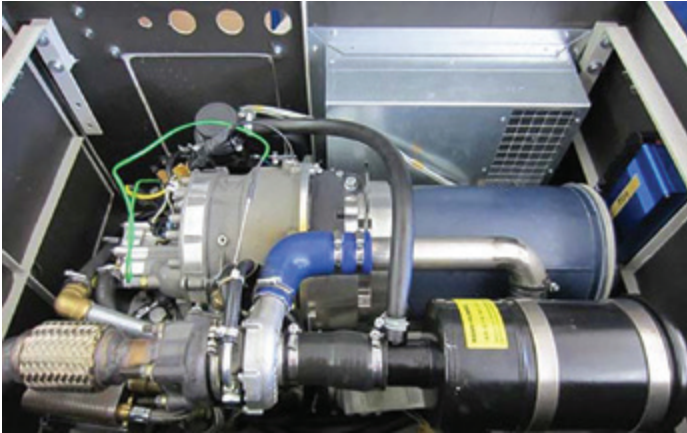


15kW at 4750min⁻¹



The Cogeneration System (Battery Charging and Heating System) is a retrofit system for large diesel propulsion systems such as locomotives, heavy duty trucks, etc. It acts as a power generator to charge the batteries and supply the electrical power grid. The resulting thermal energy is used to maintain a corresponding thermal level of the main diesel engine.

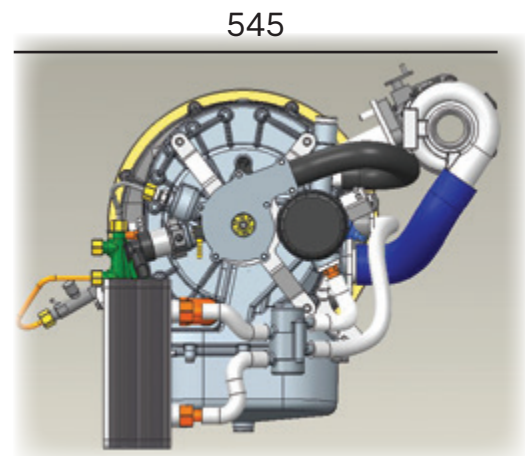
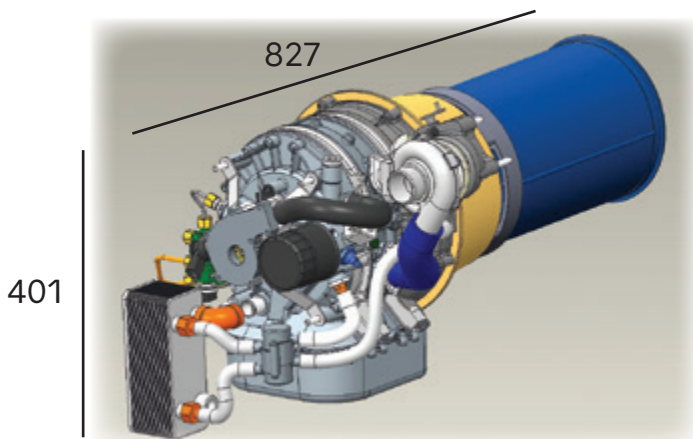
This system minimizes the fuel consumption, noise and exhaust emissions at a standstill of the vehicle. The system also preheats the engine after a long standstill to the minimum temperature required for starting, or keeps the operating temperature at long stops. The heat output can be increased by additional electrical heating cartridges. The system can be scaled in power and size.

The particular configuration shown in this leaflet is based on an existing application. Other Alternating Current (AC) at 50Hz or 60 Hz as well as Direct Current (DC) systems with various outputs between 10kW and 50kW can be built around our family of modular, scalable R350 family of Wankel engines coupled with proper sized electrical generators and control units.

TECHNICAL DATA

ENGINE AND SYSTEM DATA	UNITS	R 351d
Number of Rotors		1
Engine Displacement	Liter	0.35
Max. Speed	min ⁻¹	4750
Charging		Turbo & Intercooler
Fuel Injection		High-Pressure EFI
Coolant		Water / Ethylene Glycol
Oil type		SAE 10W40
Oil volume	Liter	3
Engine System Voltage	Volt	12
Dimensions (L x W x H)	mm	827 x 545 x 401
Weight	kg	80
Thermal Power		32kW at 4750 min ⁻¹
Electrical Power		15kW at 4750 min ⁻¹
Current	Volt	74 Alternating 110
Generator Type		HPEV AC50-25.28
Motor Controller		Curtis
System Control Strategy		Controlled by Battery Current
Fuel Consumption		100% of Power: 7.0 Liter/ h 70% of Power: 3.6 Liter/ h 25% of Power: 2.0 Liter/ h

Further information on this system or derivative systems with higher power available upon request.



1. Best fuel consumption, Diesel fuel with the density 0,835 kg/dm³ at 15°C.
2. Detailed sketches, models and information are available on demand.

The information on this data sheet represent normal system calibration. Specific performance will be provided with a firm offer.