



Technical Specifications

Application / Test Facility

Designed for the **visualization of fluid flow regimes**, this apparatus demonstrates laminar, transitional, and turbulent flow patterns using dye injection techniques. It enables users to study flow behavior and transition characteristics in a controlled environment.

Product Features

| Parameter | Specification |
|-----------------------------|--|
| Instrument Type | Tabletop or bench-mounted experimental setup |
| Flow Tube | Transparent borosilicate glass , length approx. 600–800 mm , inner diameter 10–14 mm |
| Dye Injection System | Stainless steel dye reservoir (500–600 ml) with fine glass capillary tube (or better) |
| Head Tank | Stainless steel or powder-coated mild steel, minimum 40 L capacity |
| Sump Tank | Stainless steel or powder-coated mild steel, minimum 60 L capacity |
| Flow Control | Manual control valves (made of brass, gunmetal, or steel) for precise flow adjustment |
| Circulation System | FHP pump, single-phase 0.25 HP, 220 V AC, 50 Hz , ensuring steady water circulation between tanks |
| Measurement Tools | 1 L measuring cylinder and electronic stopwatch for accurate measurement of flow rate and timing |
| Frame Structure | Heavy-duty mild steel frame with industrial PU paint coating for corrosion resistance |
| Electrical Supply | 220 V AC, single-phase, 50 Hz |

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



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| Parameter | Specification |
|-------------------------------|---|
| Installation Footprint | Approx. 1.3 m × 0.6 m |
| Construction | Durable and corrosion-resistant tank and frame assembly for long service life |

Accessories and Spares

- Standard **color dye** for flow visualization
- One additional **set of glass capillary tubes**

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