FADAK
LAB EQUIPMENTS

HT-001 HEAT TRANSFER THROUGH COMPOSITE WALLS

RANGE OF EXPERIMENTS TO BE CARRIED OUT:

1. To determine total thermal resistance
2. To plot temperature gradient along composite wall structure.
3. The experiments can be conducted at various values of input & calculation canbe made accordingly.
4. To plot Heat flux Vs thermal conductivity in composite structure.

TECHNICAL DESCRIPTION :

The apparatus consists of a central heater sandwiched between two mica sheets. Three types of slabs are provided on both sides of heater which forms a composite structure. A small hand press frame is provided to ensure the perfect contact between the slabs. Auto transformer is provided for varying the input to the heater & measurement of input is carried out by a voltmeter, ammeter.

Thermocouples are embedded between interfaces of the slabs, to read the temperature at the surface.

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

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DIMENSIONS AND WEIGHT :

Size :1.5 m.(L)x 1.0 m(W) X 0.7m (H) , Table Top

Weight :Approx. 70 Kg

SERVICE REQUIRED :

230 v Ac Supply 50 Hz

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual

OPTIONAL FACILITY:Data logging Facility

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