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Product Name :
Air Conditioning System Trainer

Product Code :
SCHOOL-REF870001



Description :

Air Conditioning System Trainer

Technical Specification :

The Air Conditioning System Trainer represents a complete air conditioning system with an air duct and a climatic chamber. The main components of the air conditioning system are the air cooler with condensing unit, fan, steam humidifier and air heater. Three motorized ventilation flaps control the air distribution in the air conditioning system. The climatic chamber is equipped with two different heat sources (wet and dry). Temperature and relative humidity are measured at relevant points in the air duct and displayed digitally. For the refrigeration circuit two manometers with integrated temperature scale and a flow meter provide all relevant measurements. FEATURES: Air conditioning system and its components Conditioning room air Effect of a cooling load (dry and wet) Humidification and dehumidification Heating and cooling Mixing different air flows Representation in the h-x diagram for humid air Representation of the circuit in the log p-h diagram SPECIFICATIONS: Air duct with transparent front Air duct with fan, air cooler, humidifier, flaps, air heater and sensors Air-cooled condensing unit Chamber with wet (latent) and dry (sensitive) heat source as cooling load Power consumption: 140W at -10°C Refrigeration capacity: 320W at +5/40°C Humidifier Heating power: 400W Air heater Heating power: 360W 2 heaters in the chamber as cooling load Power output: 0...250W each, freely adjustable Flow cross-section of the air duct WxH: 155x155mm Refrigerant: currently available in the market Filling volume: 1,2kg CO2-equivalent: 0,8t Measuring ranges : Air velocity: 0...2,5m/s Temperature: 0...50°C Rel. humidity: 10...90% Power consumption: 0...600W (condensing unit) Power: 2x 0...300W (cooling load) Pressure: -1...9bar / -1...24bar (refrigerant) Flow rate: 1,5...23,5L/h (refrigerant) Required for operation : 230V, 50Hz, 1 phase 230V, 60Hz, 1 phase

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