Product name:	Product code:
Axial Flow Turbo machines	Fluid Equipments0026



Description

Axial Flow Turbo machines

Technical specification

Technical Data

Centrifugal pump

- Power: 5,5kW
- Max. flow rate: 150m³/h
- Max. head: 10m

Asynchronous motor

- Power: 1,5kW
- Torque: 0...5Nm
- Speed: 0...3000min-1
- Expansion tank: 150L

Measuring ranges

- Pressure (manometer): 2x -1...5bar
- Differential pressure: 5x 0...500mbar
- Flow rate: 0...100m³/h
- Speed: 0...3000min-1
- Torque: 0...9,81Nm

Axial Flow Turbo machines

Specification Of **Axial Flow Turbo machines**

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- Investigation of an axial flow turbo machine
- Closed water circuit with expansion tank and centrifugal pump
- Turbo machine may be operated as a turbine and as a pump Two sets of impellers and guide vane systems for pump mode and two sets of rotors and stators for Turbine mode with different inlet and outlet angles
- Asynchronous motor with 4-quadrant operation via frequency converter
- Recovery of the brake energy
- Motor with pendulum bearing, torque measurement via lever arm and force sensor
- Inductive speed sensor on the motor
- Manometers for measuring the inlet and outlet pressures
- Measuring probe and differential pressure sensor for recording the pressure curve in the turbo machine
- Electromagnetic flow meter
- Display of power consumption, torque, speed, pressure, differential pressure and flow rate