



Science Lab

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Product Name :

Thermal Power Plant with Steam Engine Trainer

Product Code :

SLE/EA/18



Description :

- A mobile frame contains all the parts of the test set.
- An electric pump draws from a reservoir (included) to deliver water to an electrically-heated boiler.
- The boiler includes a safety valve, water level gauge and 'blow-down cock'.
- A throttling calorimeter allows students to measure the dryness fraction of the steam.
- Two mechanical gauges show the boiler and engine inlet pressures.
- The boiler produces steam to turn a two-cylinder steam motor.
- The equipment includes all instruments needed for the experiments.
- A meter shows the electrical power supplied to the heaters in the boiler.
- The used steam from the motor outlet passes through a mains water-cooled condenser, then down to a waste tank or to a measuring vessel.
- These include a band-brake dynamometer with a digital torque and speed display, to measure and display motor speed, torque and power.
- Thermocouples connect to a digital temperature display to measure and display temperatures at key points in the test set.
- Supply a stopwatch and thermometer to allow accurate measurement of the flow and temperature of the condensate.

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