

Product Code . JA-HTLE-7371

Heat Pipe Demonstrator



Description

Heat Pipe Demonstrator

Specification:

Pipes: Heat pipe made of stainless steel.

Made of copper.

Size: 32mm Dia, 350 mm length (Approx.) Heat Sink: Material Stainless steel.

Working fluid in heat pipe: Distilled water.

Temperature Sensors: RTD PT-100 type

Made of Stainless steel.

Heaters: Nichrome Wire Band Type.

Digital Ammeter: 0-2 Amp.

Digital Voltmeter: 0-300 Volts.

Variac: 0-230 V, 4 Amp.

Digital Temp. Indicator: 0-2000 C, with the multi-channel switch.

Utilities required:

Electricity Supply 1 Phase, 220 V AC, 4 Amp Table for set-up support.




Experimentation:

To plot the temperature distribution along the length of pipes

To demonstrate the super thermal conductivity of Heat Pipe.

To compare its working with the best conductor i.e. Copper pipe & Stainless steel pipe as the same material of construction.

To plot the temperature v/s time response of pipes.

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