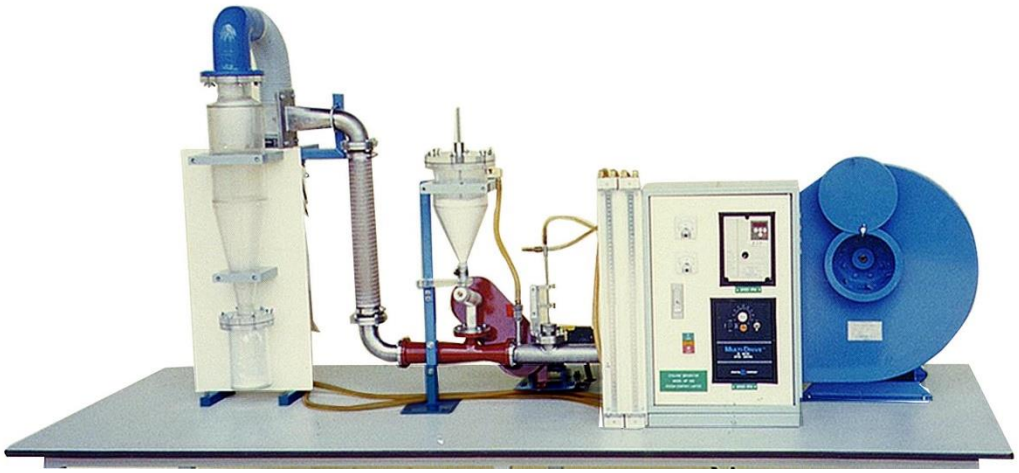
MP 400 CYCLONE SEPARATOR

GENERAL DESCRIPTION

The equipment is for studying the principle of two phase flow using a centrifugal blower.

Powder material is fed by an agitator and a variable speed screw feeder to a Venturi tube. The material is carried by air in the tube to a cyclone where the velocity is reduced and the material is separated and dropped to the bottom.

Instruction manual is also included.



EXPERIMENT CAPABILITIES

- Velocity profile of air in the transfer tube using a travelling Pitot.
- Observation of material separation in the cyclone.
- Comparison of theoretical expression with test results for pressure loss and material collection efficiency at each air velocity.

TECHNICAL DATA

- Blower:
  - Type : Centrifugal blower
  - Maximum air flow rate : Over 6 m^3/min
  - Maximum pressure : Over 180 mm water
- Speed control : Inverter
- Cyclone : Clear acrylic and discharge tube
- Accessories : Cyclone dust box
  : Filter bag
  : Stop watch
  : Platform balance
  : Beaker
- Measuring instruments
  - Air flow : Travelling Pitot with water manometer
  - Pressure : Water manometer for measurement of pressure difference in the transfer tube and the cyclone
- Software for data display and analysis by computer (separately supplied).
- Power supply : 220 V, 1 Ph, 50 Hz. Other power supply is available on request.

Net (unpacked) shipping dimensions WxLxH : Approx, 75 x 180 x 100 cm
Net weight : Approx. 180 kg

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