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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

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



**Laboratory Instrument India**