RCV®
ENGINES LIMITED

Class-Leading Heavy Fuel Engines for Hybrid Applications

HYBRID

AIR SEA LAND

www.rcvengines.com

All RCV engines operate equally well on a variety of fuels including gasoline, heavy fuel and the new sustainable aviation fuel.

The RCV combustion system is based on our unique patented revolving valve. The combination of high levels of in-cylinder turbulence and a compact combustion chamber ensures the engine will start readily and run well on all major fuel types. This has given our engines the ability to switch between fuel types with no mechanical changes apart from selecting a different fuel map in the ECU.

RCV often gets asked if our engines are suited as a Hybrid Range Extender – the answer is a resounding **yes** for several reasons, the main being that the higher continuous operating RPM allows better power density.

Well Suited as a Hybrid Range Extender

- Liquid cooled. Engine can be fully enclosed with radiator in remote location.
- Easy starting. Excellent combustion system means self-starting on Heavy Fuel or Gasoline is instantaneous.
- Flexible mounting system allows any suitably rated pancake style alternator to be fitted.
- Higher continuous operating RPM allows better power density.

Versatile 4 Stroke Engine Technology

- Excellent fuel economy – 0.34kg per KWh typical
- High specific power output due to free breathing rotary valves.
- Long MTBO (250hrs) ensuring minimal operator intervention.

Effortless Gasoline and HF operation due to robust combustion system

- Works perfectly on Gasoline, JET-A1, JP8 & JP5 and Successfully run on synthetic heavy fuel: net zero carbon emissions.
- Instant starting, handles well, insensitive to changes in tune or operating conditions including working well at high altitude.
- Multi-fuel capable, fuel type can be changed via CANbus with no mechanical changes required.