## Features

- Compact, comprehensive, sturdy design
- Fully instrumentation for experimentation of Heat transfer.
- Direct reading of temperature, voltmeter, and ammeter measurement.
- Demonstration of heat transfer through composite wall apparatus.
- Fault Trainer as optional attachments.

## System Description

Tesca Thermal Conductivity through Metal Walls Apparatus consist of three slabs of different materials & different thickness. The three slabs are fixed together using nuts & bolts. Electrical heaters give heat energy to this slab unit. Temperature indicator & sensors are used for accurate temperature measurement. For better result the experiment console is placed inside a wooden box having glass at one side. Study of temperature distribution across the width of the composite wall & over all thermal conductances can be easily demonstrated & calculated with this trainer.

## List Of Experiments

- Calculation of thermal conductance & different heat distribution in composite wall.
- Plotting of heat distribution across the width of composite walls.

## System Components

- Slab: Size: 150 mm dia. 6 mm thickness
- Material: MS, Brass & Asbestos / wood.
- Electric Heaters.
- Digital Temperature Indicator with Thermocouples (0-400°C) Or RTD (PT-100) – 8 channel.
- Heater controller – Variable Transformer of 2 Amps rating.
- Digital voltmeter, Ammeter.
- Base frame – Made up of ms & duly painted.
- Control Panel - for mounting of all indicators.
- Electrical switches & wiring

## Optional Accessories

- Fault Trainer.
- Data logging software

## Operation & Maintenance Manual

- Self-explanatory operating & maintenance manual will be provided. This will include Theory, operating procedure, standard results, and maintenance procedures.

## Services Required At Site

- Electric Supply 220V-240V 50Hz. With proper earthing.

Note: Specifications are subject to change.

**Tesca Technologies Pvt. Ltd.**
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