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Product Name :
Computerized Heat Pipe Demonstrator

Product Code :
SCHOOL-MAS850004



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

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