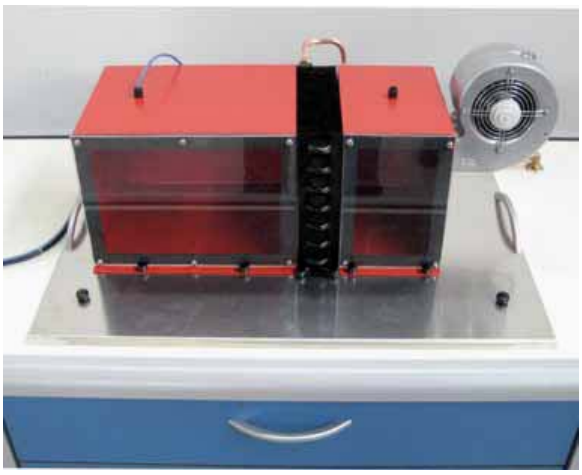
CONDITIONING AND REFRIGERATION

LMC - Air Conditioning Mobile Lab - Code 950110

1. General

Compact laboratory designed for training of 14 years students and over. It is particularly suitable to introduce the main and practical air conditioning applications in both vocational and technical schools.
The trolley is completely mobile and has 5 storage drawers, protecting the equipment in shock-free, molded sponge pods.
You can organize the equipment according to the subjects for quick and easy setup and control of the equipment itself.
It is possible to compose the circuit on the aluminum surface to place on the working top.
Opportunity of fault insertion and detection.
The Air Conditioning Mobile Lab is already equipped with all the necessary feed fittings according to the industrial standards.
It is ideal for all teaching environments and its modular design guarantees both flexibility and adaptability for all the experiments.
The drawers can be pulled out in all its length to allow safe and easily accessible storage of the valuable content.



DIDACTA Italia S.r.l. - Strada del Cascinotto, 139/30 - 10156 Torino - Italy
Tel. +39 011 2731708 - Fax +39 011 2733088 - http://www.didacta.it - E-mail: info@didacta.it

2. Composition and description

Components

- Air Conditioning Chamber
- Hermetic compressor
- Forced Air Condenser
- Thermal expansion valve
- Dehydrating filter
- Defrosting resistance
- No. 2 non-return valves
- Coolant passage visualizer
- Control thermostat for the evaporator air temperature
- Thermometer for measuring the evaporator air temperature
- Manual/automatic installation control panel
- Inner panel for fault insertion
- Stop switch

Cutaway components

To get acquainted with all the circuit components and functions:

- Thermal expansion valve
- Dehydrating filter
- Circuit interception solenoid valve
- Coolant passage visualizer
- No. 1 manometer
- Manual valve

Tools

- Tool set for installation assembly and dis assembly (set of wrenches, screwdrivers, files, hammers,etc.)
- Filling and emptying apparatus for installation starting
- Manometer group
- Tubes and joints
- Balance
- Thermometer
- Hygrometer
- Leak detector

Teaching support

- No. 1 Digital screen with 7” LCD with visual explanation of the characteristics of the Refrigeration Mobile Laboratory (Conditioning) with integrated battery.

- Exercises with results and assembly instructions.

3. Experiments on Civil Air Conditioning

- Planning, performance and procedure control for assembly, starting and commissioning of the air conditioning circuit
- Working knowledge of a civil air conditioning unit as well as of the components being the elements of a conditioning system.
- Assembly and disassembly of the chamber, components and tubes of a conditioning circuit with joints and fittings to screw.
- Installation, wiring and connection of all the units and control elements.
- The installation a conditioning system with completely effective temperature regulation and air conditioned room.
- Fault insertion, detection, check and solving. Detection of any possible leak.

4. Required services

- Electrical power supply: 220 V, single-phase, 50/60 Hz.

5. Weight and dimensions (referred to the complete system)

- Weight: 300 kg approx.
- Overall dimensions: 1500x600x930 mm approx.