



FINNED TUBE BUNDLE in CROSS FLOW H352C



Year 1
study

Description

The accessory includes a clear plastic plate that is designed to fit the aperture in the Cross Flow Heat Exchanger H352 duct. The plate consists of a four row finned tube bank with a removable finned tube in the centre of each row. 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. 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 finned active element plugs directly into the Cross Flow Heat Exchanger H352 instrumentation console and this allows measurement of the low voltage power supplied to the heater and the surface temperature. The instrumentation console also limits the active element surface temperature to approximately 100°C.

Related Laws/Applications

- Cross Flow Heat Exchangers
- Turbulent Flow
- Thermal Conductivity
- Surface Heat Transfer Coefficient
- Flow Velocity
- Reynold's Number

Learning capabilities

- Investigation of the effect of external fins on the heat transfer watt density of plain tube bundles in cross flow.
- 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.

Technical Specification

- 14 Copper finned Tubes
- Equilateral Triangle Pitch: 30mm
- Active Element Length: 55mm

Essential Ancillaries

- H352

Recommended Ancillaries

- H352A
- H352B
- H352D
- H352E
- H352F
- H352G

What's in the Box?

- 1 x H352C
- Instruction manual
- Packing List
- Test Sheet

You might also like

- H352A
- H352B
- H352D
- H352E
- H352F
- H352G

Weights & Dimensions

- Weight: 6.5 kg
- Length: 210mm
- Width: 80mm
- Height: 200mm

Essential Services

- H352

Ordering information

To order this product, please call PA Hilton quoting the following code:
H352C

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