

Product Name :
Steam Power Plant

Product Code :
NEGEMG113

Description :

Steam Power Plant

The Experimental steam power plant setup is designed to study power generation using steam & evaluate performance of the power plant. The setup consists of Diesel fired boiler, steam turbine, steam condenser & power generator. The steam is generated in the boiler is supplied to the turbine & after expansion it flows to the condenser. The condensate is extracted from condenser using extraction pump. The condenser is cooling water is supplied from a large sump tank using a centrifugal pump. An AC alternator is coupled to the generator & power generated is supplied to a load bank of electric heaters. Measuring instruments are provided to measure the pressure & temperature of steam at different points in the cycle. The amount of boiler feed water, condensate & fuel consumption of the boiler are also measured for measurement of boiler efficiency & turbine performance.

We offer Steam Power Plant in 1 kW & 3 kW Output capacities.

TECHNICAL SPECIFICATIONS:

- Water Tube Steam Boiler - 300 Kg/hr operating pressure 10 bar, Diesel Fired, Make - Thermax
- Steam Separator
- Steam Turbine – 1 kW @ 3000 RPM
- Steam Condenser: Shell & Tube Condenser

- AC Alternator – 1 kW
- Water Softener
- Separating & Throttling calorimeter
- Fuel Tank
- Condensate Measurement Tank
- Condensate Extraction Pump
- Condenser Cooling Water Circulation Pump
- Pressure Gauges
- Chimney
- Water Meter
- Steam Solenoid Valve
- Control Panel with following instruments & equipment –

- Load bank
- RPM Controller & RPM Sensor
- Temperature Indicator
- Temperature Sensors Type K Thermocouples
- Heater On Off Switch
- Pump Starter
- Mains On/OFF
- Mains Indicator

NOTE: We also offer Steam Power Plant with 3 kW Turbine Output & 600 Kg/hr Steam Boiler

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