

**DESCRIPTION:**

The apparatus consists of two pipelines emerging out from a common manifold. One pipe line contains a Venturimetre and other contains an Orifice. The pressure tapings from the Venturimetre and orifice meter are taken to differential manometer to measure pressure difference. The Venturimetre and Orifice meter are connected in parallel and any one of them can be put in operation by operating valves provided at the downstream. The flow can also be regulated by these valves. Present set-up is self-contained water recirculating unit, provided with a sump tank and a centrifugal pump etc. Flow control valve and by-pass valve are fitted in water line to conduct the experiment on different flow rates. Flow rate of water is measured with the help of measuring tank and stop watch. Sensors for differential pressure and flow sensors for discharge measurement is also provided for data acquisition. With the help of software provided with the apparatus, the real time data can be analyzed with the usb connection to PC.

**Technical Details:**

- U- tube manometer: Inverted U Tube Water Manometer of 1000 mmWC
- Orifice Diameter:  $\geq 12$  mm
- Venturi meter: Throat Diameter  $\geq 12$  mm
- Sump tank capacity:  $\geq 70$  liters MOC: SS-304
- tank capacity:  $\geq 30$  liters.
- Pump: Monoblock type, 0-60 liter/min, Motor  $\geq 0.5$  HP, Branded make  
Piping with necessary Valves and Fittings
- Quick release Coupling made of brass or stainless-steel SS 304, for connection to measuring points for pressure.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- Digital Stop Watch with 1/10 second Accuracy
- Differential pressure sensor for data acquisition of pressure
- Flow rate sensor for data acquisition of discharge
- Detailed Technical Manual
- SUPPLY: Supply according to the requirements. Single phase, 220 V, 6 Amps to be provided by user,

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