CRP134



POSITIVE COLDROOM



Experimental capabilities

- Identification of components of a positive refrigeration system
- Commissioning and verification of operation
- Study of the basic concept of an R134A refrigeration system.
- Study of the thermodynamic cycle on enthalpy diagram.
- Study of regulation
- The system has an industrial rendering
- The system is delivered assembled, loaded and functional

CRP134



Operating principle

The positive cold room allows the study of a positive refrigeration system. The system includes all standard components such as compressor, condenser, expansion valve, evaporator, cylinders, pressure switches.

It is delivered complete, assembled and functional. Students will be able to work on the identification of components, commissioning, adjustment and verification of proper functioning. They will also be able to proceed with the recovery of the fluid and the load (requires tools not supplied with the bench).

The robust design of this equipment makes it perfectly suited for use in schools.

Its anodized aluminum structure on wheels makes it extremely robust as well as great flexibility of integration into your premises. The manufacturing of this equipment meets the European machine directive

Illustrations



The bench is installed on an aluminum profile structure equipped with four directional brake casters. It has an electrical box with general power disconnector and 30mA differential circuit breaker.

1 - Hermetic compressor

Commercial type Refrigerant: R 134 a Cooling capacity: approx. 700 W - Condensation temperature + 43° C - Evaporation temperature +0° C Maximum pressure: 16 bar

2 - Air condenser

Forced convection In copper tube and aluminum fins Mounted on the same chassis as the compressor

Technical specifications

3 - Liquid tank Vertical - Steel $1/4" \oslash$ outlet valve Capacity: 1.5 L

4 - Refrigerant recovery valve

Straight passage \emptyset 1/4 ' Mounted on the bottle

5 - Dehydration station

1/4" Ø solid cartridge dehydrator 1/4" Ø humidity indicator light

6 - Electromagnetic valve

Normally closed Straight passage \emptyset 1/4 "

7 - Thermostatic expansion valve Internal pressure equalization

8 - Air evaporator

Forced convection Copper tube and aluminum fins Electrical power of the Fridge power: about 585 W at dt 7K

9 - Anti-liquid blow bottle

Steel Capacity: 1.5L

10 - Control system

High pressure gauge Low pressure pressure gauge Temperature controller with room temperature display, operation management (evaporator, compressor), room thermostat

ervices required

- Power supply: 230Vac 50 Hz -
- Dimensions: (LxWxH mm): 2000 x 800 x 1800
- weight (Kg): 155
- Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

Documentation

- User's manual
- Technical documentation of the components
- Lab exercises
- Wiring diagram
- Fluidic diagram
- Certificate of conformity CE

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