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Product Name : Heat Transfer in Forced Convection for engineering schools	Product Code : HTL008
Description :	
Heat Transfer in Forced Convection, technical teaching equipment for engineering	
Our company offers best quality Heat Transfer in Forced Convection at an affordable market price. The apparatus offered by us is utilized for measuring average surface heat transfer coefficient or the Reynolds number for a pipe losing heat under forced convection conditions. Manufactured under strict supervision in accordance with industry set norms and parameters, this apparatus is appreciated by the clients for compact design, seamless finishing and longer functional life.	
Description:	
 The apparatus consists of blower unit fitted with the test pipe. 	
 Nichrome wire heater surrounds the test section. Four Temperature Sensors a 	are
embedded on the test section, two placed in the air stream at the	

- entrance and exit of the test section to measure the inlet and outlet air temperature.
- Test pipe is connected to the delivery side of the blower along with the orifice to measure flow of air through the pipe.
- Constant heat flux is given to pipe by an electric heater through a variac and measured by Digital Voltmeter and Digital Ammeter.

Experimentation:

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- To determine average surface heat transfer coefficient for a pipe by forced convection.
- Comparison of heat transfer coefficient for different airflow rates and heat flow rates.
- To plot surface temperature distribution along the length of pipe.

Utilities required:

- Electricity Supply: 1 Phase, 220 V AC, 10 Amp.
- Floor area of 1.2 m x 0.5 m.

Technical Specifications:

- Test section: Horizontal, externally heated
- Diameter: 28 mm (approx.)
- Length: 400 mm (approx.)
- Blower: FHP of Standard make
- Heater: Nichrome Wire
- Digital Voltmeter: 0-300 Volt
- Digital Ammeter: 0-2 Amp
- Variac: 0-230 V, 2 Amp
- Digital Tem.Indicator: 0-3000C, with multi-channel switch
- Temperature Sensors: RTD PT-100 type
- Instruction Manual: An english instruction manual will be provided along with the Apparatus

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Heat Transfer in Forced Convection

Naugra Export

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