



INDICATIVE PRODUCT IMAGE

## Product file

|              |                |
|--------------|----------------|
| Code         | BYWS251MA05P11 |
| Gas          | R290           |
| Application  | MBP            |
| Series       | BYWS           |
| Expansion    | Valve          |
| Exchange     | Air            |
| Net weight   | 42 kg          |
| Gross weight | 53 kg          |
| Ped          | 0              |
| Defrost      | Hot gas        |
| Mounting     | Wall           |
| Type         | Compact        |
| Version      | Overlapped     |

## Compressor

|                         |                      |
|-------------------------|----------------------|
| Compressor no.          | 1                    |
| Compressor type         | Hermetic             |
| Compressor brand        | EMBRACO              |
| Compressor voltage      | 230/1/50             |
| Compressor displacement | 6.90 cm <sup>3</sup> |

## Condenser

|                    |                       |
|--------------------|-----------------------|
| Fan-motors no.     | 1                     |
| Fan blade diameter | 254 mm                |
| Condenser air flow | 600 m <sup>3</sup> /h |

## Evaporator

|                     |                       |
|---------------------|-----------------------|
| Fan-motors no.      | 1                     |
| Fan blade diameter  | 200 mm                |
| Air throw           | 6.50 m                |
| Evaporator air flow | 500 m <sup>3</sup> /h |

## Absorptions

|                  |        |
|------------------|--------|
| Power absorbed   | 360 W  |
| Current absorbed | 2.00 A |
| Maximum current  | 3.90 A |

## Dimensions

|                  |        |
|------------------|--------|
| Width            | 421 mm |
| Depth            | 876 mm |
| Height           | 728 mm |
| Width packaging  | 500 mm |
| Depth packaging  | 970 mm |
| Height packaging | 980 mm |

## Refrigeration capacity table – BYWS251MA05P11 – Refrigerant: R290

| Ambient temperature | Cell temperature | Cell volume | Capacity | Limitations                        |
|---------------------|------------------|-------------|----------|------------------------------------|
| 25 °C               | -5 °C            | 4.70 m³     | 590 W    | -                                  |
| 25 °C               | 0 °C             | 7.30 m³     | 689 W    | -                                  |
| 25 °C               | 5 °C             | 11.70 m³    | 797 W    | -                                  |
| 25 °C               | 10 °C            | 20.90 m³    | 914 W    | -                                  |
| 25 °C               | 15 °C            | 36.90 m³    | 1040 W   | -                                  |
| 32 °C               | -5 °C            | 3.30 m³     | 548 W    | -                                  |
| 32 °C               | 0 °C             | 5.00 m³     | 641 W    | -                                  |
| 32 °C               | 5 °C             | 7.80 m³     | 744 W    | -                                  |
| 32 °C               | 10 °C            | 12.90 m³    | 854 W    | -                                  |
| 32 °C               | 15 °C            | 24.60 m³    | 972 W    | -                                  |
| 38 °C               | -5 °C            | 2.40 m³     | 512 W    | -                                  |
| 38 °C               | 0 °C             | 3.60 m³     | 600 W    | -                                  |
| 38 °C               | 5 °C             | 5.40 m³     | 696 W    | -                                  |
| 38 °C               | 10 °C            | 8.50 m³     | 800 W    | -                                  |
| 38 °C               | 15 °C            | 15.40 m³    | 911 W    | -                                  |
| 43 °C               | -5 °C            | 1.80 m³     | 481 W    | -                                  |
| 43 °C               | 0 °C             | 2.60 m³     | 564 W    | -                                  |
| 43 °C               | 5 °C             | 4.00 m³     | 655 W    | -                                  |
| 43 °C               | 10 °C            | 6.10 m³     | 753 W    | -                                  |
| 43 °C               | 15 °C            | 9.60 m³     | 858 W    | With Troom > 10°C, Max Tamb =+38°C |

### Values referred to :

Suction gas : +20°C

Subcooling : 0K

Superheat : 100%

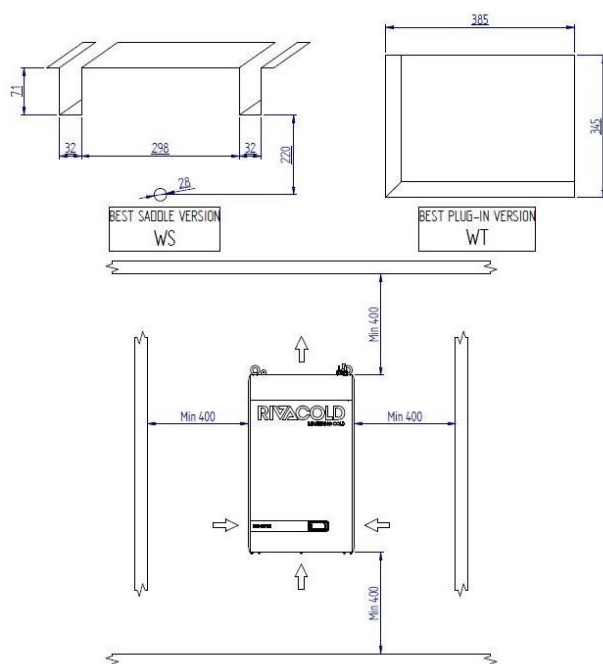
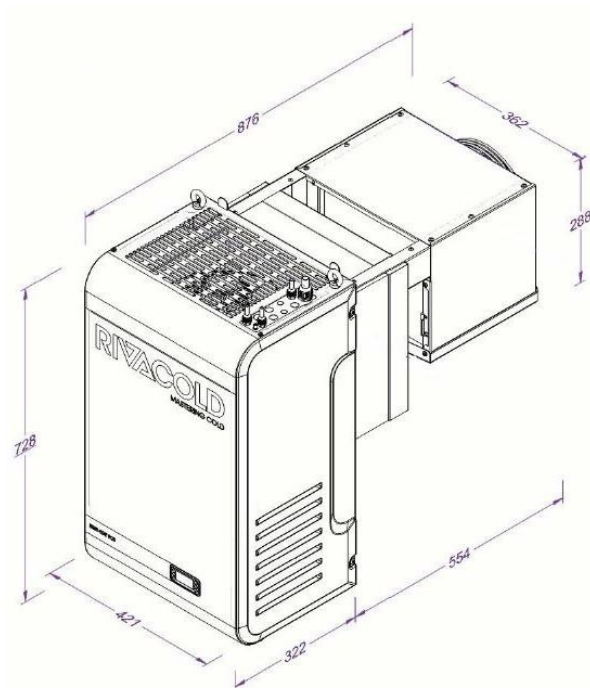
Compressor absorption :

Te -5°C (HT); Tcond +50°C

Te -10°C (MT); Tcond +50°C

Te -30°C (LT); Tcond +50°C

## Technical drawings – BYWS251MA05P11





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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 ≤ 150g 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)