

**DESCRIPTION:**

The unit makes it possible to study the pressure loss of incompressible fluids in fully flowed through straight pipe elements. The trainer is suitable for assessing how different materials and pipe diameters affect the flow. The pipe elements used are commercially standard components in heating and sanitary engineering. The clear panel is mounted on a sturdy, movable frame. The four pipe sections are replaceable. Individual measuring sections can be inserted into the pipe system for investigation. Four straight pipe elements are mounted on the panel. These can be selected individually by ball valves. The differential pressure across the pipe system is limited using an overflow valve. The flow is adjusted using valves in the inflow and return and read on a rotameter. The pressure measuring points in the pipe system are designed as annular chambers and are located between the beginning and end of the measuring sections, ensuring a precise pressure measurement. The sensors are connected in pairs to a differential pressure meter and the respective differential pressure read on the display. Flow sensor is provided for discharge measurement. Software is also provided for data acquisition and apparatus can be connected to PC using USB.

Technical Details:

- Measuring length of pipe sections: 800 mm
- Pipe section 1: Galvanised iron \varnothing : 20x1.5mm
- Pipe section 2: stainless steel, \varnothing : 15
- Pipe section 3: aluminum, \varnothing : 15
- **Differential pressure meter**
- max. overpressure: 1000mbar
- **Measuring ranges**
- flow rate: 150...1600L/h

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



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- differential pressure: ± 350 mbar
- sump tank: 55 liters
- Measuring tank: 30 liters

Experiment:

- investigation of the pressure losses of flow through pipes
- measurement of the pressure differential on different pipe sections
- influence of various pipe diameters
- influence of different materials and surface roughness
- effect of the flow velocity
- comparison between experiment and theory

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