VGF24GL

Enginator[®] generating system

325 - 425 kWe

Technical Data

| H24GL |
|--------------------------------|
| Inline 8 |
| 1,462 cu. in. (24 L) |
| 11:1 |
| 5.98" x 6.5" (152 x 165 mm) |
| 20 gal. (75 L) |
| 56 gal. (212 L) |
| 24V DC electric |
| |

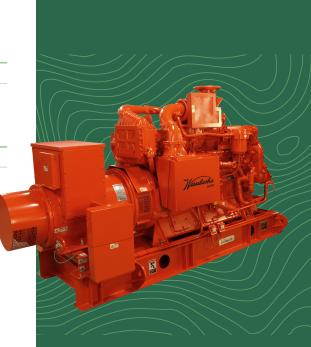
Dimensions I x w x h inch (mm)

Water cooler 143 (3,630) x 54 (1,370) x 79 (2,000) Radiator 183 (4,650) x 88 (2,240) x 112 (2,840)

Weights Ib (kg)

 Water connection
 12,210 (5,540)

 Radiator
 14,720 (6,680)



The Waukesha[®] VGF[®] generator sets offer a compact, fuel-flexible package delivering exceptional performance in prime power, cogeneration, peak shaving and stand-by power applications. The VGF24 generator set is designed for standby and continuous power applications and is rated at 325-360 kWe at 50 Hz (1500 rpm) and 390-425 kWe at 60 Hz (1800 rpm).

A POWERFUL FUTURE



VGF24GL

Performance Data

| | | Continuo | us Power | Standby | Standby Power | |
|--|---|-------------------|-------------------|-------------------|-------------------|--|
| Intercooler Water Temperature 130°F (54°C) | | 60 Hz 1800 RPM | 50 Hz 1500 RPM | 60 Hz 1800 RPM | 50 Hz 1500 RPM | |
| | Power kW (water connection cooling) | 415** | 340** | 425 | 360 | |
| | Power kW (radiator cooling) | 390** | 325** | 405 | 350 | |
| | BSFC (LHV) Btu/bhp-hr (kJ/kWh) | 7,016 (9,923) | 6,817 (9,642) | 6,967 (9,854) | 6,774 (10,193) | |
| | Fuel Consumption Btu/hr x 1000 (kW) | 4,104 (1,203) | 3,340 (979) | 4,285 (1,256) | 3,489 (1,035) | |
| Emissions | NOx g/bhp-hr (mg/Nm ³ @ 5% O ₂) | 2.00 (822) | 2.50 (1,004) | 2.00 (822) | 2.50 (1,004) | |
| | CO g/bhp-hr (mg/Nm ³ @ 5% O ₂) | 1.30 (541) | 1.30 (519) | 1.30 (541) | 1.30 (519) | |
| | NMHC g/bhp-hr (mg/Nm ³ @ 5% 0 ₂) | 0.26 (105) | 0.30 (122) | 0.26 (105) | 0.30 (122) | |
| | THC g/bhp-hr (mg/Nm ³ @ 5% O ₂) | 1.60 (650) | 2.00 (806) | 1.60 (650) | 2.00 (806) | |
| Heat Balance | Heat to Jacket Water Btu/hr x 1000 (kW) | 1,043 (306) | 886 (260) | 1,077 (316) | 912 (267) | |
| | Heat to Lube Oil Btu/hr x 1000 (kW) | 129 (38) | 93 (27) | 131 (38) | 94 (28) | |
| | Heat to Intercooler Btu/hr x 1000 (kW) | 256 (75) | 174 (51) | 273 (80) | 185 (54) | |
| | Heat to Radiation Btu/hr x 1000 (kW) | 89 (26) | 83 (24) | 88 (26) | 73 (21) | |
| | Total Exhaust Heat Btu/hr x 1000 (kW) | 1,177 (345) | 921 (270) | 1,196 (351) | 942 (276) | |
| Intake/Exhaust System | Induction Air Flow scfm (Nm³/hr) | 1,238 (1,903) | 1,008 (1,549) | 1,215 (1,865) | 990 (1,520) | |
| | Exhaust Flow Ib/hr (kg/hr) | 5,398 (2,449) | 4,393 (1,992) | 5,540 (2,513) | 4,520 (2,049) | |
| | Exhaust Temperature °F (°C) | 842 (450) | 808 (431) | 844 (451) | 810 (432) | |
| | Radiator Air Flow scfm (m3/min) (radiator cooling) | 54,091 (1,532) | 45,691 (1,294) | 54,091 (1,532) | 45,691 (1,294) | |

**Requires option code 1100.

Rating Standard: The Waukesha Enginator ratings are based on ISO 3046/1-1995 with an engine mechanical efficiency of 90% and auxiliary water temperature Tcra as specified limited to ±10°F (±5°C). Ratings also valid for ISO 8528 and DIN 6271, BS 5514 standard atmospheric conditions.

Continuous Power Rating: The highest electrical power output of the Enginator available for an unlimited number of hours per year, less maintenance. It is permissable to operate the Enginator with up to 10% overload 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 electrical power output of the Enginator (no overload) 24 hours a day, for the duration of a power source outage.

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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