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Product Name :
Computerized Recirculating Air Conditioning Trainer

Product Code :
SCHOOL-REF870010



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

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