



HEAT TRANSFER FROM PIN FIN APPARATUS-



EXPERIMENTATION:

To study of temperature distribution along the length of fin in both natural & forced convections.

DESCRIPTION:-

- Fins are used at various places to provide heat conducting surface to reduce the temperature of attached surface. The apparatus is designed to study the heat transfer in a pin type fin.
- The apparatus consists of pin type fin fitted induct on suction side of blower. Duct is provided with bell mouth entrance. One end of fin is heated by heater and heat flows to the another end. Orifice is fitted on delivery side of blower to measure the air flow rate. Heat input and temperature distribution along the fin is measured on control panel.

FEATURES:-

- Fin of brass materials is provided
- Five thermocouples to determine the temperature distribution along the length of fin.
- A range of experiments in both natural and forced convection.
- Complete panelized instruments for electrical control and measurements.

Corporate Office:

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I.T. PAN No. : AABCE 4018L
IEC No. : 0813026598 Dt. 04/03/2014
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TAN No. : AHME00572F



SPECIFICATIONS :-

- Fin - 15 mm dia (approx) 15 cm. Long (approx).
- Duct size - 15 cm x 10 cm x 100cms long (approx)
- Blower of suitable capacity with 1 H.P. single phase motor.
- Control panel comprising of :
 - Voltmeter - 0 - 100/200 volts.
 - Ammeter - 0 - 2 amp.
 - Dimmer stat for heater 0-230 volts 2 amp.
 - Temperature indicator - 0 - 300°C with 1°C least count. Using chromel alumel thermocouples, provided with cold junction compensation.
- Orifice meter on blower outlet with water manometer

SERVICE REQUIRE:-

- 230 V.AC. Stabilized supply with the product.
- Space area of 0.6 m x 0.5m at working height

An instruction manual is supplied along with the equipment which describes the apparatus and procedure of experimentation.

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