

MP 115 COMPACT CENTRIFUGAL FAN TEST SET



GENERAL DESCRIPTION

This is a bench top unit for studying the small centrifugal fan characteristics.

The unit consists of a small industrial centrifugal fan with a backward blade impeller and a motor on a steel base, an advanced inverter, inlet and outlet ducts, and measuring instruments. An interchangeable forward blade impeller is provided for comparison of operating characteristics.

Instruction manual is also included.

EXPERIMENT CAPABILITIES

- Flow rate vs pressure.
- Fan input, output and overall efficiency.
- Effect of speed on fan performance.
- Comparison of backward and forward blade impellers.

TECHNICAL DATA

- Fan ratings:
 - Maximum flow rate : 10 m³/min
 - Maximum pressure : 0.5 kPa
- Inlet duct : Transparent with flow straighteners and inlet orifice
- Outlet duct : Transparent with flow straighteners and damper
- Measuring instruments
 - Air flow rate : Inlet orifice and inclined water manometer
 - Differential pressure across fan : Twin inclined water manometers (one for airflow rate), 0-450 mm x 1 mm graduation, multiple slope 1: 10, 1:5, 1:2 and 1:1
- Fan speed and motor input power : Advanced inverter
- Temperature : Thermometer
- Accessories : Forward blade impeller and barometer
- Software for data display and analysis by computer (separately supplied).
- Power supply : 220V 1Ph 50Hz. Other power supply is available on request.

OPTIONAL EQUIPMENT

- MP 100-010 Anemometer for flow rate measurement instead of orifice and inclined water manometer

Net (unpacked) shipping dimensions WxLxH : 64 x 101 x 55 cm
Net weight : Approx. 40 kg