CHK134



POSITIVE REFRIGERATION KIT





Experimental capabilities

- Identification of components of a positive refrigerating system
- Piping and wiring
- Leak testing of the cold circuit
- The refrigerating fluid load (requires tooling and fluid not supplied)
- Commissioning and setting (pressure reducer, pressure switches ...)
- Study of the basic concept of a refrigeration plant with R134a.
- 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 positive refrigeration building kit allows to train students in the realization of a positive refrigeration system. The system includes all the standard components such as compressor, condenser, expansion valve, evaporator, bottles, 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



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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 1/2 "
- -30mL of insulator 1/4 '
- -15mL of insulator 1/2 "
- -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 1,5mm²
- -A batch of cold 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
- Pedagogical manual
- Technical documentation of the components
- Lab exercises
- Wiring diagram
- Fluidic diagram
- Certificate of conformity CE

Recommended equipment

Cold Room

Ref : CHB 100