▶ Water solenoid valve supplied separately (+ 183 €).
- ▶ Balance and control valve supplied separately (by demand).
- ▶ Door micro-switch (+ 65 €).
- ▶ Cold room LED light (+ 40 €).

Installation scheme

Waterloop series motor condensers can be installed on the furniture or anchored at the wall.



230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Positive temperature | Hermetic or scroll compressor | R-290

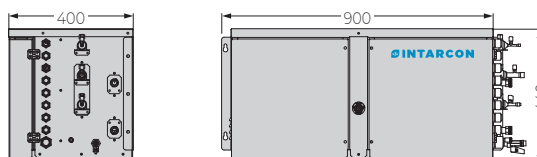
Refrigerant Compressor	Series / Model	Power supply	Compressor (CV)	Cooling capacity (W) ⁽¹⁾ Evaporation temperature			Input power (W)	Max. current (A)	Conden. air flow (litre/hour)	Liq-Gas cooling connection	Hydraulic connection	Pressure drop (kPa) ⁽²⁾	Refrig. charge (g) ⁽³⁾	Weight (kg)	SPL dB(A) ⁽⁴⁾	Price (€)
				-10 °C	-5 °C	0 °C										
R-290 Hermetic	MDM-ND-0006A	230V I+N ~ 50Hz	1/4	399	482	583	250	5,2	115	3/16" - 3/8"	1/2"	2,1	< 500	66	21	
	MDM-ND-0008A	230V I+N ~ 50Hz	1/3	575	674	799	304	5,8	155	3/16" - 3/8"	1/2"	2,7	< 500	66	25	
	MDM-ND-0015A	230V I+N ~ 50Hz	1/2	907	1 050	1 262	496	6,0	240	1/4" - 1/2"	3/4"	2,7	< 500	72	20	
	MDM-ND-0018A	230V I+N ~ 50Hz	3/4	1 126	1 326	1 582	624	6,6	300	1/4" - 1/2"	3/4"	3,4	< 500	73	20	
	MDM-ND-0034A	230V I+N ~ 50Hz	1	1 962	2 404	2 985	1 273	12,9	555	1/4" - 5/8"	3/4"	3,1	< 500	80	36	
R-290 Scroll	MDM-SD-1012A	400V 3N ~ 50Hz	2	2 729	3 266	3 906	1 347	6,4	700	3/8" - 7/8"	3/4"	8,1	< 500	91	38	
	MDM-SD-1017A	400V 3N ~ 50Hz	2 1/2	3 805	4 483	5 366	1 798	7,4	960	3/8" - 7/8"	1"	5,9	< 500	94	38	

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | Negative temperature | Hermetic or scroll compressor | R-290

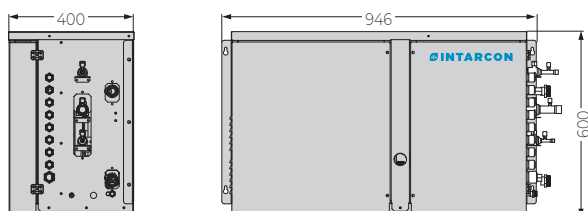
Refrigerant Compressor	Series / Model	Power supply	Compressor (CV)	Cooling capacity (W) ⁽¹⁾ Evaporation temperature				Input power (W)	Max. current (A)	Conden. air flow (litre/hour)	Liq-Gas cooling connection	Hydraulic connection	Pressure drop (kPa) ⁽²⁾	Refrig. charge (g) ⁽³⁾	Weight (kg)	SPL dB(A) ⁽⁴⁾	Price (€)
				-35 °C	-30 °C	-25 °C	-20 °C										
R-290 Hermetic	BDM-ND-0020A	230V I+N ~ 50Hz	3/4	379	492	590	722	464	7,1	165	3/16" - 1/2"	1/2"	3,6	< 500	70	21	
	BDM-ND-0034A	230V I+N ~ 50Hz	3/4	576	853	1 078	1 360	843	10,5	295	1/4" - 5/8"	3/4"	1,3	< 500	78	28	
R-290 Scroll	BDM-SD-1017A	400V 3N ~ 50Hz	2 1/2	1 177	1 554	1 912	2 398	1 515	7,4	525	1/4" - 7/8"	3/4"	6,5	< 500	94	38	
	BDM-SD-1025A	400V 3N ~ 50Hz	4	1 600	2 222	2 786	3 513	2 360	9,4	785	3/8" - 7/8"	3/4"	6,4	< 500	106	42	
	BDM-SD-1037A	400V 3N ~ 50Hz	6	2 313	3 182	3 988	5 033	3 498	12,0	1 145	3/8" - 1 1/8"	1"	8,0	< 500	108	44	

DIMENSIONS

0 series



1 series



Dimensions in mm.

⁽¹⁾ Cooling capacity at nominal performances refer to operation at evaporation temperature -10 °C (PT) and -30 °C (NT), water temperature of 40 °C, super-heating 6 K and 5 K sub-cooling.

⁽²⁾ Condenser pressure drop in the water circuit.

⁽³⁾ A3 refrigerant charge below 500 g, simplified compliance with EN378.

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