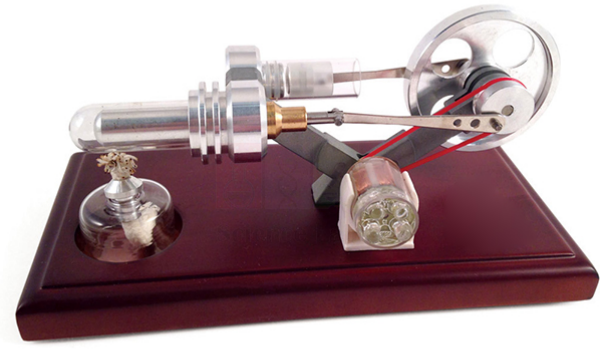
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Product Name :

Stirling Engine with Alcohol Burner

Product Code :

SLE/H/15



Description :

Stirling Engine with Alcohol Burner (Product Code: SLE/H/15) is a working demonstration engine that runs on heat applied from outside the cylinder. The alcohol burner creates a temperature difference across the engine, and that difference moves the pistons and flywheel, so students watch heat being turned into mechanical and electrical energy in front of them. It arrives ready to run, and every moving part stays in view. Science teachers in middle and secondary schools use it to introduce heat engines, and it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as a ready-to-run centrepiece for a heat energy science kit.

Specifications

Parameter	Detail
Type	Stirling engine demonstration model
Heat source	Alcohol burner (external heat source)
Operating principle	External heating creates a temperature difference that drivesthe pistons and flywheel
Energy conversion shown	Heat into mechanical and electrical energy
Visibility	All working parts of the engine are easy to see
Base dimensions	3-1/2 x 7 in
Height to top of engine	3-1/4 in
Assembly	None required
Construction	Built to last through many classroom uses
Supplied with	Instructions

Typical Use

The teacher fills and lights the alcohol burner beneath the hot end, waits for the engine to warm, and gives the flywheel a light turn to start it. Once running, the class can follow the pistons moving out of step with each other and link what they see to the heating, expansion, cooling and contraction of the working gas. Removing the flame and watching the flywheel slow as the temperature difference fades is a simple way to show that a heat engine needs both a hot and a cooler side to do work, and it naturally leads into talk about efficiency and real engines.

Because nothing needs assembling, the model can move between classrooms and still be running within minutes of lighting the burner, which makes it a practical demonstration model for the physics lab and for science exhibitions. Stand it on a stable, heat-resistant surface, keep hands off the hot end until it has cooled, and refuel the burner only when the flame is out and the burner is cold.

Manufacturer

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