



Waukesha* gas engine VGF* F18G

160 - 240 BHP (119 - 179 kWb)



The VGF series of high-speed engines are built with the durability expected from a medium-speed engine. This series of engines is designed for a wide range of stationary, spark-ignited, gaseous fuel applications and has a high power-to-weight ratio operating up to 1800 RPM.

The VGF Series simplifies maintenance procedures. The engine design allows easy access to the oil pump, main bearings and rod bearings without the need to lower the oil pan. Commonality of parts between VGF models reduces the amount of inventory needed for servicing a fleet. Standard design features, such as independent heads, simplify maintenance work.

technical data

Cylinders	Inline 6	
Piston displacement	1096 cu. in. (18 L)	
Compression ratio	11:1	
Bore & stroke	5.98" x 6.5" (152 x 165 mm)	
Jacket water system capacity	16 gal. (60 L)	
Lube oil capacity	44 gal. (166 L)	
Fuel Pressure Range	5 - 15 psi (0.34 - 1.03 bar)	
Starting system	120 psi max. air/gas 24V DC electric	
Cooling Water Flow at Jacket Water gpm (l/m)	1500 rpm 103 (390)	1800 rpm 130 (492)

Dimensions l x w x h inch (mm)
80.5 (2043) x 50 (1264) x 68 (1727)
Weights lb (kg)
5300 (2400)

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performance data

Intercooler Water Temperature 130°F (54°C)		1800 RPM	1500 RPM
	Power bhp (kWb)	240 (179)	200 (149)
	BSFC (LHV) Btu/bhp-hr (kJ/kWh)	7570 (10704)	7475 (10573)
	Fuel Consumption Btu/hr x 1000 (kW)	1816 (532)	1495 (438)
Emissions	NO _x g/bhp-hr (mg/Nm ³ @ 5% O ₂)	16.00 (5926)	16.00 (5926)
	CO g/bhp-hr (mg/Nm ³ @ 5% O ₂)	10.00 (3704)	10.00 (3704)
	NMHC g/bhp-hr (mg/Nm ³ @ 5% O ₂)	0.30 (111)	0.30 (111)
	THC g/bhp-hr (mg/Nm ³ @ 5% O ₂)	2.00 (741)	2.00 (741)
Heat Balance	Heat to Jacket Water Btu/hr x 1000 (kW)	651 (191)	545 (160)
	Heat to Lube Oil Btu/hr x 1000 (kW)	52 (15)	33 (10)
	Heat to Radiation Btu/hr x 1000 (kW)	60 (18)	56 (16)
	Total Exhaust Heat Btu/hr x 1000 (kW)	478 (140)	380 (111)
Intake/ Exhaust System	Induction Air Flow scfm (Nm ³ /hr)	347 (534)	286 (439)
	Exhaust Flow lb/hr (kg/hr)	1549 (702)	1274 (578)
	Exhaust Temperature °F (°C)	1064 (573)	1029 (554)

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

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