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**Product Name :**  
Heat Pipe Investigation Accessory

**Product Code :**  
LBNY-0005-10200018



#### **Description :**

Heat transfer from the simple flat plate may be compared under the same test conditions when either the aluminium rods or heat pipes are inserted. The Heat Pipe Investigation Accessory includes a drilled aluminium plate with integral heater and temperature sensor that is designed to fit the aperture in the Cross Flow Heat Exchanger duct. The flat plate is drilled to accept either finned heat pipes or similar geometry finned aluminium rods.

#### **Experimental Capabilities:**

Investigation of free and forced convective heat transfer to air from a vertical flat plate with and without heat pipe or aluminium rod enhancement.  
Demonstration of heat pipe applications in free and forced convection.

#### **Technical Specification :**

The heat pipes allow demonstration and investigation of the techniques applied in the electronics and computer industries for component and IC cooling.  
The accessory includes a drilled aluminium plate with integral heater and temperature sensor that is designed to fit the aperture in the Cross Flow Heat Exchanger duct.  
The flat plate is drilled to accept either finned heat pipes or similar geometry finned aluminium rods. Heat transfer from the simple flat plate may be compared under the same test conditions when either the aluminium rods or heat pipes are inserted.  
The instrumentation console also limits the active element surface temperature to approximately 100°C.  
Each of the plate plugs directly into the Cross Flow Heat Exchanger instrumentation console and this allows measurement of the low voltage power supplied to the heater and the surface temperatures.



**Laboratory Instrument India**