

Product Name :
Centrifugal Pump Demonstration Unit**Product Code :**
ALABS-A104-514ALTEC™**Description :****Centrifugal Pump Demonstration Unit**

- A small-scale centrifugal pump demonstration unit, comprising of a water reservoir, the pump, control valves and interconnecting pipework all mounted on a stainless steel base.
- Equipped with electronic measurement sensors for pump head pressure, suction, flow-rate and water temperature.
- Transparent pump volute for visibility
- Capable of being linked to a PC (not supplied) via the interface console (available as an essential accessory).
- 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.

Description:

A motor driven centrifugal pump, mounted on a stainless steel plinth with a water reservoir and pipework for continuous circulation. The pump volute and the water reservoir are manufactured from clear acrylic for maximum visibility. Similarly the pipe runs are made from transparent pvc. Manually operated valves at the pump inlet and outlet allow control of the flow and also facilitate the study of suction effects.

The pump volute has been designed so that the impeller can be easily accessed and replaced without tools. Delivered with two impellers, one with forward curved blades and one with backward curved blades, allowing the students to investigate the effects of impeller characteristics.

Electronic sensors measure the pump inlet pressure, the pump outlet pressure, the flow rate and the water temperature.

The pump speed is accurately controlled by an advanced electronic inverter within the (an essential accessory). This inverter also calculates the torque produced at the motor drive shaft, allowing the power used by the pump to be derived. Also provides the conditioning electronics for the sensors and allows their readings to be displayed on the computer software.

Connections are a single multiway connector for the sensors and a connector for the pump motor drive.

The equipment is provided with advanced education and data logging software. See the software section of this datasheet for further details.

Specification:

- Max flow rate: 1.6l/sec typical
- Max head: 9.0m
- Max pump speed: 1800rpm
- Motor power rating: 250W



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