

Gas Fuelled

Environmentally-friendly
generator sets

Gas-fuelled generator sets

Enjoy long run times without refueling

In the past, gaseous fuels had been avoided in commercial and industrial backup power applications based upon cost effectiveness, power density, and perceptions of durability and fuel reliability. That is no longer the case.

COST-EFFECTIVE ENGINES

GENERAC Spark-ignited engines are readily available in high volumes, providing a highly competitive advantage over traditional gas technology.

EXTENDED RUNNING TIMES

A key benefit to using natural gas fuel is increased run time. As natural gas is supplied by a utility feed, refuelling is not an issue.

PREVENTATIVE MAINTENANCE

Not having to deal with on-site fuel storage and polishing provides savings in operating costs associated with the standby generator.

ENVIRONMENTALLY FRIENDLY

Not only do natural-gas-fuelled engines emit less nitrogen oxides and particulate matter than comparable diesel-fuelled engines, but they also avoid fuel containment, spillage and environmental concerns associated with storing diesel fuel.

Our technology

Our generators utilise GENERAC Industrial spark-ignited engines, which are optimised for performance and responsiveness to load variations.

With its modular power systems, PRAMAC has perfected the process of paralleling generators through the use of our integrated control technology. Modular paralleling provides the advantages of redundancy, flexibility and scalability, offering customers up to 99.9999% reliability for critical loads.


























Generac spark-ignited gas technology, with rich-burn combustion, is produced in large scale, allowing optimisation of the capital costs while guaranteeing the robustness required in industrial applications.

Main applications

GAS GENSETS APPLICATIONS

Gas-fuelled generators are MCPD-compliant and are suitable for all applications that require extended run time, low exhaust or noise emissions, or that have location constraints for on-site fuel storage (i.e. rooftops).

Our gas technology advantage

APPLICATIONS	CRITICAL POWER	EXTENDED POWER OUTAGE	DEMAND / RESPONSE POWER
 Healthcare			
 Public infrastructure			
 Transportation infrastructure			
 Commercial buildings			
 Data centre			
 Industrial buildings			
ADVANTAGES			
	GAS technology 10-seconds start capable. High performance with transient loads	Lower operating costs than traditional diesel. Power available even during extended outages	Lower fuel cost provides savings with self-generated power, scheduled utility disconnect

For more information, please contact info@ylemenergy.com or visit www.ylemenergy.com



The market's most advanced controller

INTERFACE

An on-board 7" colour resistive touchscreen provides instant access to the most important parameters, ensuring the generator is ready and available at a moment's notice.

CONNECTIVITY

First to market with built in Wi-Fi, Bluetooth, and LAN connections. Monitoring and control is always at your fingertips via a mobile connected device, such as a smartphone, tablet, or PC.



EASE OF USE

Intuitive icons, "app-like" navigation, and multilingual screens are identical at the equipment or remote device, putting the customer in the Power Zone.

FULLY INTEGRATED

Power Zone has complete control over the engine and the generating-set's functions. It includes speed governing, ignition, fuel control, paralleling and protection. All this results in fewer components and a system that is easier to troubleshoot.



Medium Combustion Plant Directive (MCPD) Compliance

This is legislation designed to improve air quality for new and existing combustion plant and it can affect generators with an electrical output from around 400kW. The MCPD's Emissions Limit Values (or ELVs) focus on the concentration levels of sulphur dioxide (SO₂), oxides of nitrogen (NO_x), and particulates in exhaust gases from affected plant - plus they require monitoring of carbon monoxide levels (CO), but don't limit it. Our gas-fired generation systems are the perfect answer to compliance as their emissions fall within the permitted levels.

Natural-Gas-Fuelled Generator Range

MODEL	GGW200	GGW300	GGW400	GGW500
Standby Rating (1,500 RPM/400V/50Hz)	200kVA / 160kW	300kVA / 240kW	400kVA / 320kW	500kVA / 400kW
Prime Rating (1,500 RPM/400V/50Hz)	180kVA / 144kW	270kVA / 216kW	360kVA / 288kW	450kVA / 360kW
FUEL CONSUMPTION (Natural Gas kg/hr) (in accordance with ISO 3046)				
75% Load	31.8kg / hr	41.0kg / hr	51.3kg / hr	68.7kg / hr
50% Load	24.2kg / hr	31.2kg / hr	38.4kg / hr	51.4kg / hr
EXHAUST EMISSIONS (fitted with a three-way catalyst)				
5% O₂ CONCENTRATION:				
NO _x mg/Nm ³	<75	<75	<125	<50
CO mg/Nm ³	<75	<75	<20	<90
CH ₂ O mg/Nm ³	<20	<20	<20	<20
15% O₂ CONCENTRATION:				
NO _x mg/Nm ³	<30	<35	<50	<20
CO mg/Nm ³	<25	<25	<10	<30
CH ₂ O mg/Nm ³	<15	<10	<50	<20
ACCOUSTIC PERFORMANCE (enclosed generator set)				
dBA @ 1 Metre Distance Free Field	78 dBA	78 dBA	77 dBA	77 dBA
dBA @ 7 Metre Distance Free Field	68 dBA	68 dBA	67 dBA	67 dBA

Find Out More

To discuss how Ylem Energy can help with your generation requirements, please contact us by calling +44 (0)161 660 2222, emailing: info@ylemenergy.com or visiting www.ylemenergy.com



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