VGF® P48GSI

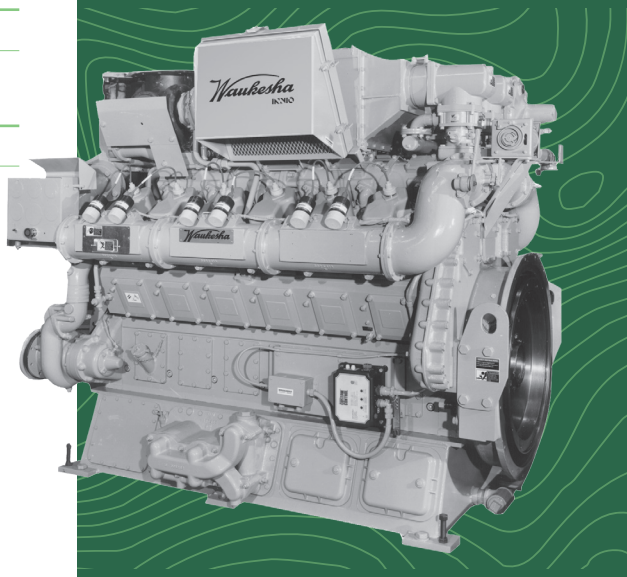
830-1,065 BHP (620-800 kWb)

Technical Data

Cylinders	V16	
Piston displacement	2,924 cu. in. (48 L)	
Compression ratio	8.6:1	
Bore & stroke	5.98" x 6.5" (152 x 165 mm)	
Jacket water system capacity	58 gal. (219 L)	
Lube oil capacity	113 gal. (428 L)	
Fuel Pressure Range	25 - 50 psi (1.72 - 3.45 bar)	
Starting system	150 psi max. air/gas 24V DC electric	
Cooling Water Flow at	**1500 rpm**	**1800 rpm**
Jacket Water gpm (l/m)	278 (1,054)	337 (1,277)
Aux. Water gpm (l/m)	71 (269)	87 (329)

Dimensions l x w x h inch (mm)
114.61 (2,911) x 61.38 (1,559) x 79.72 (2,025)

Weights lb (kg)
14,900 lbs. (6,760 kg)



The Waukesha® 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.

A POWERFUL FUTURE

Waukesha

VGF P48GSI

Performance Data

Intercooler Water Temperature 130°F (54°C)		1800 RPM	1500 RPM
	Power bhp (kWb)	1,065 (800)	885 (660)
	BSFC (LHV) Btu/bhp-hr (kJ/kWh)	7,373 (10,355)	7,234 (10,236)
	Fuel Consumption Btu/hr x 1000 (kW)	7,853 (2,301)	6,402 (1,877)
Emissions	NOx g/bhp-hr (mg/Nm^3 @ 5% O_2)	16.00 (5,926)	16.00 (5,926)
	CO g/bhp-hr (mg/Nm^3 @ 5% O_2)	8.00 (2,963)	8.00 (2,963)
	NMHC g/bhp-hr (mg/Nm^3 @ 5% 0_2)	0.25 (93)	0.25 (93)
	THC g/bhp-hr (mg/Nm^3 @ 5% O_2)	1.50 (556)	1.50 (556)
Heat Balance	Heat to Jacket Water Btu/hr x 1000 (kW)	2,438 (715)	2,034 (596)
	Heat to Lube Oil Btu/hr x 1000 (kW)	385 (113)	315 (92)
	Heat to Intercooler Btu/hr x 1000 (kW)	164 (48)	110 (32)
	Heat to Radiation Btu/hr x 1000 (kW)	197 (58)	182 (53)
	Total Exhaust Heat Btu/hr x 1000 (kW)	2,109 (618)	1,634 (479)
Intake/ Exhaust System	Induction Air Flow scfm (Nm^3/hr)	1,541 (2,368)	1,256 (1,931)
	Exhaust Flow lb/hr (kg/hr)	6,858 (3,111)	5,591 (2,536)
	Exhaust Temperature °F (°C)	1,113 (601)	1,066 (574)

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

Consult your local Waukesha 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.

Waukesha – an INNIO brand - INNIO's Waukesha engines are at the forefront of the energy transition, providing reliable and compliant energy solutions for distributed gas compression and power generation applications. The brand's rich and lean-burn engines, ranging from 335 hp to 5,000 hp, set an industry standard for low emissions, high reliability, and fuel flexibility.

Waukesha products are continuously upgraded to help operators stay emission-compliant without sacrificing operational excellence. These upgrades include new and remanufactured engines and parts, as well as conversion and modification kits, all of which are backed by OEM warranty and more than 115 years of engine expertise. Additionally, our Waukesha digital solutions include a collaborative solution with Detechtion Technologies for gas compression applications and INNIO's myPlant platform for power generation applications. Both solutions provide customers with enhanced monitoring and optimization capabilities, resulting in improved performance and reduced downtime.

We connect locally with our customers to enable a rapid response to their service needs, providing enhanced support through our broad network of distributors and solution providers with parts, services, and digital offerings.

Waukesha engines are engineered in Waukesha, Wisconsin, U.S., and manufactured in Welland, Ontario, Canada. To learn more about the company's products and services, please visit INNIO's website at **www.waukeshaengine.com** or follow Waukesha engines on **LinkedIn**.

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