

**Product Code . JL-HPD-7371**

## Heat Pipe Demonstrator



### Description

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Heat Pipe Demonstrator

#### **Specification:-**

Pipes: Heat pipe made of stainless steel.

Made of copper.

**Size:-** 32 mm 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.

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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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