

Product Name :
Astra Scientific Basic Refrigeration and Air Conditioning Training System

Product Code :
RefrigerationLab0002



Description :

Astra Scientific Basic Refrigeration and Air Conditioning Training System

Technical Specification :

The Basic Refrigeration And Air Conditioning Training System main components are compressor, condenser and receiver plus electrical and communications systems. The models are plugged onto the base unit and connected hydraulically with refrigerant hoses and electrically with cables. Self-sealing couplings reduce the refrigerant loss to a minimum. All components are arranged well visible to allow their operation to be monitored.

The modern and powerful software is an integral part of the training system in the form of hardware/software integration (HSI). It enables the comfortable execution and analysis of the experiments. The experimental unit is connected to the PC via a USB interface. Temperatures and pressures in the system are recorded by sensors and displayed dynamically in the software for system operation and data acquisition.

FEATURES:

- Fundamentals of the refrigeration cycle

- Fundamentals of air conditioning
- Components in a refrigeration system/air conditioning system
- System operation
- Fault finding
- Base unit for the setup of basic experiments in refrigeration and air conditioning technology

SPECIFICATIONS:

- Condensing unit
- Refrigeration capacity: 340W at 0/32°C
- Receiver: 0,7L
- Refrigerant currently available in the market
- Filling volume: 700g
- CO2-equivalent: 0,4t
- Measuring ranges

Temperature: 1x -50...50°C, 3x 0...100°C

Pressure:

1x intake side: -1...9bar

2x delivery side: -1...15bar

- Required for operation

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase



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