

Product Name :
Francis Turbine Test Rig 5 HP**Product Code :**
EEHYD67M0002**Description :**

Francis Turbine Test Rig 5 HP

Technical Specification :

Francis Turbine is a reaction turbine the water enters the turbine through the outer periphery of the runner in the radial direction and leaves the runner in axial direction and hence it is called a mixed flow turbine. As the water flows to the runner, a part of pressure energy goes on changing into kinetic energy. The circular window of the turbine casing is provided with a transparent acrylic sheet for observation of flow on to the runner. This runner assembly is supported by thick cast iron pedestal. Thus the water through the runner is under pressure. The runner is completely enclosed in an air tight casing and the casing & runner is always full of water.

The present set-up consists of a runner. The water is fed to the turbine by means of Centrifugal Pump, radially to the runner. The runner is directly mounted on one end of a central SS shaft and other end is connected to a brake arrangement. The circular window of the turbine casing is provided with a transparent acrylic sheet for observation of flow on to the runner. This runner assembly is supported by thick cast iron pedestal. Pressure and Vacuum gauges are

fitted at the inlet and outlet of the turbine to measure the total supply head on the turbine.

Technical Details :

Output Power	:	3 KW
Discharge	:	2000 LPM (approx.)
Supply Head	:	20–25 M (approx.)
Speed	:	1000–1500 RPM (approx.)
Runner	:	Having Curved Vanes.
Dynamometer	:	Rope Brake type, Diameter 300 mm
Discharge Measurement :	Pitot Tube with Manometer	
RPM measurement	:	Digital RPM Indicator with Proximity sensor.



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