

12V-275GL + Fuel Flex

Gas Engine with ESM® 2

Constant Torque Ratings

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

Technical Data

Cylinders	V12
Piston displacement	13,048 cu. in. (214 L)
Compression ratio	8:1
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)

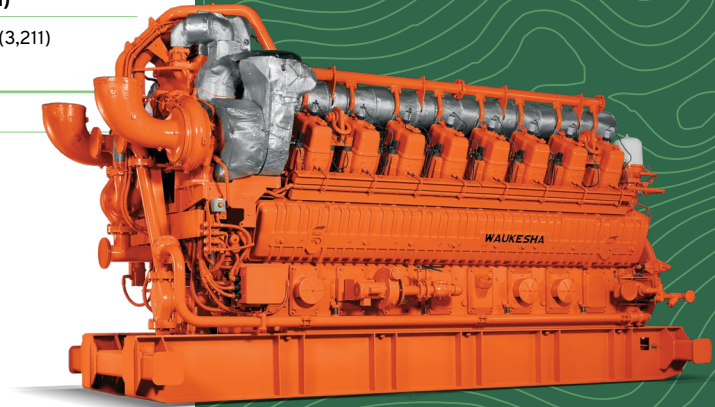
The Waukesha® 275GL® + engine from INNIO Group represents an advanced generation of high-horsepower engines designed for strong performance in gas compression and other mechanical-drive applications. Combining robust construction and advanced technology, the 275GL + lean burn engine supports fuel flexibility, reliability, power output, and emissions performance for oil and gas applications.

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)

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.

See page 2 for technical features and performance data.



The image is for illustrative purposes only and may not show the exact engine configuration.

A POWERFUL FUTURE

Waukesha

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Technical Features

Feature	Description	Advantages
Excellent fuel efficiency	Optimized to achieve excellent fuel efficiency while running on a wide variety of field gases and load profiles.	Minimize fuel costs and maximize profits across the entire range of speed and load combinations.
Single, closed-loop engine control system	Waukesha's proven ESM 2 control integrates the following into a single, closed-loop system: - Air/Fuel Ratio Control - Wastegate Control - Turbocharger Bypass Control - Ignition Timing - Knock Detection - Fault Monitoring	Directly measures NOx emissions and automatically adjusts operating parameters to maintain desired NOx setting.
Wide range of fuel flexibility	Operation on a broad range of fuels with full power from 850-1,550 BTU/ft³ and capability up to 2,300 BTU/ft³.	More power on more fuels means more profits without the additional costs associated with fuel treatment skids.
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	
		0.3 NOx	0.5 NOx
	Power bhp (kWb)	3,750 (2,796)	
	BSFC (LHV) Btu/bhp-hr (kJ/kWh)	6,805 (10,225)	6,665 (10,014)
	WKL* (before derate)	50	50
	Altitude (before derate) ft (m)	4,900 (1,493)	5,700 (1,737)
Emissions	NOx g/bhp-hr (mg/Nm³ @ 5% O₂)	0.3 (121)	0.5 (202)
	CO g/bhp-hr (mg/Nm³ @ 5% O₂)	1.99 (806)	1.57 (636)
	NMHC g/bhp-hr (mg/Nm³ @ 5% O₂)	0.32 (131)	0.80 (326)
	THC g/bhp-hr (mg/Nm³ @ 5% O₂)	5.14 (2,080)	4.37 (1,780)
	Methane g/bhp-hr (mg/Nm³ @ 5% O₂)	4.27 (1,730)	3.56 (1,445)

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.