Product name:	Product code:
Experiments With An Axial Turbine	Fluid Equipments0019



Description

Experiments With An Axial Turbine

Technical specification

- Power output: approx. 130W at 3500min-1
- Rotor, outer diameter: 50mm
- Blade length: 5mm

Pump

- Power consumption: 1,02kW
- Max. flow rate: approx. 375L/min
- Max. head: 13,7m

Measuring orifice

- Diameter: 44mm
- Differential pressure sensor: 0...0,1bar

Measuring ranges

- Flow rate: 500L/min
- Pressure (inlet side): 0...5bar
- Torque: 0...2Nm

Experiments With An Axial Turbine

Specification Of **Experiments With An Axial Turbine**

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- Functioning and operating behaviour of an axial turbine
- Closed water circuit comprising axial turbine, pump and water tank
- Transparent housing for observing the stator and the rotor
- Turbine load using the wear-free and adjustable eddy current brake
- Valve for adjusting the volumetric flow rate
- Force sensor to determine the torque on turbine shaft
- Measurement of turbine speed with optical speed sensor
- Pressure measurement on inlet side
- Determination of volumetric flow rate using differential pressure measurement across a measuring orifice
- Microprocessor-based measuring technique

Technical Data

Axial turbine