

Моноблочная установка для холодильных камер SB-R290

Технические характеристики

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Units easy to be installed and to be managed

The models of the SB R290 range are monoblock units characterized by great versatility of use and accessible to anyone looking for a type of ceiling installation.

The refrigerant charge per circuit is low (<150g) and the refrigerant R290 has a low GWP index.

The smaller models have a single refrigerant circuit and they are available with a remote keyboard. The bigger models have a multiple refrigerant circuits and they are available in master stand-alone version with remote keyboard and dedicated kit and slave version.

Suitable for small rooms, the SB R290 range is composed by 2 lines: the MSB for medium temperatures (max 72 m³ at Tc= +0°C, Tamb= +30°C) and the BSB for low temperatures (max 26 m³ at Tc= -20°C, Tamb= +30°C).

It is possible to have the unit with air or water condensation (for water: plate heat exchanger and water solenoid valve).

Pursuing the objectives of robustness and efficiency, the body of the condensing unit is made of sheet steel like the evaporator contained in a thermally insulated compartment and connected directly to the condenser part.

The reciprocating hermetic compressor and the programmed automatic hot gas defrosting, with cycle frequency, make the SB R290 a

stand-alone machine without the need for recurring maintenance.

The installation of the unit on the ceiling is very easy, the mounting consists of a single hole in which the evaporating part will be inserted, which does not require other connections.

The condensing water elimination system is automatic.

The electrical panel of the SB has an electronic control unit whose operating parameters are already programmed.

The electronic control unit manages the SB and allows the signalling of any anomalies.

The type of installation and the machine control, simple and intuitive thanks to the remote electronic control panel to be installed on the wall to set the desired temperature and visualize possible alarms, make the SB unit easy to be managed.

This range of monoblocs, characterized by remarkable compactness, allows to optimize the useful space inside the cold room, guaranteeing excellent performance, reliability and efficiency.

Standard configuration

- › Hermetic compressor
- › Power supply 220-230/1N~/50 or 380-400/3N~/50
- › Air condensation
- › Frame and panels in prepainted galvanized steel
- › Ceiling installation for covered areas - air cooled condenser (capillary tube) Tmin 20°C - Tmax 45°C
- › Ceiling installation for covered areas - water cooled condenser (thermal expansion valve) Tmin 10°C - Tmax 48°C
- › Max refrigerant charge 150 g for circuit
- › Air or water condensation (plates condenser and water solenoid valve)
- › Expansion type by capillary for air condensation and thermostatic for water condensation
- › Electronic controller Dixell XM670K with sealed contacts of relays
- › Serial output RS485
- › Electric fast connections by plug connectors
- › HP and LP pressure switches with sealed contacts
- › Atex power relays for compressors
- › Fans with thermal protection
- › Without condensate water evaporation drip tray - direct drain line
- › Hot gas defrost
- › Available in master stand-alone or slave version



Personalization options and accessories

Condensation options:

- › Water condensation

Power supply:

- › 220-230/1N~/50 (standard MSB1310-2180-3370 and BSB0870-1710 units)
- › 380-400/3N~/50 (standard MSB5820 and BSB2650 units)
- › 220-230/1N~/60

Accessories kit:

- › Audible and visual alarm
- › Cable kit for transformation MT models "only slave" into master stand-alone
- › Cable kit for transformation LT models "only slave" into master stand-alone

Technical data



	MEDIUM TEMPERATURE UNITS								LOW TEMPERATURE UNITS					
Code	MSB1310Y1AAA	MSB2180Y1AAA	MSB3370Y2AAA	MSB5820Y3ABA	MSB1310Y1WAA	MSB2180Y1WAA	MSB3370Y2WAA	MSB5820Y3WBA	BSB0870Y1AAA	BSB1710Y2AAA	BSB2650Y3ABA	BSB0870Y1WAA	BSB1710Y2WAA	BSB2650Y3WBA
Condensation	Air	Air	Air	Air	Water	Water	Water	Water	Air	Air	Air	Water	Water	Water
Refrigerant	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
Power supply [V/Ph~/Hz]	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	380-400/3N~/50	220-230/1N~/50	220-230/1N~/50	220-230/1N~/50	380-400/3N~/50	220-230/1N~/50	220-230/1N~/50	380-400/3N~/50	220-230/1N~/50	220-230/1N~/50	380-400/3N~/50
HP compressor	0,56	0,9	2 x 0,56	3 x 0,9	0,56	0,9	2 x 0,56	3 x 0,9	0,9	2 x 0,9	3 x 0,9	0,9	2 x 0,9	3 x 0,9
Defrost	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas
PED category	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25
Cooling capacity [Watt] Air: [TC=0°C TA=30°C] Water: [TC=0°C TW=30°C]	1.309	2.179	3.367	5.821	1.385	2.293	3.651	6.123	-	-	-	-	-	-
Cooling capacity [Watt] Air: [TC=-20°C TA=30°C] Water: [TC=-20°C TW=30°C]	-	-	-	-	-	-	-	-	873	1.713	2.653	901	1.791	2.925

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