

# HM 365.11

## Centrifugal pump, standard design



### Description

- operating behaviour of a standard centrifugal pump
- part of the GUNT FEMLine

Standard pumps are pumps that are designed in accordance with international standards. The standard defines rating schemes and key dimensions so that standard pumps from different manufacturers can be exchanged without replacing the piping and ground plate.

HM 365.11 is a standard, non-self-priming pump that is delivered ready for installation, mounted on a plate. The centrifugal pump is installed in the supply unit HM 365.10 with just a few simple steps and connected via hoses and attached with clamping levers. For power supply, the pump is connected to the drive unit HM 365 with a V-belt.

The pressures at the inlet and outlet of the centrifugal pump are recorded with sensors. The measured values are read from digital displays on the supply unit and can be transmitted simultaneously via USB directly to a PC, where they can be analysed using the included software.

### Learning objectives/experiments

- in combination with HM 365 and HM 365.10
  - ▶ recording of pump characteristics
  - ▶ determination of the power requirement and the hydraulic power
  - ▶ determination of the pump efficiency
  - ▶ determination of the system characteristics and the operating point of the pump
  - ▶ checking of the necessary NPSH value of the pump

### Specification

- [1] examination of a standard centrifugal pump
- [2] operation with HM 365.10 Supply Unit for Water Pumps
- [3] powered by HM 365 Universal Drive and Brake Unit
- [4] pressure sensors at the inlet and outlet of the pump
- [5] pressure display on the display unit of HM 365.10

### Technical data

Standard centrifugal pump

- max. flow rate:  $20\text{m}^3/\text{h}$
- max. head: 23m
- nominal speed: approx.  $2900\text{min}^{-1}$

LxWxH: 640x300x420mm

Weight: approx. 42kg

### Scope of delivery

- 1 centrifugal pump

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Required accessories

070.36500	HM 365	Universal drive and brake unit
070.36510	HM 365.10	Supply unit for water pumps