



INDICATIVE PRODUCT IMAGE

## Product file

|              |               |
|--------------|---------------|
| Code         | BD1251MA10P11 |
| Gas          | R290          |
| Application  | MBP           |
| Series       | BD            |
| Expansion    | Valve         |
| Exchange     | Air           |
| Net weight   | 63 kg         |
| Gross weight | 86 kg         |
| Ped          | 0             |
| Noise        | 32.47 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 | 9.99 cm <sup>3</sup> |

## Condenser

|                    |                       |
|--------------------|-----------------------|
| Fan-motors no.     | 1                     |
| Fan blade diameter | 254 mm                |
| Condenser air flow | 800 m <sup>3</sup> /h |

## Evaporator

|                     |                       |
|---------------------|-----------------------|
| Fan-motors no.      | 1                     |
| Fan blade diameter  | 254 mm                |
| Air throw           | 5.00 m                |
| Evaporator air flow | 600 m <sup>3</sup> /h |

## Absorptions

|                           |          |
|---------------------------|----------|
| Power absorbed            | 656 W    |
| Current absorbed          | 2.85 A   |
| Maximum current           | 4.60 A   |
| Machine electrical supply | 230/1/50 |

## Pipe fittings

|                     |       |
|---------------------|-------|
| Condensate drainage | 16 mm |
|---------------------|-------|

## Dimensions

|                  |        |
|------------------|--------|
| Width            | 588 mm |
| Depth            | 899 mm |
| Height           | 772 mm |
| Width packaging  | 660 mm |
| Depth packaging  | 970 mm |
| Height packaging | 970 mm |

## Refrigeration capacity table – BD1251MA10P11 – Refrigerant: R290

| Ambient temperature | Cell temperature | Cell volume          | Capacity |
|---------------------|------------------|----------------------|----------|
| 25 °C               | -5 °C            | 7.80 m <sup>3</sup>  | 880 W    |
| 25 °C               | 0 °C             | 11.80 m <sup>3</sup> | 1020 W   |
| 25 °C               | 5 °C             | 20.20 m <sup>3</sup> | 1178 W   |
| 32 °C               | -5 °C            | 5.50 m <sup>3</sup>  | 818 W    |
| 32 °C               | 0 °C             | 8.40 m <sup>3</sup>  | 955 W    |
| 32 °C               | 5 °C             | 13.20 m <sup>3</sup> | 1102 W   |
| 43 °C               | -5 °C            | 3.10 m <sup>3</sup>  | 720 W    |
| 43 °C               | 0 °C             | 4.50 m <sup>3</sup>  | 842 W    |
| 43 °C               | 5 °C             | 6.80 m <sup>3</sup>  | 979 W    |

### Values referred to :

Suction gas : +20°C

Subcooling : 0K

Superheat : 100%

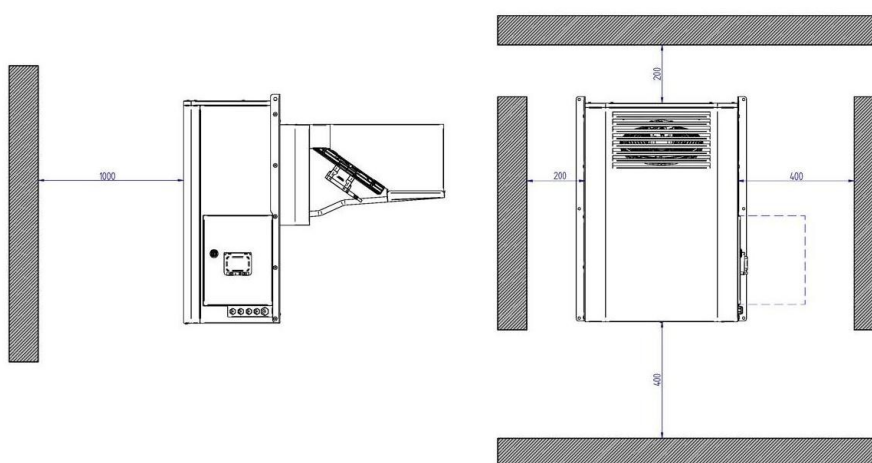
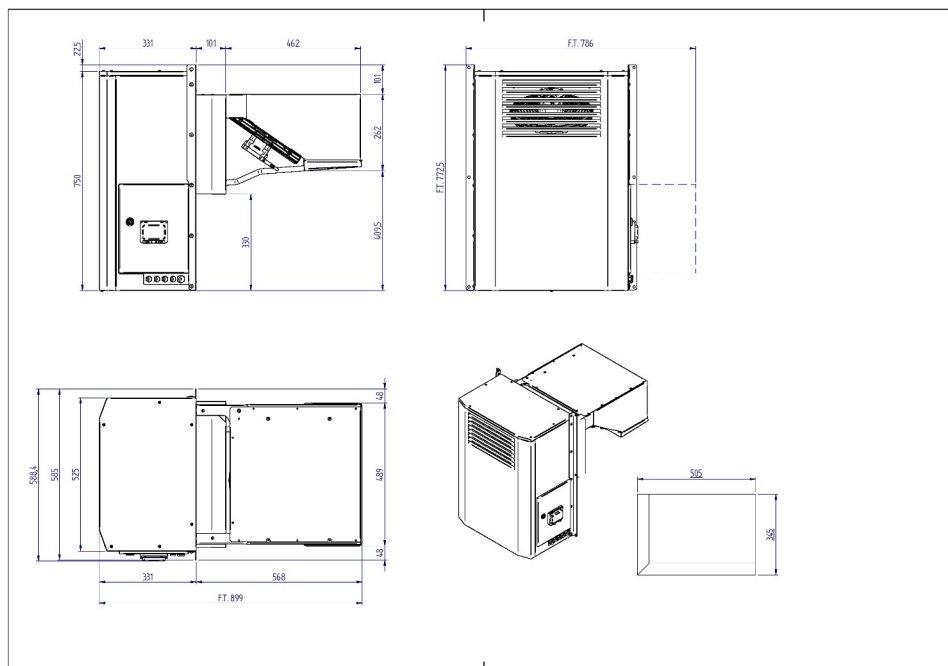
Compressor absorption :

*Te -5°C (HT); Tcond +50°C*

*Te -10°C (MT); Tcond +50°C*

*Te -30°C (LT); Tcond +50°C*

## Technical drawings – BD1251MA10P11





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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)