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Product Name :
Stirling Cycle Hot Air Engine Vertical Cylinders

Product Code :
LBNY-0005-11200075



Description :

The Stirling Cycle Hot Air Engine Vertical Cylinders unit is for demonstration of stirling cycle hot air engine principles. Instruments are provided for measurement of input power, and output power. The advantage of this design is the ability to bring the engine to operating condition in a short time. The engine consists of two vertical stainless steel cylinders. The first cylinder is to generate hot air using a heater. Power to the heater can be varied. The second cylinder is to generate a mechanical power using hot air from the first cylinder. Both cylinders are attached to a common shaft, with a suitable flywheel.

Experiments:

Output and efficiency vs speed for a given input power.
Torque vs speed for a given input power.

Technical Specification :

Technical Data:

Maximum power : Approx 900 mW.

Heater : 500 W max.

Instruments:

Torque : Mechanical dynamometer with spring balance, belt, and weights.

Speed : Portable tachometer.

Input power : Voltage and current digital display.

Power supply : 220V 1Ph 50Hz.



Laboratory Instrument India