

BASE ENGINE

CAMSHAFT – Forged alloy steel, quiet helical gear drive.

CONNECTING RODS – Forged alloy steel. Angle split.

CRANKCASE – Integral alloy cast iron crankcase and cylinder frame with nodular iron main bearing caps.

CRANKSHAFT – Forged alloy steel with precision ground and induction hardened main and crankpin journals, statically and dynamically balanced. Viscous vibration damper.

CYLINDERS – Replaceable wet cylinder liners of centrifugally cast alloy iron.

FLYWHEEL – With 148 tooth ring gear (for Delco electric and Ingersoll Rand air/gas starters). Flywheel machined for Twin Disc 14" industrial clutch.

FLYWHEEL HOUSING – SAE #1 with provision for three magnetic pickups and vertical mounting pads.

PISTONS – Aluminum alloy, with cast iron top ring insert. Oil cooled. Top ring is chrome plated keystone type. 10:1 compression ratio.

STANDARD ACCESSORIES

BREATHER – Crankcase, open type.

CARBURETOR – Single natural gas Impco 200D updraft.

COOLING SYSTEM – Jacket water: belt driven jacket water/oil cooler pump, thermostatically controlled, bypass type. Belts and guards not included in base engine. Customer must specify alternator or belt tightener accessories.

DOCUMENTATION – Operation and Maintenance Manual.

EXHAUST SYSTEM – Water cooled exhaust manifold, with outlet elbow with flange for ANSI 3" nominal pipe.

GOVERNOR – Hoof mechanical governor with 10% nominal regulation at 1800 rpm.

IGNITION SYSTEM – Altronic V, solid state low tension magneto, with ground switch, coils, cables and spark plugs. Non shielded.

LIFTING EYES – For Engine Only.

LUBRICATION SYSTEM – Gear type pump, full pressure system. Adjustable relief valve and mounted centrifugal oil filter. Engine mounted shell and tube oil cooler. Industrial type oil pan of cast aluminum alloy.

MOUNTING – Four individual foot type mounts.

PAINT – Oilfield orange.

RECOMMENDED GENERATOR SET SPECIFICATION

AIR CLEANER – 8" two stage, dry element type with rain shield and service indicator, engine mounted.

BREATHER – Crankcase, closed.

GOVERNOR – Woodward 1724 EPG.

INSTRUMENT PANEL/ENGINE PROTECTION SHUTDOWNS – Engine mounted; includes high water temperature and low oil pressure switchgages for engine protection shutdown.

REGULATOR – Fisher model S-301, mounted with 1.25" inlet.

RECOMMENDED COMPRESSOR SPECIFICATION

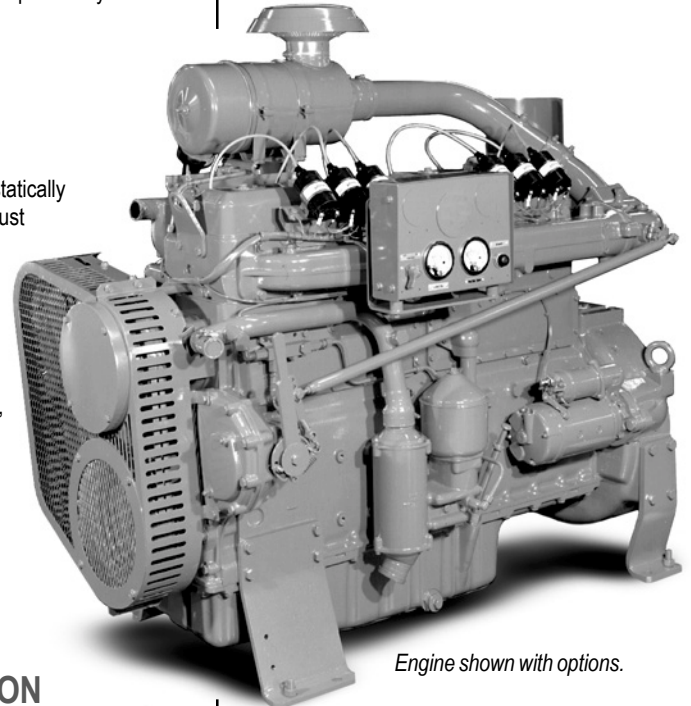
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F11G

VSG™ Series Gas Engine 90 - 150 BHP



Engine shown with options.

Model F11G

Naturally Aspirated, Six Cylinder, Four-Cycle Gas Engine

SPECIFICATIONS

Cylinders Inline 6	Lube Oil Capacity 7 gal. (26.5 L)
Piston Displacement 673 cu. in. (11 L)	Fuel Pressure Range 5 - 15 psi (34 - 103 kPa)
Bore & Stroke 5.0" x 5.71" (127 x 145 mm)	Dry Weight 2,350 lb. (1068 kg)
Compression Ratio 10:1	
Jacket Water System Capacity 7.1 gal. (27 L)	

POWER RATINGS: F11G VSG™ SERIES GAS ENGINES

Model	C.R.	Bore & Stroke in. (mm)	Displ. cu. in. (litres)	Brake Horsepower									
				1200 rpm		1400 rpm		1500 rpm		1600 rpm		1800 rpm	
				I	C	I	C	I	C	I	C	I	C
F11G	10:1	5 x 5.71 (127 x 145)	673 (11)	100	90	117	105	125	112	133	120	150	135

Rating Standard: All models; Ratings are based on ISO 3046/1-1995 with mechanical efficiency of 90% and Tcr_a (clause 10.1) as specified limited ±10° F (±5° C). Ratings are also valid for SAE J1349, BS5514, DIN6271 and AP17B-11C standard atmospheric conditions.

Intermittent Power Rating: The highest load and speed which can be applied in variable speed mechanical system application only. Operation at this rating is limited to a maximum of 3500 hours per year.

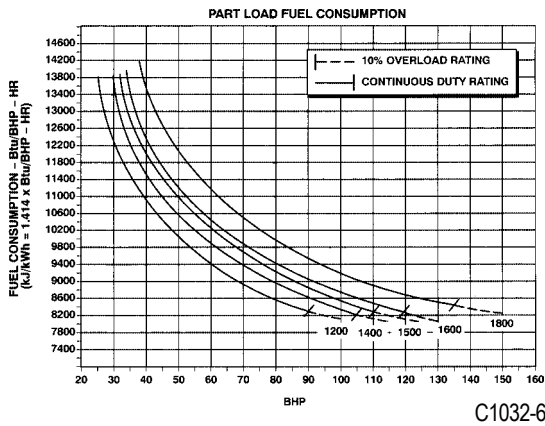
ISO Standard Power/Continuous Power Rating: The highest load and speed which can be applied 24 hours a day, seven days a week, 365 days per year except for normal maintenance, it is permissible to operate the engine at up to 10% overload, or maximum load indicated by the intermittent rating, whichever is lower, 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 output the system will produce continuously (no overload), 24 hours per day for the duration of the prime power source outage.

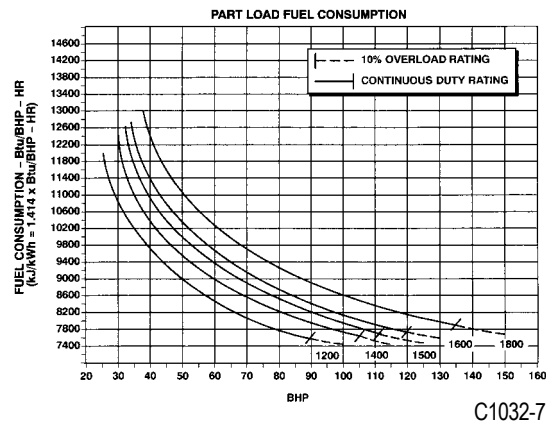
All natural gas engine ratings are based on a fuel of 900 Btu/ft³ (35.4 MJ/Nm³) SLHV, with a 91 Waukesha Knock Index® value. For conditions or fuels other than standard, consult the Waukesha Engine Sales Engineering Department.

FUEL CONSUMPTION

BEST POWER SETTING



BEST ECONOMY SETTING



NOTE: Engines are shipped from the factory at the best power setting. Operating at this setting will allow oil change intervals of 720 hours. Oil change intervals at the best economy setting are reduced.



Waukesha

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Consult your local Waukesha Distributor 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.