

Product Name :
Bench Top Mechanical Heat Pump Trainer

Product Code :
ENGLABINGCAG270003



Description :

Bench Top Mechanical Heat Pump Trainer

Technical Specification :

FEATURES:

- Design and operation of an air-to-water heat pump
- Representation of the thermodynamic cycle in the log p-h diagram
- Energy balances
- Determination of important characteristic variables
- Compressor pressure ratio
- Real coefficient of performance
- Dependence of the real coefficient of performance on the temperature difference (air-to-water)
- Operating behavior under load
- Ideal coefficient of performance

SPECIFICATION:

Compressor :
Capacity: 372W at 7,2/32°C

Coaxial coil heat exchanger (condenser) :
Refrigerant content: 0,55L
Water content: 0,3L

Finned tube evaporator :
Transfer area: approx. 0,175m²

Pump :
Max. Flow rate: 1,9m³/h
Max. Head: 1,4m

Hot water tank volume: approx. 4,5L

Refrigerant: R134a/22/A
Filling volume: 1kg
CO₂-equivalent: 0,6t

Measuring ranges :
Pressure: 2x -1...15bar
Temperature: 4x 0...100°C, 2x -100...100°C
Power: 0...6000W
Flow rate: 0...108L/h (water)
Flow rate: 10...160L/h (cooling water)

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



Engineering Lab Equipment India