CHK448



NEGATIVE REFRIGERATION KIT





Experimental capabilities

- Identification of components of a negative refrigerating system
- Piping and wiring exercises
- Leak testing of the circuit
- The refrigerating fluid load (requires tooling and fluid not supplied)
- Commissioning and setting (expansion valve, pressure switches ...)
- Study of the basic concept of a refrigeration system running with R448A.
- The system with industrial rendering
- The kit comes with the main components attached to the support. The wiring and piping are not realized. (See photo above)

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Operating principle

The negative refrigeration building kit allows to train students in the realization of a negative refrigerating system. The system includes all the standard components such as compressor, condenser, expansion valve, evaporator, tanks, pressure switches.

The kit comes complete with the main components attached to the support. Students can work on identifying the components, the shaping of refrigerant piping, the wiring of the cabinet, leak testing, the refrigerant load (requires the tooling not supplied with the bench), commissioning , adjusting and verifying the proper operation. The kit is intended to be assembled with the cold rooms type CHB100 of DIDATEC brand.

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

Its structure in anodized aluminum on wheels gives it great strength as well as great flexibility of integration into your premises. The manufacturing of this equipment meets European machine directive



CHK448



Additionnal material supplied

- The kit is supplied with the equipment necessary for the realization of piping and electrical wiring:
- -30mL annealed tube 1/4 "
- -15mL annealed tube 3/8 "
- -30mL of insulation tube 1/4 "
- -15mL of insulation tube 3/8 "
- -100m of cable 3G0.75
- -50m of cable 4G0.75
- -100m of white wire 0.75mm²
- -100m of red wire 0.75mm²

- -100m of black wire 0.75mm²
- -100m of blue wire 0.75mm²
- -100m of black wire 1,5mm²
- -100m of blue wire 1,5mm²
- -100m of ground wire 0.75mm²
- -A batch of refrigeration fittings (nuts ...)
- -A batch of electrical accessories (tip ends, collars ...)

The tooling required to achieve is not included in delivery.

Services required

- Power supply: 230 Vac 50 Hz –10A
- Power supply Type: 1 phase(s) + Neutral + Earth.
- Dimensions: (LxWxH mm): 800 x 800 x 1700
- weight (Kg): 95

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

Recommended equipment

Cold room

• Ref : CHB 100