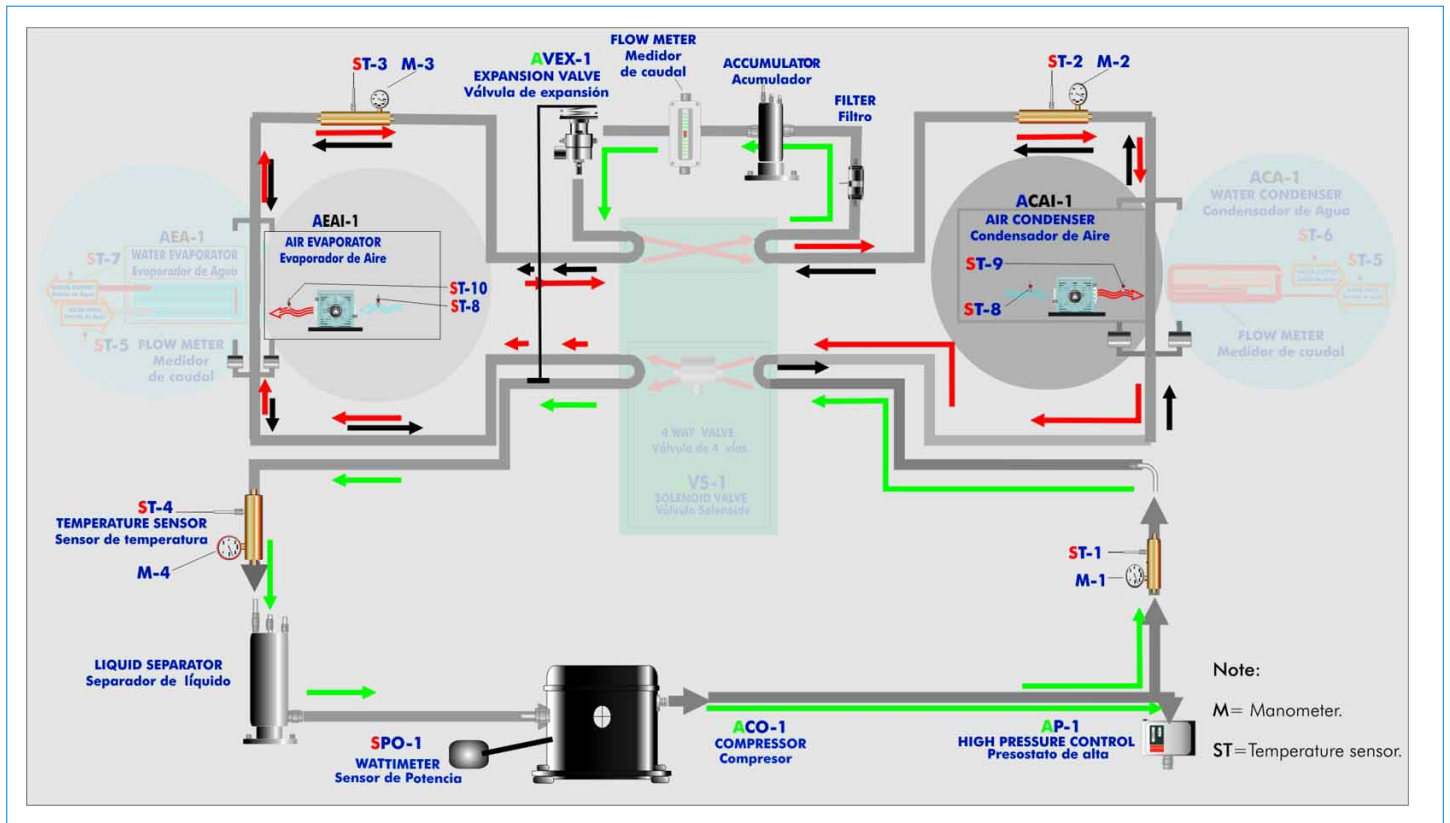


Electronic Console

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PROCESS DIAGRAM AND ELEMENTS ALLOCATION



SPECIFICATIONS

Bench-top unit.

Anodized aluminium structure and panels in painted steel.

Main metallic elements in stainless steel.

Diagram in the front panel with similar distribution to the elements in the real unit.

Cooling compressor.

Air condenser.

High pressure control.

Coolant accumulation tank.

Cooling filter.

Expansion valve.

Air evaporator.

Tank of division of the cooling liquid.

4 Manometers.

7 Temperature sensors:

Temperature sensor, J type (compressor outlet).

Temperature sensor, J type (condenser outlet).

Temperature sensor, J type (evaporator inlet).

Temperature sensor, J type (compressor inlet).

Temperature sensor, J type (room air).

Temperature sensor, J type (condenser outlet/air).

Temperature sensor, J type (evaporator outlet/ air).

Flow meter.

Wattmeter.

Enthalpy diagram of the refrigerant R134a.

Electronic Console:

Metallic box.

Temperature sensors connections.

Selector for temperature sensors.

Digital display for temperature sensors.

Wattmeter display.

High pressure control connection.

Fans speed regulators.

Compressor ON/OFF switch.

Electronic Console ON/OFF switch.

Cables and Accessories, for normal operation.

Manuals: This unit is **supplied with the following manuals:** Required Services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.

EXERCISES AND PRACTICAL POSSIBILITIES

Some Practical Possibilities of the Unit:

- 1.- Determination of the inlet power, produced heat and performance coefficient. Air as heat source.
- 2.- Preparation of performances curves of the unit at different inlet and outlet temperatures. Air as a heat source.
- 3.- Lay out of the steam compression cycle in a diagram P-H and comparison with the ideal cycle. Air as heat source.
- 4.- Preparation of the performance curves of the unit based on the properties of the refrigerant and at different condensation and evaporation temperatures. Air as heat source.

REQUIRED SERVICES

Electrical supply: 220V, 1-phase + neutral + ground, 50 Hz.; or 110V, 1-phase + neutral + ground, 60Hz.; and 1 CV max.

DIMENSIONS & WEIGHTS

THAAAB:

Unit: -Dimensions: 900 x 600 x 500 mm. approx.

-Weight: 75 Kg. approx.

Electronic Console: -Dimensions: 490 x 330 x 310 mm. approx.

-Weight: 15 Kg. approx.

RECOMMENDED ACCESSORIES

For refilling R134a refrigerant and maintenance, we recommend:

- T/KIT1. Maintenance Kit, containing: vacuum pump, hoses and manometers.
- T/KIT2. Maintenance Kit, containing: leakage detector.
- R134a refrigerant (to be acquired by the customer locally).

AVAILABLE VERSIONS

Offered in this catalogue:

- **THAAAB. Air Conditioning Unit (one condenser (air) and one evaporator (air)).**

Offered in other catalogue:

- **THAAAC. Computer Controlled Air Conditioning Unit (one condenser (air) and one evaporator (air)).**

Air Conditioning Units:

- **THA2AC.** Computer Controlled **Air Conditioning Unit** (two condensers (water and air) and one evaporator (air)).
- **THA2AB.** **Air Conditioning Unit** (two condensers (water and air) and one evaporator (air)).
- **THALAC.** Computer Controlled **Air Conditioning Unit** (one condenser (water) and one evaporator (air)).
- **THALAB.** **Air Conditioning Unit** (one condenser (water) and one evaporator (air)).

Refrigeration and Air Conditioning Units:

- **THAR22C.** Computer Controlled **Refrigeration and Air Conditioning Unit** (two condensers (water and air) and two evaporators (water and air)).
- **THAR22B.** **Refrigeration and Air Conditioning Unit** (two condensers (water and air) and two evaporators (water and air)).
- **THAR2LC.** Computer Controlled **Refrigeration and Air Conditioning Unit** (two condensers (water and air) and one evaporator (water)).
- **THAR2LB.** **Refrigeration and Air Conditioning Unit** (two condensers (water and air) and one evaporator (water)).
- **THARL2C.** Computer Controlled **Refrigeration and Air Conditioning Unit** (one condenser (water) and two evaporators (water and air)).
- **THARL2B.** **Refrigeration and Air Conditioning Unit** (one condenser (water) and two evaporators (water and air)).
- **THARA2C.** Computer Controlled **Refrigeration and Air Conditioning Unit** (one condenser (air) and two evaporators (water and air)).
- **THARA2B.** **Refrigeration and Air Conditioning Unit** (one condenser (air) and two evaporators (water and air)).
- **THARALC.** Computer Controlled **Refrigeration and Air Conditioning Unit** (one condenser (air) and one evaporator (water)).
- **THARALB.** **Refrigeration and Air Conditioning Unit** (one condenser (air) and one evaporator (water)).
- **THARLLC.** Computer Controlled **Refrigeration and Air Conditioning Unit** (one condenser (water) and one evaporator (water)).
- **THARLLB.** **Refrigeration and Air Conditioning Unit** (one condenser (water) and one evaporator (water)).

*Specifications subject to change without previous notice, due to the convenience of improvements of the product.



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REPRESENTATIVE: