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Product Name :
Finned Tube Bundle In Cross Flow

Product Code :
LBNY-0005-1020009



Description :

The Finned Tube Bundle In Cross Flow accessory includes a clear plastic plate that is designed to fit the aperture in the Cross Flow Heat Exchanger duct. An electrically heated finned active element with an integral surface thermocouple is supplied which may be inserted in place of the removable tube in the centre of each row. The plate consists of a four row finned tube bank with a removable finned tube in the centre of each row. Replacing the removable tube in each row in turn in the tube bundle allows the variation in heat transfer coefficient in a tube bundle to be investigated.

Experimental Capabilities:

Steady state determination of the mean surface heat transfer coefficient for finned tubes in the 1st , 2nd 3rd and 4th rows of a Finned Cross Flow Heat Exchanger.
Investigation of the effect of external fins on the heat transfer watt density of plain tubes in cross flow.

Technical Specification :

An electrically heated finned active element with an integral surface thermocouple is supplied which may be inserted in place of the removable tube in the centre of each row
The plate consists of a four row finned tube bank with a removable finned tube in the centre of each row. The finned active element plugs directly into the Cross Flow Heat Exchanger instrumentation console and this allows measurement of the low voltage power supplied to the heater and the surface temperature.
Replacing the removable tube in each row in turn in the tube bundle allows the variation in heat transfer coefficient in a tube bundle to be investigated.
The instrumentation console also limits the active element surface temperature to approximately 100°C.



Laboratory Instrument India