



INDICATIVE PRODUCT IMAGE

Product file

Code	BD2251MA40P11
Gas	R290
Application	MBP
Series	BD
Expansion	Valve
Exchange	Air
Net weight	87 kg
Gross weight	115 kg
Ped	0
Noise	42.52 dBA 10m
Defrost	Hot gas
Mounting	Wall
Type	Compact
Version	Swab

Compressor

Compressor no.	1
Compressor type	Hermetic
Compressor brand	EMBRACO
Compressor voltage	230/1/50
Compressor displacement	27.80 cm ³

Condenser

Fan-motors no.	2
Fan blade diameter	254 mm
Condenser air flow	1900 m ³ /h

Evaporator

Fan-motors no.	2
Fan blade diameter	254 mm
Air throw	5.00 m
Evaporator air flow	1200 m ³ /h

Absorptions

Power absorbed	1577 W
Current absorbed	6.86 A
Maximum current	12.10 A
Machine electrical supply	230/1/50

Pipe fittings

Condensate drainage	16 mm
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Dimensions

Width	835 mm
Depth	899 mm
Height	773 mm
Width packaging	940 mm
Depth packaging	970 mm
Height packaging	955 mm

Refrigeration capacity table – BD2251MA40P11 – Refrigerant: R290

Ambient temperature	Cell temperature	Cell volume	Capacity
25 °C	-5 °C	22.00 m ³	1899 W
25 °C	0 °C	32.80 m ³	2188 W
25 °C	5 °C	50.00 m ³	2497 W
32 °C	-5 °C	16.10 m ³	1773 W
32 °C	0 °C	24.70 m ³	2051 W
32 °C	5 °C	37.40 m ³	2339 W
43 °C	-5 °C	8.70 m ³	1576 W
43 °C	0 °C	12.90 m ³	1824 W
43 °C	5 °C	21.50 m ³	2090 W

Values referred to :

Suction gas : +20°C

Subcooling : 0K

Superheat : 100%

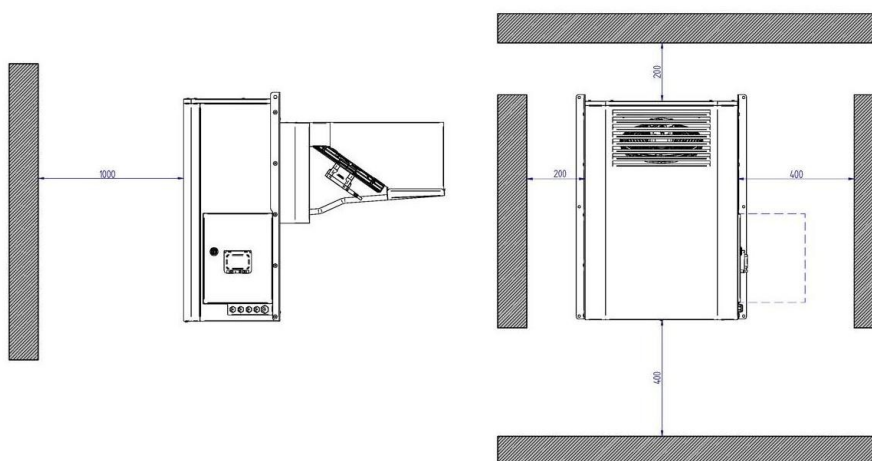
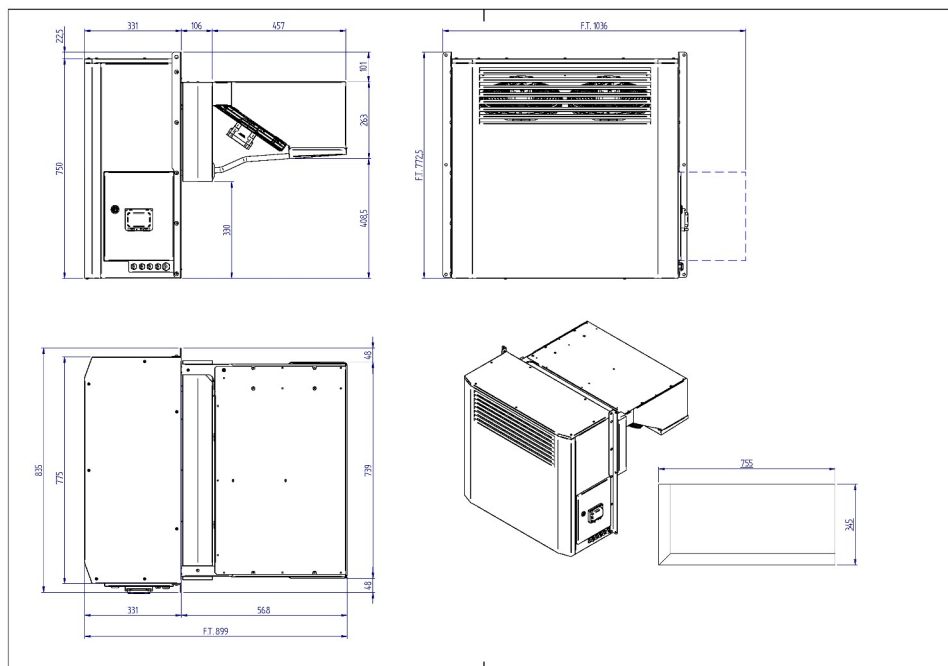
Compressor absorption :

Te -5°C (HT); Tcond +50°C

Te -10°C (MT); Tcond +50°C

Te -30°C (LT); Tcond +50°C

Technical drawings – BD2251MA40P11





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- **Mechanical part main components**
 - Hermetic compressors with thermal motor protection
 - Condenser with Ø5mm tubes with internal spiral rifling
 - Evaporator with Ø5/16" tubes with internal spiral rifling
 - Electronic fan-motors on both condenser and evaporator
 - Mechanical thermostatic valve supplied standard across the entire range
 - Hot gas defrosting
 - Compressor crankcase heater
 - R290 refrigerant charge ≤ 150g per circuit
 - Condensation temperature control (ON/OFF fans for models size 10 + 30; Adjustable 0-10V fans for models size 40 + 60)
 - Condensing water direct discharge
 - Cold room light fixed on the panel under the evaporator
- **Control circuit and electrical part**
 - Safety pressure switch on high pressure side
 - High and low pressure probes
 - Power supply cable L= 2.5 m with wired electrical plug
 - Industrial Plug (2P+E or 3P+N+E) 16 A / 32A
- **ELECTRONIC CONTROL**
 - Rivolution: programmable electronic control with software developed by Rivacold
 - Safety Defrost function
- **STRUCTURE**
 - Self-bearing housing made of galvanized sheet which is coated with epoxy powder
 - Insulation plug for the cell hole included (thickness 100 mm)
- **OPTIONAL**
 - Catephoresis treatment of exchangers (Condenser + Evaporator)
 - Door micro switch with 10m long cable
 - Door heater cable (10m)
 - Accessory required for multiple units installed in the same cold room (1 per unit) – Master/Slave wiring kit (5 m cable)
 - Connection cable for BMS (RTU Modbus Protocol) L=5 m
 - Door resistance cable L = 10m
 - Electrical panel resistance (Ta < -10°C)
 - Remote control panel (10m)