

Product Name :
Combined Convection and Radiation

Product Code :
ALABS-A104-310

ALTEC™

Description :

Combined Convection and Radiation

A small scale accessory that allows experimental investigation of both natural and forced convection from a heated cylinder in a cross-flow configuration. The surface temperature of a duct mounted, 10mm diameter matt black cylinder may be varied over a wide range; thereby allowing the increasing effects of radiant heat transfer to be investigated as the temperature is increased.

A variable velocity airflow within the small diameter circular duct allow the effects on convective heat transfer from the cylinder to be investigated over the range of 0 to approximately 8m/s. An integral thermocouple on the surface of the electrically heated cylinder allows surface temperature to be measured at all operating conditions. This combined with a duct-mounted thermocouple, heater input power measurement and in duct air velocity measurement allows all of the relevant parameters to be recorded.

Specification:

- A small scale accessory that allows

experimental investigation of both natural and forced convection from a heated cylinder in a cross-flow configuration. The surface temperature of a duct mounted, 10mm diameter matt black cylinder may be varied over a wide range; thereby allowing the increasing effects of radiant heat transfer to be investigated as the temperature is increased.

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