Product name:	Product code:
Computerized Axial Flow Pump Test Rig	CIVIL-MEC-181-0001

Description

Computerized Axial Flow Pump Test Rig

Technical specification

Determination of the power requirement of the pump
Determination of the hydraulic power

SPECIFICATIONS:
Pump :
Output: 1000W at 1000min-1
Max. Flow rate: 700L/min
Max. Head: 1,75m
Tank: 160L

Measuring ranges :
Flow rate: 0…1200L/min
Temperature: 0…100°C
Pressure (outlet): 0…0,6 bar
Pressure (inlet): ±1bar
230V, 50Hz, 1 phase

In an axial-flow pump the pumping medium flows through the impeller (here a propeller) in the axial direction.
In axial-flow pumps, the pressure build-up is not achieved by the centrifugal force but like the aerodynamic principle, by the propeller blade.
Therefore these pumps are also known as propeller pumps.
They are not self-priming and the propeller must always be covered by the pumping medium.
Axial propeller pumps are used when high flow rates and a small head are needed.
The typical areas of application for propeller pumps are drainage systems, wastewater treatment plants and cooling water supply systems.

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The trainer includes an axial propeller pump, a tank and pipelines with generously designed pipe cross-sections.
The pump is powered in conjunction with the Universal Drive and Brake Unit.
The closed water circuit means that the trainer can be used independently of the water system.
The trainer is equipped with measuring elements for the pressures at the inlet and outlet of the pump.
A temperature sensor measures the water temperature.
The flow rate is measured with an electromagnetic flow meter.
The measured values are read from digital displays and can be transmitted simultaneously via USB directly to a PC, where they can be analyses using the software included

FEATURES:
Closed water circuit
Digital display of flow rate, pressure and temperature
Determination of the efficiency
Determination of the head
Determination of the system characteristics
Determination of the pressure/volume characteristics