

**Product Name :**  
Gear Pump Demonstration Unit

**Product Code :**  
ALABS-A43-034



#### Description :

##### **Gear Pump Demonstration Unit**

- A small-scale gear pump demonstration unit, comprising of a water reservoir, pump, control valve, relief valve and inter- connecting pipework, all mounted on a stainless steel base.
- Equipped with electronic measurement sensors for pump head pressure, flow-rate and water temperature.
- Transparent pump head for visibility
- Capable of being linked to a PC (not supplied).
- Supplied with software providing full instructions for setting up, operating, calibrating and performing the teaching exercises.
- Facilities are provided for logging, processing and displaying data graphically. Full theoretical back-up is included together with a student questions and answers session.

#### **Capabilities:**

- Demonstration of a gear pump in operation.
- Measurement of constant-speed pump performance, including the production of characteristic curves of outlet pressure against:

- flow rate
- motor shaft power
- pump speed
- pump efficiency
- volumetric efficiency

- Comparison of student calculations with computer results.

**Description:**

A motor driven gear pump, mounted on a stainless steel plinth with a water reservoir and pipework for continuous circulation. The pump head and the water reservoir are manufactured from clear acrylic for maximum visibility. A manually operated valve at the pump outlet allows control of the flow and a pressure relief valve protects the operator and the equipment. Electronic sensors measure the pump outlet pressure, the flow rate and the water temperature.

**Technical Specification:**

- Max flow rate: 6.5l/m typical
- Max head: 25m
- Max pump speed: 1800rpm
- Motor power rating: 250W

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