Product Name:

Re-Circulating Air Conditioning Trainer

Product Code:

RLE-0020



Description:

Re-Circulating Air Conditioning Trainer

Technical Specification:

Product Details:

Ca posacity
Power AC.
500PVA 230 TV AC
Pows க் luting S-Wittesh sure Safety Switch
Meetinaostat Thermostat for Room Temperature Control
Princes 100 CeP (Saluge
Madeeof 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 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

Temperature & pressure of refrigerant cycle, Refrigerant Flow, Power

The measuring instruments are provided to measure

Supplied to compressor & Heater Load.

trainer.

Elempertisably Sealed

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

Civil Mechanical India

Website: www.civilmechanicalindia.com, Email: export@civilmechanicalindia.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India, Phone: +91-0171-2643080, +91-0171-2601773