



Product Code . JA-HTLE-7375

Heat Transfer In Forced Convection

Description

Heat Transfer In Forced Convection

Description:

The apparatus consists of blower unit fitted with the test pipe.

Test pipe is connected to the delivery side of the blower along with the orifice to measure flow of air through the pipe.

Four Temperature Sensors 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.

Nichrome wire heater surrounds the test section.




Constant heat flux is given to pipe by an electric heater through a variac and measured by Digital Voltmeter and Digital Ammeter.

Experimentation:-

Comparison of heat transfer coefficient for different airflow rates and heat flow rates.

To determine average surface heat transfer coefficient for a pipe by forced convection.

To plot surface temperature distribution along the length of pipe.

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