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HM 250 Fundamentals of fluid mechanics

Order code: **5201.07025000**



Information about product price on demand

Parameters

Quantitative unit

ks

GUNT HM 250

Fundamentals of Fluid Mechanics is a base module designed for conducting basic experiments in fluid mechanics. It features automatic identification and configuration of accessories via an RFID interface, ensuring easy setup and operation. The unit includes automatic bleeding of experimental sections, a PLC control system, and operation via touchscreen or an external device.

The screen mirroring function allows up to 10 end devices to access the user interface, and its network capability enables multiple workstations to monitor experiments in real time. The system integrates water and energy-saving technology, making it compact and efficient for laboratory use. It includes a closed water circuit with an integrated heater, storage tank, submersible pump, and measuring and control equipment.

The worktop features an internal edge, ensuring safe placement of accessories and preventing water spillage. A foam insert in the storage

tank minimizes water movement, enhancing measurement accuracy. Connections for water cooling are available, but an external laboratory water supply is required. The system supports various optional accessories to extend experimental possibilities. This compact and intelligent system is ideal for education and research in fluid mechanics, providing a flexible, efficient, and technologically advanced solution for laboratory experiments.

Technical Data & Specifications:

PLC Control System: Weintek cMT3092X

Pump:

- Power consumption: 50 W
- Maximum flow rate: 15 L/min
- Maximum head: 12 m

Bleeding Pump:

- Power consumption: 25 W
- Maximum flow rate: 10 L/min
- Maximum head: 5 m

Heater:

- Power consumption: 800 W

Storage Tank:

- Capacity: approx. 10 L

Measuring Ranges:

- Flow rate: 0...15 L/min
- Temperature: 0...70°C
- Pressure: 0...1 bar, 0...200 mbar, 0...50 mbar

Operating Conditions:

- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase
- 120V, 60Hz, 1 phase
- (UL/CSA optional)
- PC with Windows recommended

Included Items:

- Base module for fluid mechanics experiments
- Integrated RFID accessory recognition system
- PLC control system with touchscreen operation
- Screen mirroring function for up to 10 devices
- Network compatibility for multiple workstations
- Automatic bleeding of experimental sections
- Closed water circuit with heater, pump, and storage tank
- Foam insert to stabilize water movement
- Connections for water cooling (external supply required)

Dimensions & Weight:

- L x W x H: 730 x 610 x 680 mm
- Weight: approx. 42 kg