

Product Name :
Computerized Recirculating Air Conditioning Trainer

Product Code :
ENGLABINGCAG2700010



Description :

Computerized Recirculating Air Conditioning Trainer

Technical Specification :

FEATURES:

- Determine superheat and sub-cooling
- Determine Coefficient of Performance (COP)
- Determine isentropic and non-isentropic efficiencies of compression stage
- Learn to use Psychometric charts
- Determine enthalpy change in the airflow
- Learn to use a Pressure-Enthalpy chart
- Investigate the effect of air flow rate on COP

SPECIFICATION:

Steam humidifier :

Power consumption: 4kW

Steam capacity: 5,5kg/h, switchable in three stages

Fan :

Power consumption: 167W

Max. Volumetric flow rate: 1150m³/h

Speed: 1000...2600min⁻¹

Pmax: 460Pa

Air preheater: 1kW, switchable in two stages
Air reheater: 2kW, switchable in two stages
Air duct, WxH: 300x350mm
Direct evaporator as air cooler: 6kW

Condensing unit :
Power consumption: 968W at 5/25°C
Refrigeration capacity: 2,3kW at 5/25°C

Refrigerant :
Refrigerant: R134a/22/etc
Filling volume: 3,3kg
CO2-equivalent: 2,1t

Measuring ranges :
Differential pressure: 0...100Pa
Temperature: 5x 0...50°C, 4x -100...200°C
Humidity: 5x 10...90%
Pressure: -1...15bar, -1...24bar (refrigerant)
Flow rate: 8...102L/h (refrigerant)

Required for operation :
230V, 50Hz, 1 phase
230V, 60Hz, 1 phase



Engineering Lab Equipment India