Product name:	Product code:
Re-Circulating Air Conditioning Trainer	RLE-0020



Description

Re-Circulating Air Conditioning Trainer

Technical specification

bank. The heater load is controlled by a dimmer. There are three ducts, each for Fresh Air, Recirculated Air & Exhaust Air. Each duct is fitted with the damper to control an amount of air flowing through it. In order to study Humidification process, a Steamer is also provided.
The refrigeration system consists of a hermetically sealed compressor, air-cooled condenser, expansion device & finned-tube evaporator. The evaporator coil is fitted inside the inlet duct. Refrigerant R-22 is used in the trainer.
The measuring instruments are provided to measure Temperature & pressure of refrigerant cycle, Refrigerant Flow, Power Supplied to compressor & Heater Load.

EXPERIMENTAL CAPABILITIES:

- Demonstration of Air Conditioning Cycle.
- Calculation of coefficient of performance in Air Conditioning
- To study effect of recirculation of Air on performance of Air conditioning system
- Plotting Pressure-Enthalpy Diagram
- To study Humidification & Dehumidification Process
- Plotting Air Conditioning Process on Psychometric Chart

Product Details:

NAUGRA®
Civil Laboratory Equipment Manufacturers and Suppliers India Civil Lab Exportrs India
Email us at: export@civilmechanicalindia.com

Compressor	Hermetically Sealed
Capacity	1 Ton
Power	230 V AC.
Air Pre Heater	500 W, 230 V AC
Pressure Switch	Low / High-Pressure Safety Switch
Thermostat	Mechanical Thermostat for Room Temperature Control
Pressure gauge	0 to 500 PSI
Frame	Made of M.S. Square Tubes & Sheets, Welded & Powder coated.

The re-circulating air conditioning trainer is designed to study different air conditioning processes & performance analysis of refrigeration cycle in Air Conditioning. The trainer consists of an air-conditioned chamber which houses the electric load