

**Product Name :**  
Heat Transfer From Pin Fin Apparatus

**Product Code :**  
Heat Transfer0013



### Description :

Heat Transfer From Pin Fin Apparatus

### Technical Specification :

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 convection. To calculate  $Gr$ ,  $Pr$  &  $Nu$  number in natural convection. 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. Blower On/Off Switch.