



INDICATIVE PRODUCT IMAGE

## Product file

|              |                |
|--------------|----------------|
| Code         | BYWT302MA50P12 |
| Gas          | R290           |
| Application  | MBP            |
| Series       | BYWT           |
| 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 <sup>3</sup> |

## Condenser

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

## Evaporator

|                     |                        |
|---------------------|------------------------|
| Fan-motors no.      | 2                      |
| Fan blade diameter  | 200 mm                 |
| Air throw           | 6.50 m                 |
| Evaporator air flow | 1000 m <sup>3</sup> /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 – BYWT302MA50P12 – Refrigerant: R290

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

### Values referred to :

Suction gas : +20°C

Subcooling : 0K

Superheat : 100%

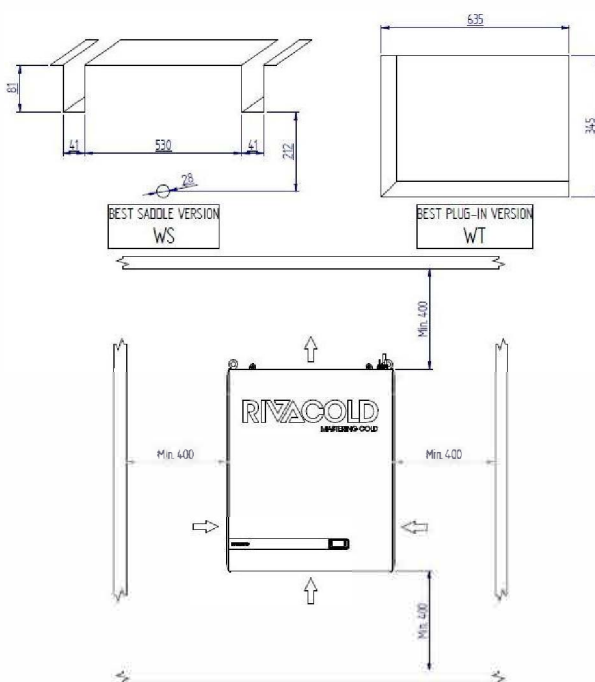
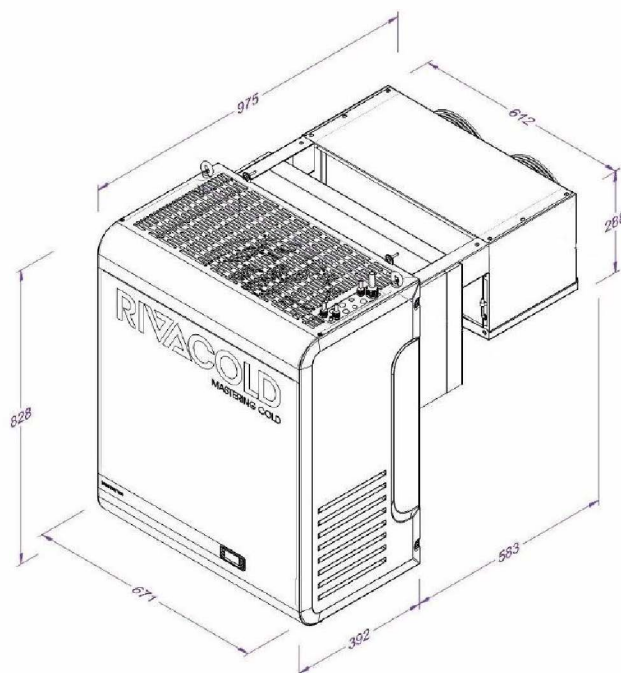
Compressor absorption :

Te -5°C (HT); Tcond +50°C

Te -10°C (MT); Tcond +50°C

Te -30°C (LT); Tcond +50°C

## Technical drawings – BYWT302MA50P12





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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)
  - Accessory required for multiple units installed in the same cold room (1 per unit) – Master/Slave wiring kit (5 m cable)
  - Cataphoresis treatment of exchangers (Condenser + Evaporator)