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## HM 283 Experiments with a centrifugal pump

Order code: 5201.07028300



Information about product price on demand

Parameters

Quantitative unit

ks

## GUNT HM 283

Centrifugal Pump Experiment System is designed to simulate and analyze the behavior of centrifugal pumps in a closed water circuit.

It features a pump with an adjustable drive motor, allowing variable speed control via a frequency converter. The system includes a transparent water tank and a transparent housing to visually observe the pump impeller during operation. Adjustable valves control pressure conditions on both the inlet and outlet sides of the pump. Integrated sensors monitor pressure, flow rate, and temperature, with no additional devices needed due to the microprocessor-based instrumentation.

The system operates through GUNT software with USB connectivity, enabling data acquisition and analysis via Windows 10. This system is ideal for educational institutions focused on fluid dynamics and pump performance analysis. It provides practical insights into the characteristics of centrifugal pumps, including their efficiency and behavior under varying pressure and flow conditions.

## Technical Data & Specifications:

### Centrifugal Pump with Drive Motor:

- Power consumption: 370 W
- Speed: 0-3000 min<sup>-1</sup>
- Max. flow rate: approx. 40 L/min
- Max. head: approx. 10 m
- Water tank capacity: approx. 12.5 L

### Measuring Ranges:

- Pressure (inlet): ±1 bar
- Pressure (outlet): 0-5 bar
- Flow rate: 3.5-50 L/min
- Temperature: 0-130°C

### Power supply:

- 230V, 50Hz, 1 phase /
- 230V, 60Hz, 1 phase /
- 120V, 60Hz, 1 phase
- Optional UL/CSA

### Included Items:

- Centrifugal pump unit with drive motor
- Transparent housing and water tank
- Adjustable valves for pressure control
- Sensors for pressure, temperature, and flow rate
- GUNT software for control and data acquisition via USB

### Dimensions & Weight:

- Size (LxWxH): 660 × 590 × 720 mm
- Weight: approx. 46 kg

### Required for Operation:

- PC with Windows 10