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Product Name :
Experiments With An Axial Turbine

Product Code :
LBNY-0005-103000178



Description :

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

Technical Specification :

Technical Data:

Axial turbine
Blade length: 5mm
Rotor, outer diameter: 50mm
Power output: approx. 130W at 3500min-1
Measuring orifice
Differential pressure sensor: 0...0,1bar
Diameter: 44mm
Pump
Power consumption: 1,02kW

Max. head: 13,7m
Max. flow rate: approx. 375L/min
Measuring ranges
Flow rate: 500L/min
Torque: 0...2Nm
Pressure (inlet side): 0...5bar.



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