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Product Name :
Stirling Cycle Hot Air Engine Twin Power

Product Code :
LBNY-0005-11200079



Description :

The engine consists of a large vertical cylinder with heater to generate hot gas. Twin cylinders above the hot gas cylinder generate power. The hot gas cylinder head can be cooled by water from a cooling system. The Stirling Cycle Hot Air Engine Twin Power unit is for demonstration of stirling cycle hot air engine principles. All cylinders are attached to a common shaft. Heater to the hot gas cylinder can be varied. The advantage of this design is the ability to bring the engine to operating condition in a short time. Instruments are provided for measurement of input power and output power.

Experiments:

Output and efficiency vs speed for a given input power.
Torque vs speed for a given input power.
Effect of hot gas cylinder head cooling on efficiency.

Technical Specification :

Technical Data:

Cooling system : Water tank and pump.

Heater : 500 W.

Maximum output power :

Upto 2000 mW without cooling water.

Upto 3000 mW with cooling water.

Measuring 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