

## **JLab Instruments**







Product Code . JA-HTLE-7374

## Heat Transfer From Pin - Fin Apparatus

## **Description**

Heat Transfer From Pin - Fin Apparatus

To study the temperature distribution along the length of a pin fin in natural & forced convection.

Calculate Re, Pr & Nu number in forced conviction.

To calculate Gr, Pr & Nu number in natural conviction.

Calculate the value of m & obtain the temperature at various locations along the length of the fin in natural & forced convection.

The experiments can be conducted at various values of input & calculation can be made accordingly.

Calculate the values of heat transfer rate from the fin & the fin effectiveness in natural & forced convection.

**Experimental Setup:** 

Band Heater Assembly.

Duct in which fin is fitted.

Pin type Fin.

Blower Unit with orifice & manometer arrangement for measurement.
Set of thermocouples.
Control Panel :
12 Channel Digital Temperature Indicator
Voltmeter : 0 - 250 V.
Ammeter: 0 - 3 A.
Dimmerstat : 0 - 2 A.
Main's On/Off Switch.

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Blower On/Off Switch.