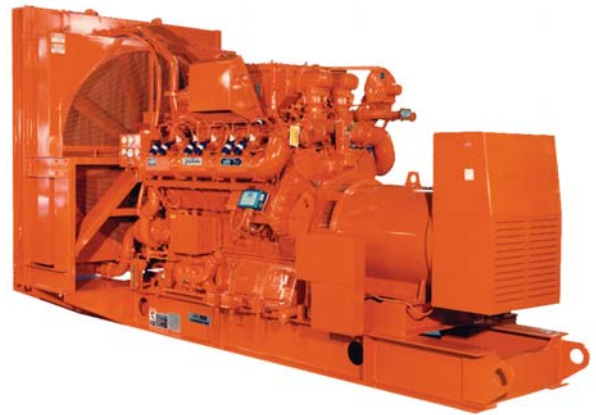


# Waukesha\* gas engine VGF\* Series Enginator\* generating system VGF36GSID

450 - 620 kWe



*Image is representative of engine model*

GE's Waukesha VGF generator sets offer a compact, fuel-flexible package delivering exceptional performance in prime power, cogeneration, peak shaving and stand-by power applications.

The VGF36 generator set is designed for standby and continuous power applications and is rated at 450-515 kWe at 50 Hz (1500 rpm) and 530-670 kWe at 60 Hz (1800 rpm).

## technical data

Waukesha engine	L36GSID
Cylinders	V 12
Piston displacement	2193 cu. in. (36 L)
Compression ratio	8.6:1
Bore & stroke	5.98" x 6.5" (152 x 165 mm)
Jacket water system capacity	44 gal. (166 L)
Lube oil capacity	86 gal. (326 L)
Starting system	24V DC electric

### Dimensions l x w x h inch (mm)

Heat exchanger	180 (4580) x 68 (1720) x 96 (2440)
Water cooler	152 (3860) x 68 (1720) x 96 (2440)
Radiator	196 (4980) x 105 (2670) x 124 (3150)

### Weights lb (kg)

Heat exchanger	19600 (8900)
Water connection	18000 (8170)
Radiator	23580 (10700)



imagination at work

# performance data

		Continuous Power		Standby Power	
		60 Hz 1800 RPM	50 Hz 1500 RPM	60 Hz 1800 RPM	50 Hz 1500 RPM
Intercooler Water Temperature 130°F (54°C)					
	Power kW (heat exchanger/water connection cooling)	560	475	620	515
	Power kW (radiator cooling)	530	450	600	490
	BSFC (LHV) Btu/bhp-hr (kJ/kWh)	7389 (10449)	7245 (10247)	7419 (10493)	7292 (10310)
	Fuel Consumption Btu/hr x 1000 (kW)	5911 (1732)	4854 (1423)	6529 (1913)	5359 (1570)
Emissions	NOx g/bhp-hr (mg/Nm <sup>3</sup> @ 5% O <sub>2</sub> )	16.00 (5926)	16.00 (5926)	16.00 (5926)	16.00 (5926)
	CO g/bhp-hr (mg/Nm <sup>3</sup> @ 5% O <sub>2</sub> )	8.00 (2963)	8.00 (2963)	8.00 (2963)	8.00 (2963)
	NMHC g/bhp-hr (mg/Nm <sup>3</sup> @ 5% O <sub>2</sub> )	0.25 (93)	0.25 (93)	0.25 (93)	0.25 (93)
	THC g/bhp-hr (mg/Nm <sup>3</sup> @ 5% O <sub>2</sub> )	1.50 (556)	1.50 (556)	1.50 (556)	1.50 (556)
Heat Balance	Heat to Jacket Water Btu/hr x 1000 (kW)	1844 (540)	1533 (449)	1960 (574)	1625 (447)
	Heat to Lube Oil Btu/hr x 1000 (kW)	293 (86)	239 (70)	302 (88)	247 (72)
	Heat to Intercooler Btu/hr x 1000 (kW)	123 (36)	84 (25)	146 (43)	101 (30)
	Heat to Radiation Btu/hr x 1000 (kW)	165 (48)	152 (45)	143 (42)	134 (39)
	Total Exhaust Heat Btu/hr x 1000 (kW)	1564 (458)	1235 (362)	1730 (507)	1365 (400)
Intake/Exhaust System	Induction Air Flow scfm (Nm <sup>3</sup> /hr)	1160 (1783)	953 (1464)	1180 (1818)	965 (1491)
	Exhaust Flow lb/hr (kg/hr)	5162 (2341)	4240 (1923)	5515 (2502)	4525 (2052)
	Exhaust Temperature °F (°C)	1116 (602)	1068 (576)	1114 (601)	1074 (579)
	Radiator Air Flow scfm (m <sup>3</sup> /min) (radiator cooling)	69679 (1973)	59114 (1674)	55341 (1567)	59114 (1674)

**Rating Standard:** The Waukesha Enginotor ratings are based on ISO 3046/1-1995 with an engine mechanical efficiency of 90% and auxiliary water temperature T<sub>co</sub> as specified limited to ±10°F (±5°C). Ratings also valid for ISO 8528 and DIN 6271, BS 5514 standard atmospheric conditions.

**Continuous Power Rating:** The highest electrical power output of the Enginotor available for an unlimited number of hours per year, less maintenance. It is permissible to operate the Enginotor with up to 10% overload for two hours in each 24 hour period.

**Standby Power Rating:** This rating applies to those systems used as a secondary source of electrical power. This rating is the electrical power output of the Enginotor (no overload) 24 hours a day, for the duration of a power source outage.

All data according to full load and subject to technical development and modification.

Consult your local GE Power & Water's representative for system application assistance. The manufacturer reserves the right to change or modify without notice, the design or equipment specifications as herein set forth without incurring any obligation either with respect to equipment previously sold or in the process of construction except where otherwise specifically guaranteed by the manufacturer.



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