



INDICATIVE PRODUCT IMAGE

Product file

Code	BYWS302MA50P12
Gas	R290
Application	MBP
Series	BYWS
Expansion	Valve
Exchange	Air
Net weight	81 kg
Gross weight	103 kg
Ped	0
Defrost	Hot gas
Mounting	Wall
Type	Compact
Version	Overlapped

Compressor

Compressor no.	2
Compressor type	Hermetic
Compressor brand	EMBRACO
Compressor voltage	400/3/50
Compressor displacement	2 x 16.8 cm ³

Condenser

Fan-motors no.	1
Fan blade diameter	300 mm
Condenser air flow	1200 m ³ /h

Evaporator

Fan-motors no.	2
Fan blade diameter	200 mm
Air throw	6.50 m
Evaporator air flow	1000 m ³ /h

Absorptions

Power absorbed	1490 W
Current absorbed	2.70 A
Maximum current	4.80 A

Dimensions

Width	671 mm
Depth	975 mm
Height	828 mm
Width packaging	765 mm
Depth packaging	1070 mm
Height packaging	980 mm

Refrigeration capacity table – BYWS302MA50P12 – Refrigerant: R290

Ambient temperature	Cell temperature	Cell volume	Capacity	Limitations
25 °C	-5 °C	28.10 m ³	2315 W	-
25 °C	0 °C	41.60 m ³	2662 W	-
25 °C	5 °C	62.70 m ³	3034 W	-
25 °C	10 °C	97.40 m ³	3428 W	-
25 °C	15 °C	159.00 m ³	3842 W	-
32 °C	-5 °C	21.50 m ³	2175 W	-
32 °C	0 °C	31.90 m ³	2503 W	-
32 °C	5 °C	47.90 m ³	2853 W	-
32 °C	10 °C	74.00 m ³	3222 W	-
32 °C	15 °C	121.00 m ³	3611 W	-
38 °C	-5 °C	16.10 m ³	2049 W	-
38 °C	0 °C	24.40 m ³	2359 W	-
38 °C	5 °C	36.80 m ³	2689 W	-
38 °C	10 °C	56.50 m ³	3036 W	-
38 °C	15 °C	91.00 m ³	3400 W	-
43 °C	-5 °C	11.40 m ³	1939 W	-
43 °C	0 °C	18.90 m ³	2233 W	-
43 °C	5 °C	28.50 m ³	2545 W	-
43 °C	10 °C	43.50 m ³	2872 W	-
43 °C	15 °C	69.60 m ³	3215 W	With Troom > 10°C, Max Tamb = +38°C

Values referred to :

Suction gas : +20°C

Subcooling : 0K

Superheat : 100%

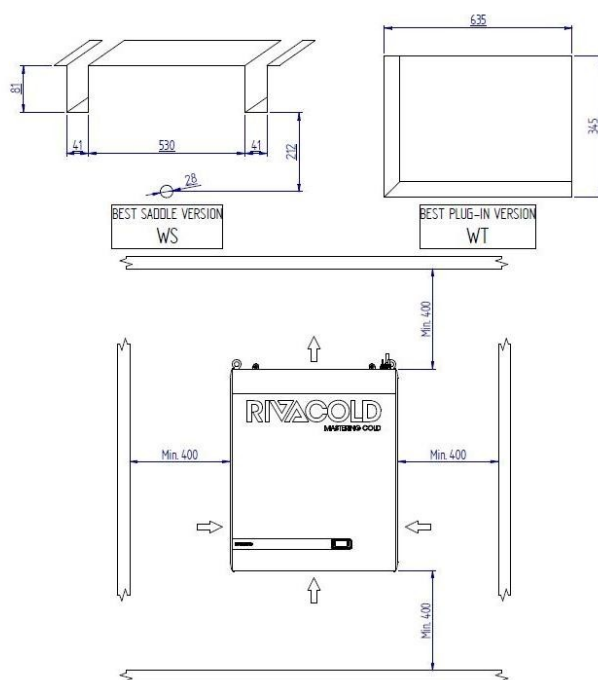
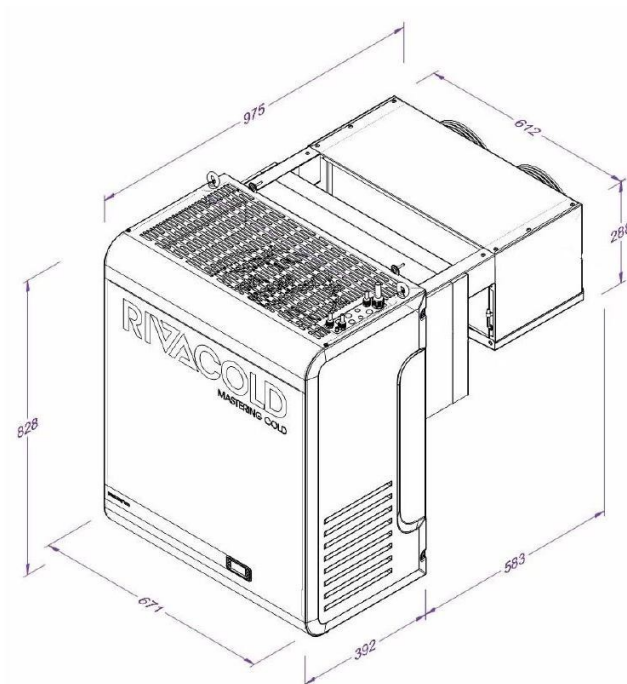
Compressor absorption :

Te -5°C (HT); Tcond +50°C

Te -10°C (MT); Tcond +50°C

Te -30°C (LT); Tcond +50°C

Technical drawings – BYWS302MA50P12





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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
 - Evaporating water tray
 - R290 refrigerant charge $\leq 150\text{g}$ per circuit

- **Control circuit and electrical part**
 - Safety pressure switch on high pressure side
 - Door micro-switch wired with cable L= 2.5
 - Door heater cable on LT models (L = 2.5m)
 - LED cold room light with cable L= 5m
 - Power supply cable L= 2.5 m with wired electrical plug
 - Industrial Plug (2P+E or 3P+N+E) 16 A
 - Industrial Plug (2P+E) 32 A only on BEWx352MA80P11 and BEWx352LA60P11

- **ELECTRONIC CONTROL**
 - Electronic board that can be programmed according to different user requirements
 - Connection cable for BMS (RTU Modbus Protocol) L=5 m
 - integral control panel

- **STRUCTURE**
 - Self-supporting frame in galvanized metal sheet
 - Easily removable housing for a rapid access to the components in case of inspection or maintenance
 - Installation kit complete with screws and washers to secure the packaged system to the wall of the coldroom and sealing putty in strips for insulation

- **OPTIONAL**
 - Plug-in insulation kits supplied separately for saddle models (WS): 100mm, 150mm, 200mm
 - Extension cable kits L=5m and L=10m (coldroom light cable, door heater cable, micro-switch cable)
 - Presetting for Master & Slave (cable L=5m)