

Product Name :
Air Conditioning System Trainer

Product Code :
ENGLABINGCAG2700001



Description :

Air Conditioning System Trainer

Technical Specification :

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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