

Product Name :
Computerized Heat Pipe Demonstrator

Product Code :
ENGLABINGCAG330004



Description :

Computerized Heat Pipe Demonstrator

Technical Specification :

FEATURES:

- Calculate convective heat transfers
- Effect of heat conduction and convection on heat transfer
- Effect of free and forced convection on heat transfer
- Effect of different materials on heat conduction
- Effect of sample length on heat transfer
- Effect of heat conduction and convection on heat transfer
- Experiments with still air on free convection
- Functions of the software: educational software, data acquisition, and system operation

SPECIFICATION:

Heater :

Heating power: 30W

Temperature limitation: 160°C

6x fan :

Max. Flow rate: 40m³/h

Nominal speed: 14400min⁻¹

6 samples made of different materials and with different lengths :

2x samples, long

Length dissipating heat: 154mm

Heat transfer area: 48,4cm²

Copper, steel

4x samples, short

Length dissipating heat: 104mm

Heat transfer area: 32,6cm²

Copper, aluminum, brass, steel

Measuring ranges :

Flow velocity: 0...10m/s

Temperature: 8x 0...325°C

Heating power: 0...30W

Required for Operation :

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase



Engineering Lab Equipment India