



### TECHNICAL SPECIFICATION:

Electrical characteristics:

- i. A 240V +/- 10%, 50Hz/60Hz electrical source
- ii. Protection against over-voltage and over-current line conditions

Components:

The unit shall consist of

- i. Anodized aluminium frame and panels made of painted steel.
- ii. The unit includes wheels to facilitate its mobility.
- iii. Main metallic elements in stainless steel.
- iv. Diagram in the front panel with similar distribution to the elements in the real unit.
- v. Hermetic compressor:
  - a. Displacement: 3.4 cm<sup>3</sup>.
  - b. Power: 1/10 CV.
- vi. Accumulator tank to avoid a malfunction of the compressor; Capacity: 1.2 l.
- vii. Liquid separator to prevent liquid from entering the compressor; Capacity: 0.9 l.
- viii. Six stand-alone, ready-to-operate modules, each mounted on a plate.
- ix. Two manometers with temperature scale for the refrigerant:
  - x. High-pressure manometer. Range: -1 to 30 bar / -60 to 80 °C.
  - xi. Low-pressure manometer. Range: -1 to 10 bar / -60 to 50 °C.
- xii. Enthalpy diagram of the R-134a refrigerant.
- xiii. Connection of the components with flexible hoses.
- xiv. The unit has been designed to be used with environmentally friendly CFC-free R-134a refrigerant.
- xv. Cables and accessories, for normal operation.
- xvi. Maintenance Kits

Maintenance Kit containing Vacuum Pump, Hoses, and Manometers.

Maintenance Kit containing Leakage Detector.

Maintenance Kit containing Refrigerant Filling and Evacuation Module.



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Modules: Six stand-alone, ready-to-operate modules, each mounted on a plate:

- i. Module 1: Evaporator as an air-refrigerant heat exchanger and capillary tube:
  - a. Finned tube heat exchanger.
  - b. Fan.
  - c. Capillary expansion tube.
- ii. Module 2: Evaporator as a water-refrigerant heat exchanger and capillary tube:
  - a. Nickel-plated copper coil formed by nine spirals of 1/4" diameter, through which the refrigerant circulates. The heat transmission area is 0.032 m<sup>2</sup>.
  - b. Polypropylene water tank (up to 170 °C) and capacity: 2000 ml.
  - c. Capillary expansion tube.
- iii. Module 3: Condenser as air-refrigerant heat exchanger:
  - a. Finned tube heat exchanger.
  - b. Fan.
- iv. Module 4: Condenser as water-refrigerant heat exchanger:
  - a. Nickel-plated copper coil formed by nine spirals of 1/4" diameter, through which the refrigerant circulates. The heat transmission area is 0.032 m<sup>2</sup> .
  - b. Polypropylene water tank (up to 170 °C) and capacity: 2000 ml.
- v. Module 5:
  - a. Flow meter. Range: 3 – 17.5 l/h.
  - b. Filter for the refrigerant.
  - c. Sight glass for the refrigerant.
- vi. Module 6: Double pressure control and manometers:
  - a. Pressure switch activation pressure
  - b. Low pressure: 0 bar.
  - c. High pressure: 14 bar.

\*\* Pictures are only for reference because this item is customized.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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