# **CRB100**



## HERMETIC COMPRESSOR ELECTRICAL WIRING STUDY



**Experimental capabilities** 

- Study of the starting mode of a single-phase asynchronous electric motor compressor.
- Study of the components necessary to start an engine.
- Wiring of the power supply circuit of the motor compressor.
- Study and wiring of pressure switches and thermostat
- Powering up and testing.
- Pressure switch setting

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### **Operating principle**

Students will first identify the components of the installation and then make the electrical connection and proceed to commissioning.

The robust design of this device makes it suitable for use in schools. The equipment is set up on an Anodized aluminium frame on casters wheels. This gives it great strength and a flexibility of integration into your premises. The manufacture of this equipment complies with the European standard for machinery manufacturing.

### Technical details

The bench has the following elements:

- 1. A hermetic piston compressor
- 2. A high-pressure manometer with double
- temperature / pressure graduation
- 3. A high pressure switch
- 4. A manual valve on the high pressure line

5. Low pressure manometer with double

temperature / pressure graduation

- 6. Low pressure switch
- 7. A manual valve on the low pressure circuit
- 8. A TOR thermostat
- 9. A capacitor
- 10. A klixon
- 11. A starter relay

12. A white light of presence voltage 13. A 30mA differential circuit breaker with unipolar disconnector 14. A voltmeter 15. An ammeter

The terminals of the components are connected to double-well terminals on the front panel. A set of cords is provided to allow students to do the wiring. The circuit is under pressure and functional, the students can do the setting of the pressure switches. It is equipped with a safety valve

#### Services required

- Electrical supply : 230 Vac 50 Hz
- Dimensions: (LxWxH mm): 800 x 600 x 650 weight (Kg): 30

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