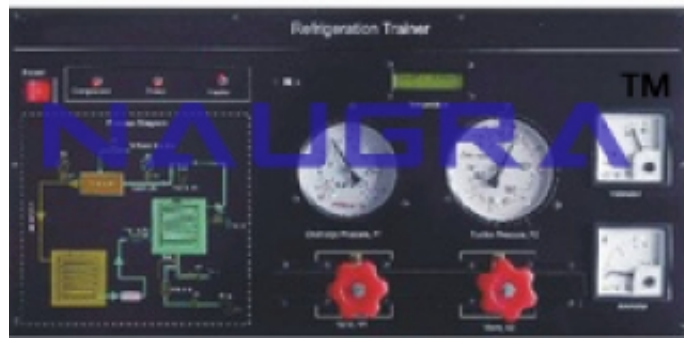


Product Name :

Refrigeration & Air Conditioning Lab Trainer for Vocational Training and Didactic Labs

Product Code :

CON-020-NE

**Description :**

Equipment for Education, Engineering and Vocational Training - Refrigeration & Air Conditioning Lab Trainer - Refrigeration Trainer allows students & industry professionals to learn the fundamentals of Simple Vapour Compression Refrigeration System. The design of this Refrigeration Training System is to allow the user to study this Technology in great detail. The training system introduces various sub-systems with real components. The training system brings a comprehensive view of the entire Refrigeration system. Actual component study and their interconnection, functions, operation, diagnosis, etc. are a part of the scope of training. The construction of the trainer is on a main platform unit mounted on a trolley. This helps the students to place the trainer at their desired position. However, the height of the trainer is as such, the students can comfortably observe the reading while performing the experiments. The unit is opened, in order to provide an open exposure to the students for understanding the importance of each component in the process cycle. In this trainer, students can learn how to calculate the Coefficient of Performance (C.O.P.) of a compressor, based on which he / she can know the capacity of a compressor. Apart from this, students are also able to know the power consumed by the compressor. The front panel also includes Toggle Switches, LCD, Pressure, Dials, Voltmeter and Ammeter. Refrigerant (R134) used is non-poisonous, harmless to body and eco-friendly

Compact and Self-contained

Mounted on trolley for mobility

Digital LCD for Temperature

Multi point temperature measurement

Process Diagram on front panel

Easy component identification

Technical Specifications

Condenser : 10 11 2 Turns

Motor : 230 VAC – 50 Hz, 0.40 Amps, 9 watt and 1360 RPM
Evaporator & Tank : Capacity : 20 litres
Compressor : 1/3 HP, 925 BTU, 150 watt, R134a (Refrigerant), 220 VAC – 50 Hz,
Drier :1/4- Threaded (male)
Pressure Gauge (P1, High) : 0 – 300 PSIG & 0 – 21 kg / cm²
Pressure Gauge (P2, Low) : -30 to 150 PSIG
Ammeter : 0 to 5 Amps AC
Voltmeter : 0 to 300 VAC
Pump : Submersible, 220 VAC, 800 L/H
Heater : 220 VAC, 50 Hz, 500 watt
Rotameter : 0 to 30 LPM, Acrylic body
LCD : 16´2
Temperature Range : 0° -100°C

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