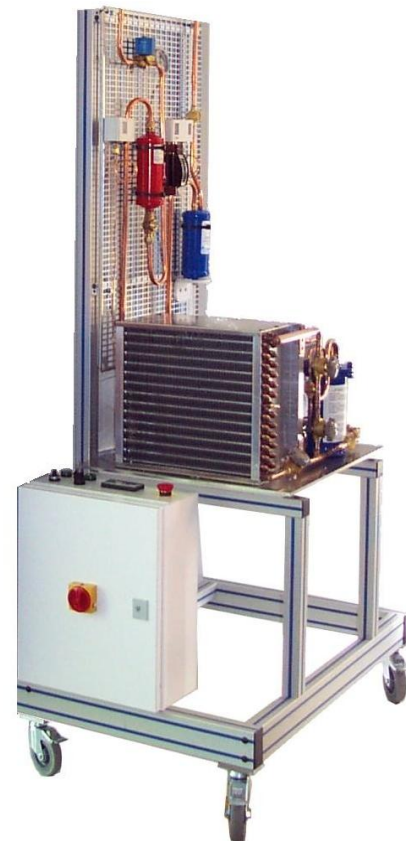


Teacher's kit for positive industrial cold chamber

DESCRIPTION

- The positive industrial cold chamber is delivered complete with instrumentation and with technical documentation as well as suggested applications.
- This unit is designed and manufactured to meet industrial standards.
- Instructions for safe measurement practices included.
- This unit can be used at various levels and in different fields of studies.
- Utilizes refrigerant R134a to comply with new standards.



SUGGESTED APPLICATIONS

Operation of equipment at compression level

- Hermetic compression with piston
- Heat exchanges
- Power
- Coefficients of performances

Fluid circuit

- Assembly and disassembly of the tubes network
- Modifications of design
- Startup

CHP 134

1. Hermetic refrigeration compressor

Commercial type
Refrigerant : R 134 a
- Condensing temperature : + 45° C
- Evaporating temperature :- 10°C
Maximum pressure : 29 bars

2. Air condenser

Forced convection
Copper tubes and aluminium blades
Mounted on the same frame as compressor

3. Liquid water tank

Vertical
Stainless steel
Exhaust valve 3/8" diameter

4. Refrigerant retrieval valve

Membrane made straight passing 1/4" diameter

5. Dehydration step

1/4" diameter solid cartridge dehydrator
1/4" diameter humidity indicator signal

6. Electromagnetic valve

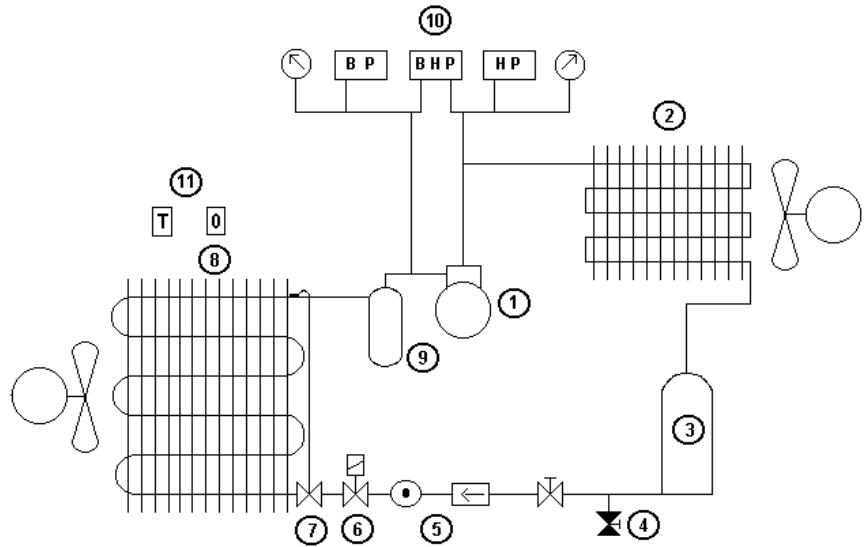
Usually closed
1/4" diameter passing

7. Thermostatic sensor

Internal pressure Regulator
Interchangeable flow caliper orifice

8. Air evaporator

Forced convection
Copper pipes and aluminium blades
- Condensing temperature : +45°C
- Evaporating temperature :-10°C



9. Shock proof liquid bottle

Stainless steel
Diameter 1/2"

10. Control and safety system

High pressure manometer
Low pressure manometer
High pressure gauge
Low pressure gauge
Combined gauge

Cold chamber

Insulation : 100 mm – polyurethane foam
Dimensions 830 x 830 x 2000 mm
Deficiency: 0.346W/m².°C (coefficient k)

Indicator

UTILITIES

Electricity : 230 V single phase
50/60 Hz

DIMENSIONS AND WEIGHT

Length : 1650mm
Width : 1040mm
Height : 2400m
Gross weight: 190kg.