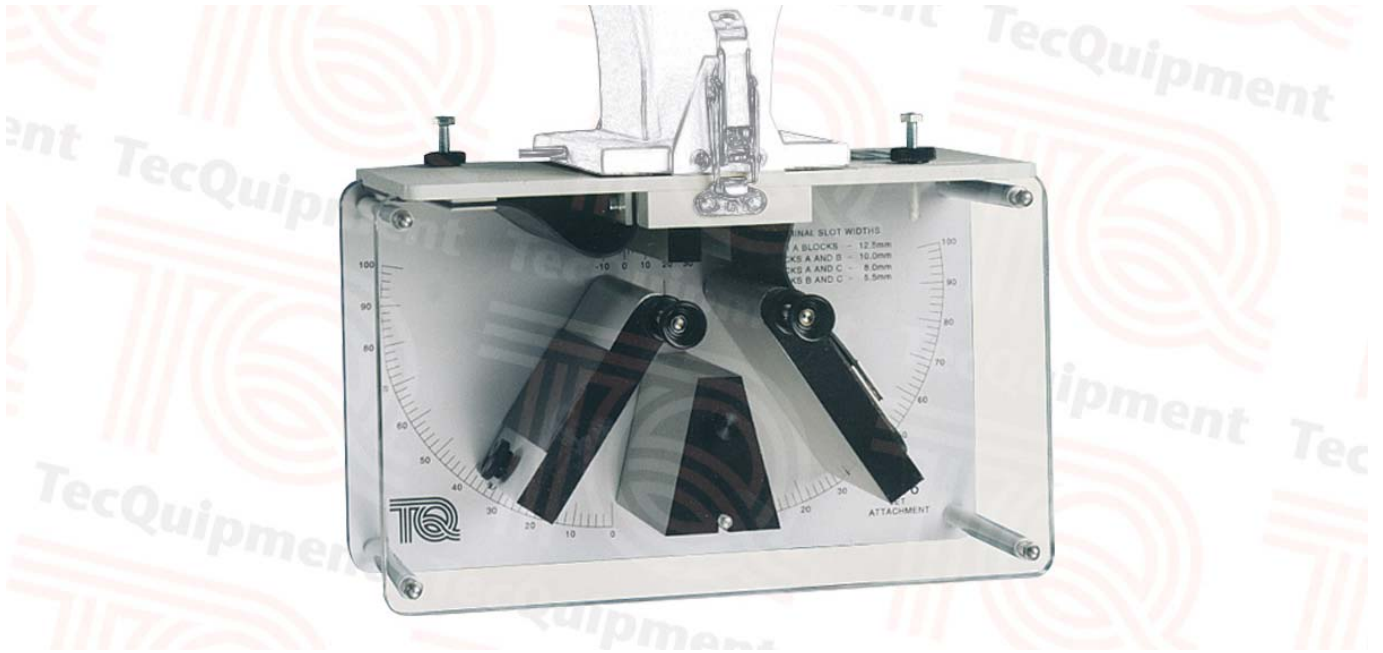


AF16

Jet Attachment

Allows students to investigate the Coanda effect and a fluidic flip-flop



- One of a series of eight experiment modules that fits to the Modular Air Flow Bench (AF10)
- Shows an example of how the phenomena of fluid mechanics can be exploited to perform a useful task – a fluidic flip-flop
- Toggle clamp connections to the Modular Air Flow Bench contraction for quick and easy fitment
- Transparent fronted test duct with clearly printed scales allows the experiment to be clearly seen and components accurately positioned
- Effectively demonstrates the Coanda effect

AF16

Jet Attachment

Description

This module consists of an aerodynamically shaped nozzle from which a jet of air emerges. This flows against a wall to which it attaches. The wall may be rotated to show the deflection of the jet through large angles due to the Coanda effect. A second wall may be introduced at the other side of the jet, which may be switched from one side to the other, as is done in a fluidic flip-flop type switch. The effect of sealing the walls and adding a central splitter to the device are also investigated.

Standard Features

- Supplied with a comprehensive User Guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives

Essential Base Unit

- Modular Air Flow Bench (AF10)

Experiments

- Demonstration of the Coanda effect
- Demonstration of the fluidic flip-flop

Specifications

Packed dimensions and weight:
0.2 m³; 10 kg

Operating Conditions

Operating environment:
Laboratory

Storage temperature range:
-25°C to +55°C (when packed for transport)

Operating temperature range:
+5°C to +40°C

Operating relative humidity range:
80% at temperatures < 31°C decreasing linearly to 50% at 40°C

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