



GENERAL EXPLANATION

This training set converts steam pressure and speed into mechanical energy. At the same time, with the aid of the generator, it converts mechanical energy into electrical energy.

EXPERIMENTS

1. Calculation of turbine efficiency
2. Calculation of boiler efficiency
3. Determination of condenser capacity and efficiency
4. Relationship of turbine electrical power and speed

DIMENSIONS

A x B x H : 1480 x 650 x 1500 mm

OPTIONAL FEATURES

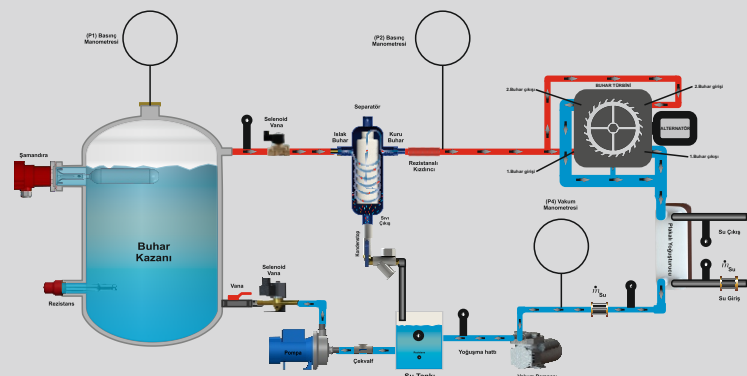
- Touch LCD Display
- USB Computer Connection
- Computer Control

PACKAGE INCLUDED

Device, device cover, 1 printed experiment report, circuit diagram and product catalog

TECHNICAL SPECIFICATION

Steam turbines convert the thermal and kinetic energy of steam into electricity. The fuel source of the steam turbine is the steam boilers. The hot steam, which is produced in the steam boiler with high temperature and pressure, is transferred to the turbine system, then condensed and directed back to the steam boiler and the cycle is completed.



TECHNICAL DETAILS

- Radial type turbine (Steam inlet perpendicular to the blade shaft)
- Double steam supply and outlet
- Rotor diameter 100 mm
- Turbine speed 25.000 rpm
- Superheated steam up to 160 ° C and 5.2 bar
- Plate heat exchanger
- Temperature measurement from different points
- Vacuum pressure from 2 separate points
- Pressure measurement
- Digital measurement of electrical data