

MP 124 AXIAL FLOW FAN TEST SET

GENERAL DESCRIPTION

This is a bench top set for studying industrial type axial flow fan characteristics.

The unit consists of a single stage variable pitch axial flow fan and motor, inlet and outlet ducts, and instruments for measurement of air flow rate, pressures, and temperature. The unit is on wheels.



TYPICAL TESTS

- Flow rate vs pressure.
- Fan input, output and efficiency.
- Effect of speed on fan performance.
- Effect of impeller pitch angle on fan performance.
- Effect of guide vane on fan performance (optional).

TECHNICAL DATA

- Fan :
 - Diameter : 380 mm (approx).
 - Impeller construction : Single stage, aerofoil aluminium blades.
Adjustable pitch angle.
 - Rated maximum flow rate : 4,000 m³/h.
 - Rated maximum pressure : 35 mm water.
- Inlet duct with inlet cone and flow straightener.
- Outlet duct with flow straightener and damper.
- Speed control : Inverter.
- Measuring instruments :
 - Air flow rate : Travelling pitot and inlet cone and inclined water manometer , 0-450 mm, multiple slope.
 - Differential pressures : Inclined water manometer, 0-450 mm, multiple slope.
 - Thermometer and barometer : 1 set.
- Accessory : Barometer.
- Power supply : 220V 1Ph 50 Hz. Other power supply is available on request.

Net (unpacked) shipping dimensions WxLxH : 85 x 360 x 130 cm
Net weight : Approx. 430 kg