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Product Name :
Vapour Jet Refrigeration Trainer

Product Code :
SCHOOL-REF870014



Description :

Vapour Jet Refrigeration Trainer

Technical Specification :

FEATURES:

Clockwise and anticlockwise Rankine cycle- energy balances- calculation of the coefficient of performance of the refrigeration circuit.

Thermodynamic cycle in the log p-h diagram – operating behavior under load.

Understanding compression refrigeration systems based on the vapour jet method.

SPECIFICATION:

Vapour jet compressor :

dmin convergent-divergent nozzle: approx. 1,7mm

dmin mixing jet: approx. 7mm

Condenser :

Tank: approx. 3,5L

Pipe coil area: approx. 0,17m²

Evaporator :

Tank: approx. 3,5L

Heater power: 4x 125W

Vapour generator :

Refrigerant tank: approx. 0,75L

Water jacket: approx. 9L

Heater power: 2kW

Pump :

Max. Flow rate: approx. 1,7L/min

Max. Head: approx. 70mWS

Measuring ranges :

Current: 0...2,5A

Voltage: 0...230VAC

Temperature: 10x -20...200°C

Pressure: 2x 0...10bar / 2x -1...1,5bar

Flow rate (cooling water): 6...75g/s

Required for operation :

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase

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