

**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: 1150m<sup>3</sup>/h

Speed: 1000...2600min<sup>-1</sup>

Pmax: 460Pa

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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**