

#14

ATE FPSG Stirling Engine – Thermal energy to electricity

Project no: 1502-19012017 B02 – ATE FPSG

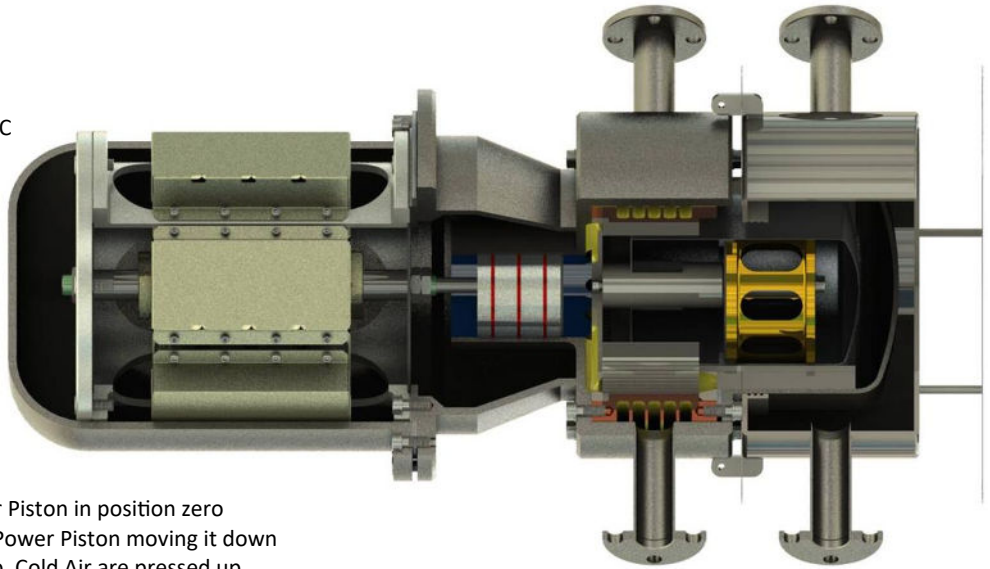
Based on work performed at NASA we have enhanced our stirling engine and designed an acoustic 200kWe prototype: The AS (Acoustic Stirling) Engine.

Acoustic Stirling Engine:

Power output up to 250 kW
Inlet pressure up to 40 bar(a)/580 psi
Inlet temperature molten salt up to 650 °C
MS Outlet Temperature >150°C
Water inlet for cooling

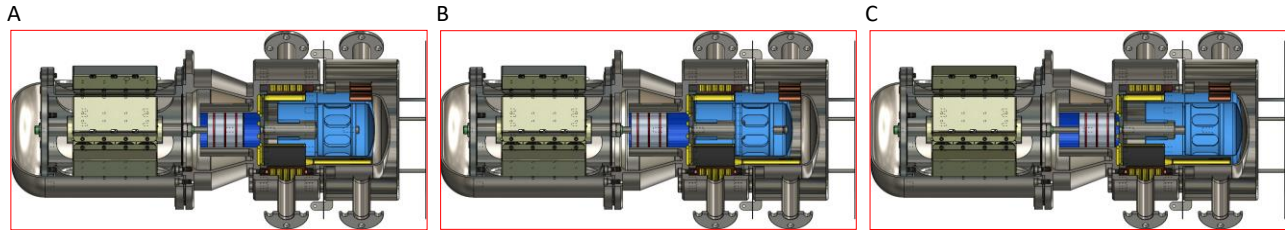
Dimension

Length 1.5 m
Width 1.5 m
Height 2 m



Operation Steps:

- A Displacer Piston in position zero; Power Piston in position zero
- B Displacer move down and press air on Power Piston moving it down
- C Hot Air moved away from Displacer Top, Cold Air are pressed up



200kW Generator:

Generation Source: Molten Salt

