

HM 365.13

Centrifugal pump, multistage



Description

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

In centrifugal pumps with multiple stages several impellers are arranged in series. This allows the pump to overcome large differences in head.

HM 365.13 is a centrifugal pump with four stages 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 with quick-release couplings and attached with clamping levers. For power supply, the pump is connected to the drive unit HM 365 with a V-belt. The pump speed is reduced by the transmission ratio of the 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] investigation of a centrifugal pump with 4 stages
- [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

Centrifugal pump with 4 stages

- max. flow rate: 17m³/h
- max. head: 27m
- nominal speed: 1450min⁻¹
- transmission ratio: 1:1,6

LxWxH: 560x300x440mm
Weight: approx. 64kg

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