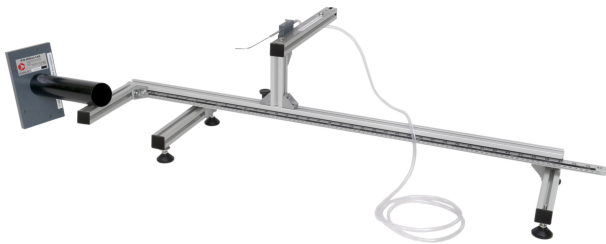




ROUND TURBULENT JET INVESTIGATION F100D



Year 1
study

Features

- Simple attachment to F100 base unit

Description

The Optional Round Turbulent Jet Investigation F100D components have been designed for operation with the Hilton Airflow System F100. The components allow students to quantitatively investigate the shear and mixing regions of a submerged turbulent jet. A round parallel tube with a sharp edged discharge is used to create a turbulent jet using the air from the F100. A pitot tube is attached to a measuring frame that allows the device to be traversed horizontally and axially over the whole flow field. By this method the velocity profile at various axial distances from the jet, the pressure loss and entrained mass may be investigated.

Related Laws/Applications

- Uniform Velocity
- Viscous Drag
- Submerged Turbulent Jet
- Velocity Distribution
- Similarity of profiles
- Momentum Flux

Learning capabilities

- Investigate the Shear and mixing regions of a submerged turbulent jet
- Investigation of the velocity profile and decay of a round submerged turbulent jet
- Momentum Conservation in the Jet

Technical Specification

- Jet internal diameter: 50mm
- Pitot tube travel: Up to 550mm
- Measuring track with feet: 1000mm long

Essential Ancillaries

- F100
- F100A

What's in the Box?

- 1 x F100D on measuring track
- 2m PVC Hose
- 1 x Ruler
- Instruction manual
- Packing List
- Test sheet

Weights & Dimensions

- Weight: 8 kg
- Length: 1200mm
- Width: 500mm
- Height: 250mm

Essential Services

- F100

Ordering information

To order this product, please call PA Hilton quoting the following code:
F100D

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COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS