

12V-275GL +

Gas Engine with ESM[®] 2

Constant Torque Ratings

3,750 bhp (2,796 kWb) @ 1,000 rpm

3,375 bhp (2,517 kWb) @ 900 rpm

2,812 bhp (2,097 kWb) @ 750 rpm

Technical Data

Cylinders	V12
Piston displacement	13,048 cu. in. (214 L)
Compression ratio	9:1
Bore & stroke	10.83" x 11.81" (275 x 300 mm)
Jacket water system capacity	100 gal. (379 L)
Lube oil capacity	220 gal. (883 L)
Fuel pressure range	50 – 60 psi (3.4 – 4.1 bar)
Starting system	150 psi (10.3 bar)

Dimensions l x w x h inch (mm)

188.8 (4,796) x 91.3 (2,320) x 126.4 (3,211)

Weights lb (kg)

54,000 (24,493)

INNIO's Waukesha[®] 275GL + represents the most advanced generation of high-horsepower engines designed for optimum performance in gas compression and other mechanical drive applications. A unique combination of robust construction and innovative technology, the 275GL + lean-burn engine delivers the fuel flexibility, reliability, power output, and emissions demanded by the oil and gas industry.

The 275GL + features Waukesha's ESM[®] 2 control, which integrates engine functionality into a single, closed-loop system with direct NOx measurement.

Key components such as the oil filters, oil cooler, pre-lube pump, and jacket water and auxiliary thermostats have been mounted on the engine, simplifying the packaging process and skid layout.

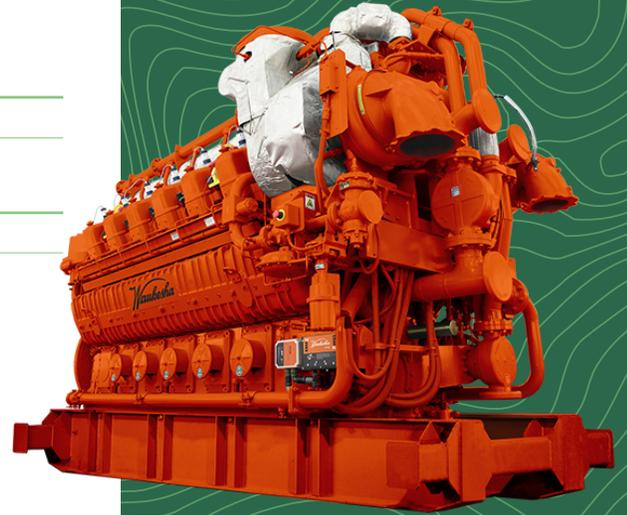


Image is representative of engine model.



Engine ships "ready to connect" with SkidIQ full skid monitoring system. SkidIQ is a cloud-based digital solution that integrates real-time engine analytics and compressor monitoring technology. The result is a unified platform that reduces operating expenses and emissions while enhancing uptime

A POWERFUL FUTURE

Waukesha

12V-275GL +

Technical Features

Feature	Description	Advantages
Excellent fuel efficiency	Efficiency advantage at full speed and load; advantage increases at partial speeds and loads.	Minimize fuel costs and maximize profits across the entire range of speed and load combinations.
Single, closed-loop engine control system	Waukesha's proven ESM2 control integrates the following into a single, closed-loop system: <ul style="list-style-type: none"> • Air/Fuel Ratio Control • Wastegate Control • Turbocharger Bypass Control • Ignition Timing • Knock Detection • Fault Monitoring 	Directly measures NOx emissions; adjusts operating parameters to prevent NOx emissions from exceeding 0.5 g/bhp-hr with limited manual intervention or setup.
Wide range of fuel flexibility	More power on more fuels, including full-load down to 600 Btu/ft ³ and operation up to 2300 Btu/ft ³ .	More power on more fuels means more profits without the additional costs associated with fuel treatment skids. The 275GL+ can achieve full load down to 60% methane and 70% load on pure ethane.
High reliability with long maintenance intervals	Achieves up to 36,000 hours before top-end overhaul and 72,000 hours before bottom end.	With low lifecycle costs and the ability to run up to 5 years continuously before overhaul, the 275GL+ is the best choice for the most remote, rugged, and demanding applications.

Performance Data

Intercooler Water Temperature 130°F (54°C)		1000 RPM	900 RPM
	Power bhp (kWb)	3,750 (2,796) ¹	3,375 (2,517) ¹
	BSFC (LHV) Btu/bhp-hr (kJ/kWh)	6,559 (9,280)	6,433 (9,101)
Emissions	NOx g/bhp-hr (mg/Nm ³ @ 5% O ₂)	0.5 (230)	0.5 (230)
	CO g/bhp-hr (mg/Nm ³ @ 5% O ₂)	1.7 (771)	1.6 (723)
	NMHC g/bhp-hr (mg/Nm ³ @ 5% O ₂)	1.0 (457)	0.9 (420)
	THC g/bhp-hr (mg/Nm ³ @ 5% O ₂)	6.1 (2,790)	6.0 (2,803)
	Methane g/bhp-hr (mg/Nm ³ @ 5% O ₂)	5.1 (2,333)	5.1 (2,383)
	Formaldehyde g/bhp-hr (mg/Nm ³ @ 5% O ₂)	0.28 (129)	0.28 (129)
	CO ₂ g/bhp-hr (g/Nm ³ @ 5% O ₂)	385 (176)	378 (176)

All information provided is subject to change without notice. All technical and performance data to be released via SAA - please contact Application Engineering.

Consult your local Waukesha gas engine 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.

1. Power rating requires option code 1080B

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 Detection 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](https://www.linkedin.com/company/waukeshaengine).

IWK-123025-EN

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