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Product Name :

Stirling Engine

Product Code :

SLE/H/01



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Description :

Stirling Engine (Product Code: SLE/H/01) is a low-temperature differential heat engine indurable stainless steel that shows students, in real time, how heat energy is converted intomechanical work. Stand it on a cup of hot water or ice water, give the flywheel a turn by hand andit keeps running on the temperature difference alone. A classic thermodynamics demonstrationfor middle school and a clear physics demonstration kit for classrooms, it is made by a physicsinstruments supplier in India, **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Type	Low-temperature differential Stirling engine
Material	Durable stainless steel
Flywheel diameter	3-1/2" (9 cm)
Displacement cylinder diameter	3-1/2" (9 cm)
Unit height	About 5-3/4" (14.5 cm) overall
Unit weight	7.6 oz (216 g)
Heat source limit	Should not exceed 100° C
Cold source limit	Should not be below ?20° C
Included	Engine and instructions
Needed, not supplied	Hot source, cold source and cup

Typical Use

Fill a cup with hot water (kept at or below 100° C), set the engine on top and wait briefly for the base plate to warm. Rotate the flywheel by hand to start it: the displacer shuttles air between the hot and cool plates, the pressure changes drive the power piston, and the flywheel carries the motion round. To reverse the engine’s direction, use ice water instead, keeping the cold source no lower than ?20° C. Pupils can time the flywheel, compare hot and cold runs, and discuss why a larger temperature difference gives more vigorous motion — a strong starting point for any heat energy science kit lesson on engines and efficiency.

This is a delicate instrument, and the connections between the flywheel and pistons can be damaged. Before each experiment, check two things: the flywheel, connecting rods and pistons should move freely without resistance, and the connecting rods must be properly seated so the linkages to the piston move freely. Avoid rough handling and never force the flywheel.

Manufacturer

The engine carries the ScienceLab brand of Jain Scientific Equipments Private Limited, an Ambala, Haryana company that designs and builds physics, chemistry and biology teaching appa
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