

Multiple-evaporation Refrigeration

DESCRIPTION

- The unit is delivered complete with instrumentation including technical and instruction manuals.
- Designed and manufactured to industrial standards
- This unit may be used at different levels and in various fields of study.
- Uses refrigerant R404A in accordance with current standards.



SUGGESTED APPLICATIONS

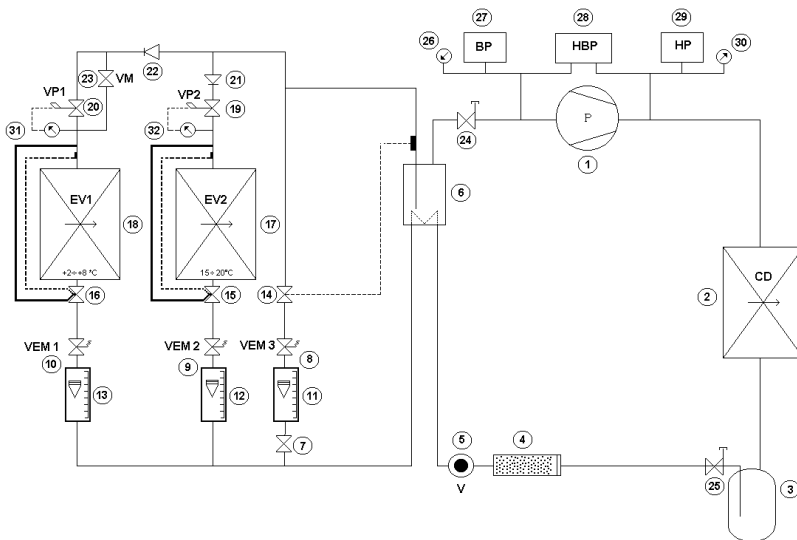
Study of the basic concepts involved in a R 404 A refrigeration installation unit utilizing double evaporation.

Study of thermodynamic cycle using an enthalpic diagram.

Calculation of refrigerating power at condenser and evaporator.

Determination of the global efficiency of the unit.

CRE 102



- 1 Hermetic refrigeration compressor**
 - Refrigerant R404A
 - Refrigerating power : 971 W
 - Evaporating temperature +7,2°C
 - Ambient temperature +32°C
- 2 Air condenser**
 - Fan flowrate : 800 m³/h
 - Electric power : 22 W
- 3 Liquid tank**
 - Capacity : 1.5 dm³
 - Outlet valve – Ø1/4"
- 4 Dehydrator filter : 1/4"**
- 5 Liquid indicator 1/4"**
- 6 Exchanger bottle B th 2**
- 8-9-10 EVR electrovalve**
- 14 Internal equalization thermostatic expansion valve**
- 15-16 External equalization thermostatic expansion valve**
- 17-18 Forced convection- air evaporator**
 - Copper tubes and aluminium blades
 - Refrigerating power : 442 W
- 19-20 Constant pressure valve**
- 21-22 Non-return valve**
- 7-23 Manual valve**
- 26-31-32 Low pressure manometers**
- 27-29 Low pressure controller**
- 28 Low and high pressure controllers**
- 30 High pressure manometer**

UTILITIES

Electricity : 230 V single phase - 50/60 Hz – 8 A

DIMENSIONS

Length : 1400 mm
Width : 850 mm
Height : 1800 mm
Weight : 220 kg