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Product Name:

Bench Top Mechanical Heat Pump Trainer

Product Code: ENGLABINGCAG2700003



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



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