



THE LAB EQUIPMENT

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Product Name :

Cross Flow Heat Exchangers

Product Code :

SLE/EA/29



Description :

- A variable slide valve controls the air flow.
- These enable students to measure the static pressure difference across the rods.
- The copper element is of known thermal capacity and includes a built-in thermocouple.
- The equipment allows students to quickly assess heat transfer rates by forced convection.
- They monitor the rate of cooling of a body of known thermal capacity in an air flow.
- It is a horizontal wind tunnel with a contraction cone, a working section, a diffuser, a constant speed fan, and an exhaust with silencer.
- A second thermocouple at the inlet to the wind tunnel measures the temperature of air entering the heat exchanger.
- Pitot traverse can measure air velocity at any vertical point in the working section, either before or after the rods.
- The working section includes a series of rods arranged in a matrix and at right-angles to the direction of air flow. To do experiments, students can remove any one of these rods and replace it with a cylindrical copper element.
- The base of the working section includes two static pressure tappings: one before the rods and one afterwards.

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