

SEC1: Coffee Stirling Engine:

“As the temperature difference between the top and bottom base plates increases, the engine begins to turn. In warmer ambient temperatures, the bottom base plate can be heated over a cup of coffee.”

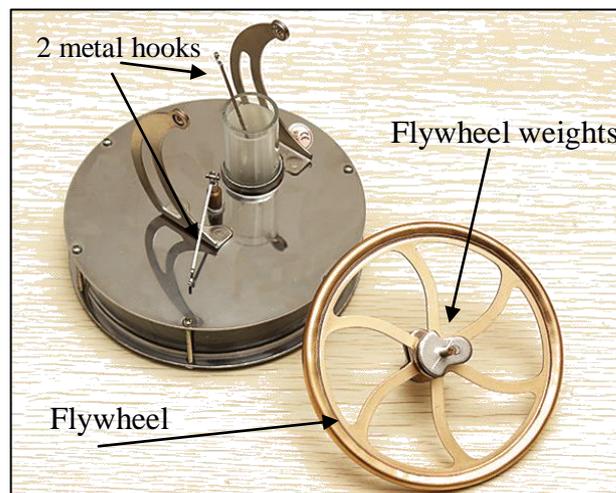


What is Stirling Engine?

A Stirling Engine is a heat engine that operates by cyclic compression and expansion of air or other gas. This is traditionally known as an external combustion engine in contrast to an internal combustion engine where the heat input is by combustion of a fuel within the body of the working fluid. Unlike the steam engine's use of water in both its liquid and gaseous phases as the working fluid, the Stirling Engine encloses a fixed quantity of permanently gaseous fluid such as air. As in all heat engines, the general cycle consists of compressing cool gas, heating the gas, expanding the hot gas, and finally cooling the gas before repeating the cycle.

INSTRUCTIONS:

The SEC1 Coffee Stirling Engine is almost ready to run. You only need to install the flywheel and click the 2 metal hooks in between the flywheel weights. It is now ready to be put on a hot drink, just give it a small gentle spin to activate the wheel, then it will run faster and faster even on a cup of hot water.



Please remember, that these engines are sensitive and can be damaged easily, they don't cope with dust very well either.

Tips: Pencil, graphite is the only lubricant for connections of this item, you can rub a pencil a bit on the outside of the connections. Please don't use oil for lubricant. Oil will become an oil-dirt when put this item in air. That makes friction bigger, and finally Stirling engine can't run freely.

Note: For a \$ 40.00 maintenance fee, we can take them apart and fine tune them again if they don't work very well any more.

Please be aware that we are not responsible for our kit set if they have been assembly wrongly or been damaged during it.
If you need some help please contact us before they have been damaged.

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