

STUDY OF SPLIT SYSTEM AIR CONDITIONER WITH SMALL ROOM



Experimental capabilities

- Study of an air conditioning with separate elements (SPLIT SYSTEM)
- Operation of a refrigeration system
- Role of various organs
- Heat balance

Operating principle

The bench consists of two bodywork modules. The first having the condensing unit and the second comprising the evaporator and which can be placed in a closed chamber simulating a room.

The basic material is industrial

The instrument is equipped with a bench that allows the measurement and adjustment of the operating parameters

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.

This equipment can be used alone or with other compatible equipment from our range (see last section of this document).

Instrumentation

Two pressure measurements on HP and LP refrigerant circuit.

R410 refrigerant fluid flow rate.

Temperature of the characteristic points of the refrigerant circuit and the secondary fluid (air).

Voltmeter and ammeter on the electrical circuit of the compressor used to calculate the power consumption.

Process temperature indicator: A 230V

Services required

- Electrical supply : 230 Vac– 6A
- Dimensions: (LxWxH mm): 2155 x 800 x 1800
- weight (Kg): 180

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
- Certificate of conformity CE