

Product Name :
Computerized Francis Turbine Trainer

Product Code :
ENGLABINGCAG310002



Description :

Computerized Francis Turbine Trainer

Technical Specification :

FEATURES:

Determination of the mechanical power and hydraulic power of the turbine
Determination of efficiency
Recording of characteristic curves
Investigation of the conversion of hydraulic into mechanical energy
Investigation of the influence of the guide vane position
Velocity triangles

SPECIFICATIONS:

Hydraulic power: 2,1kW at 1500min-1
Mechanical power: approx. 1,4kW at 1500min-1
Rotor, D: 165mm, 8 blades
8 guide vanes, angle of attack adjustable: 0...23°

Centrifugal pump, multistage :
Variable speed
Power consumption: 5,5kW
Max. Flow rate: 900L/min
Pump head: 42m

Asynchronous machine as generator :

Output: 2,2kW at 1440min-1

Tank: 550L

Measuring ranges :

Temperature: 0...100°C

Flow rate: 0...1000L/min

Torque: 0...20Nm

Speed: 0...3000min-1

Pressure (inlet): ± 1 bar (turbine)

Pressure (outlet): 0...6bar (turbine)

Power: 0...2200W (generator)

400V, 50Hz, 3 phases

400V, 60Hz, 3 phases, 230V, 60Hz, 3 phases



Engineering Lab Equipment India