

AIR-CONDITIONING SIMULATOR

Mod. SIM-CLR/EV

INTRODUCTION

Educational simulator mod. SIM-CLR/EV represents a proper and natural adaptation to the new demands of labour market requiring high training levels of all the operators of air-conditioning systems installed in great industrial and business complexes. This equipment also includes an industrial controller that enables a detailed analysis of the automatic control system for an air-conditioning installation at the variation of operating parameters. It must necessarily be connected to the PC.

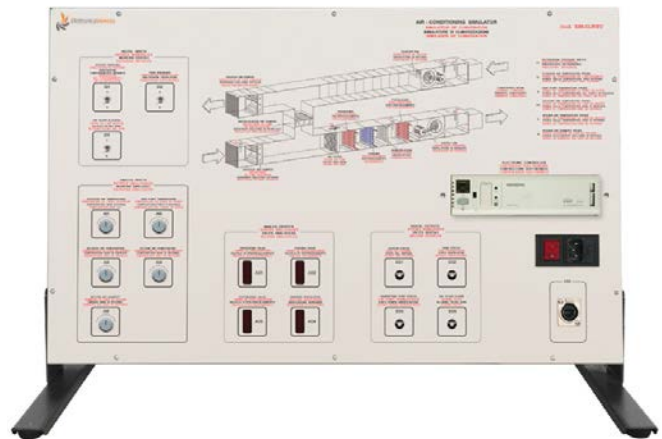
CV

TRAINING PROGRAM

- Studying the transformation the air undergoes when crossing the various sections of an air handling unit, with the aid of the psychrometric chart
- Assessing the air supply conditions to meet the thermohygrometric needs of the room having to be air-conditioned
- Analyzing the operation of temperature and humidity regulators for air-handling unit
- Proportional and ON/OFF control
- Air dampers control according to temperature
- Antifreeze function
- Control of alarms
- Supervision of technical installations

TECHNICAL SPECIFICATIONS

- Colour panel reproducing the air-handling unit
- Configurable universal controller for air conditioning having the following characteristics:
 - 8 universal inputs
 - 4 analog outputs
 - 6 digital outputs
 - 3 control loops
 - Controller-PC interface module
- 5 potentiometers for simulating the following analog inputs:
 - outdoor air temperature
 - dew point
 - supply air temperature
 - return air temperature
 - return air relative humidity
- 4 bargraph LEDs for simulating the following analog outputs:
 - control signal for the motor of pre-heating battery
 - control signal for the motor of cooling/dehumidification battery
 - control signal for the motor of post-heating battery
 - control signal for the motor of air dampers
- 3 switches for simulating the following digital inputs:
 - fans pressure switches
 - air filter pressure switch
 - antifreeze thermostat
- 4 LEDs for simulating the following digital outputs:
 - fans control
 - humidifier pump control
 - pre-heating battery pump control
 - alarm
- System supervision software



Power supply: 230 Vac 50 Hz single-phase - 200 VA
(Other voltage and frequency on request)

Dimensions: 65 x 40 x 12 cm

Net weight: 5 kg

REQUIRED

PERSONAL COMPUTER
- NOT INCLUDED -



SUPPLIED WITH

THEORETICAL-EXPERIMENTAL HANDBOOK

