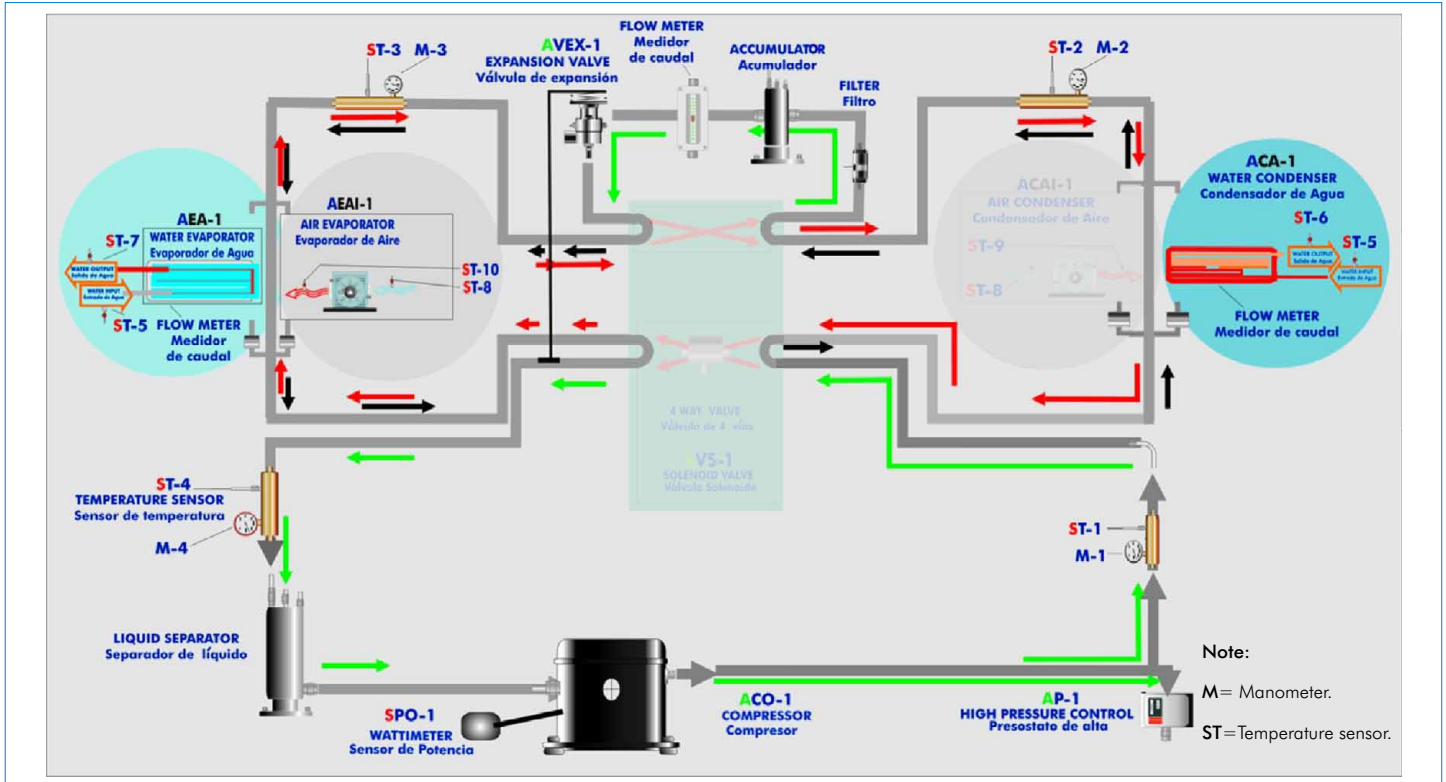


Electronic Console

www.edibon.com

Products
Products range
Units
9.-Thermodynamics
& Thermotechnics

PROCESS DIAGRAM AND ELEMENTS ALLOCATION



ISO 9000: Quality Management
(for Design, Manufacturing,
Commercialization and After-sales service)



European Union Certificate
(total safety)



Certificates ISO 14000 and
ECO-Management and Audit Scheme
(environmental management)



Worlddidac Quality Charter
Certificate
(Worlddidac Member)

SPECIFICATIONS

Bench-top unit.

Anodized aluminium structure and panels in painted steel (epoxy paint).

Main metallic elements in stainless steel.

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

Cooling compressor.

Water condenser.

Water evaporator.

Air evaporator.

High pressure control.

Coolant accumulation tank.

Cooling filter.

Expansion valve.

Tank of division of the cooling liquid.

4 Manometers.

9 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 (water inlet).

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

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

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

Temperature sensor, J type (room air).

Flow meters.

Wattmeter.

Enthalpy diagram of the refrigerant R134a.

Electronic Console:

Metallic box.

Temperature sensors connections.

Selector for temperature sensors.

Digital display for temperature sensors.

High pressure control connection.

Fan speed selector.

Wattmeter display.

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, heat produced and performance coefficient. Water as heat source.
- 2.-Determination of the inlet power, heat produced and performance coefficient. Air as heat source.
- 3.-Preparation of performance curves of the unit with different inlet and outlet temperatures. Water as heat source.
- 4.-Preparation of performance curves of the unit with different inlet and outlet temperatures. Air as heat source.
- 5.-Lay out of the steam compression cycle in a diagram P-H and comparison with the ideal cycle. Water as heat source.
- 6.-Lay out of the steam compression cycle in a diagram P-H and comparison with the ideal cycle. Air as heat source.
- 7.-Preparation of the performance curves of the unit based on the properties of the refrigerant and at different condensation and evaporation temperatures. Water as heat source.
- 8.-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.

Water supply and drainage.

DIMENSIONS & WEIGHTS

THARL2B:

Unit: -Dimensions: 900 x 600 x 500 mm. approx.
-Weight: 85 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:

- **THARL2B. Refrigeration and Air Conditioning Unit (one condenser (water) and two evaporators (water and air)).**

Offered in other catalogue:

- **THARL2C. Computer Controlled Refrigeration and Air Conditioning Unit (one condenser (water) and two evaporators (water and air)).**

OTHER AVAILABLE 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)).**
- **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:

A large, empty rectangular box with a thin black border, intended for a representative to sign or stamp.