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Product Name :

Thermal Power Plant with Steam Engine Trainer

Product Code :

SLE/EA/18



Description :

Thermal Power Plant with Steam Engine Trainer (Product Code: SLE/EA/18) is a mobilesteam plant test set used to demonstrate the full cycle of a small thermal power plant, from boilerto engine to condenser, in mechanical engineering laboratories. An electrically heated boilerdrives a two-cylinder steam motor loaded by a band-brake dynamometer, and a throttlingcalorimeter measures the dryness fraction of the steam. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM technical educational equipment manufacturer, atits own factory in Ambala, India.

Specifications

Parameter	Detail
Frame	Mobile frame containing all parts of the test set
Feed water	Electric pump draws from a reservoir (included) to deliver water to the boiler
Boiler	Electrically heated, with safety valve, water level gauge and blow-down cock
Heater power	Meter shows the electrical power supplied to the boiler heaters
Steam quality	Throttling calorimeter for measuring the dryness fraction of thesteam
Pressure gauges	Two mechanical gauges showing boiler pressure and engine inlet pressure
Engine	Two-cylinder steam motor turned by steam from the boiler
Dynamometer	Band-brake dynamometer with digital torque and speed display, measuring motor speed, torque and power
Temperatures	Thermocouples at key points, connected to a digital temperature display
Condenser	Mains water-cooled; used steam then passes to a waste tank or a measuring vessel
Instrumentation	Includes all instruments needed for the experiments
Also used	A stopwatch and thermometer for accurate measurement of condensate flow and temperature
Product code	SLE/EA/18
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Thermal Power Plant Trainer Used For?

Students follow the whole steam power cycle on one frame: the pump feeds the boiler, steam turns the engine against the band brake, and the calorimeter is used to [illegible] rical powe
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