Environmentally friendly

GAS FUELLED

generator sets

DT GEN

GENERATOR SPECIALISTS

GAS FUELLED
generator sets

Enjoy long run times without refuelling

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.

PREVENTIVE MAINTENANCE

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

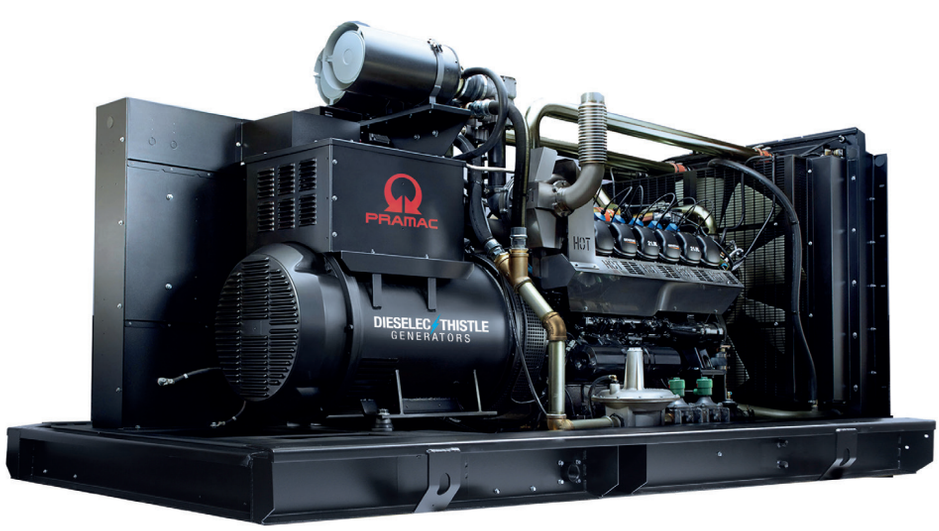
ENVIRONMENTALLY FRIENDLY

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

Industrial spark-ignited engines, are optimised for performance and responsiveness to load variations.

With our modular power systems, we have 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 optimization of the capital costs while guaranteeing the robustness required in industrial applications.

MAIN APPLICATIONS

GAS GENSET APPLICATIONS
Gas fuelled generators 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 centres	✓	✓	✓
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 **sales@dtgen.co.uk**

THE MARKET'S MOST ADVANCED CONTROLLER

INTERFACE

On-board a 7" colour resistive touchscreen provides instant access to the most important parameters, ensuring the generator is ready and available at a moments notice.

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 less components and a system easier to troubleshoot.

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 cell phone, tablet, or PC.

NATURAL GAS FUELLED GENERATOR RANGE

MODEL	GGW200	GGW300	GGW400	GGW500
Standby Rating (1500 RPM/400V/50Hz)	200kVA / 160kW	300kVA / 240kW	400kVA / 320kW	500kVA / 400kW
Prime Rating (1500 RPM/400V/50Hz)	180kVA / 144kW	270kVA / 216kW	360kVA / 288kW	450kVA / 360kW
Generac Rich Burn Natural Gas Engine	6 Cylinder	6 Cylinder	12 Cylinder	12 Cylinder
FUEL CONSUMPTION NATURAL GAS KG^3/HR IN ACCORDANCE WITH ISO 3046				
100% LOAD	37.8Kg^3 / hr	51.3Kg^3 / hr	64.8Kg^3 / hr	86.4Kg^3 / hr
75% LOAD	31.8Kg^3 / hr	41.0Kg^3 / hr	51.3Kg^3 / hr	68.7Kg^3 / hr
50% LOAD	24.2Kg^3 / hr	31.2Kg^3 / hr	38.4Kg^3 / hr	51.4Kg^3 / hr
EFFICIENCY VALUES: MINIMUM HEAT VALUE LHV = 13.1 KWH/KG				
100% LOAD	32.30%	35.70%	37.70%	36.30%
75% LOAD	29.30%	33.50%	35.70%	34.20%
50% LOAD	25.20%	29.30%	31.80%	30.40%
EXHAUST EMISSIONS (WITH 3 WAY CATALYST FITTED)				
5% 02 CONCENTRATION:				
NOx Mg/Nm^3	<75	<75	<125	<50
CO Mg/Nm^3	<75	<75	<20	<90
CH2O Mg/Nm^3	<20	<20	<20	<20
15% 02 CONCENTRATION:				
NOx Mg/Nm^3	<30	<35	<50	<20
CO Mg/Nm^3	<25	<25	<10	<30
CH2O Mg/Nm^3	<15	<10	<50	<20
APPROXIMATE DIMENSIONS (TBC AT TIME OF ORDER)				
OPEN GENERATOR SET				
LENGTH mm	3540mm	3540mm	3800mm	3800mm
WIDTH mm	1500mm	1500mm	1666mm	1666mm
HEIGHT mm	1870mm	1870mm	1870mm	2040mm
WEIGHT Kg	2800Kg	2800Kg	3940Kg	4650kg
SILENT (ENCLOSED) GENERATOR SET				
LENGTH mm	4400mm	4400mm	4700mm	4700mm
WIDTH mm	1540mm	1540mm	1670mm	1695mm
HEIGHT mm	2240mm	2240mm	2190mm	2190mm
WEIGHT Kg	3500Kg	3500Kg	5975Kg	5975Kg
SILENT (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

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