

**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

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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):  $\pm 1$ 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**