



GenStation Gas

- A domestic scale Combined Heat and Power System
- One machine to provide both electricity and heat for your home¹
- Using Natural Gas (or LPG or Biogas) to generate your own electricity, you get all the (waste) heat for free.
- Drastically reduce your Carbon Footprint (32% less CO₂ put into the atmosphere)²
- Up to 37% reduction in annual fuel costs³
- Completely automated – can be controlled by the same 7 day timer that controls a boiler
- CPU-based controller monitors performance and health of the CHP
- As easy to install as a boiler⁴
- Provides complete energy security (for those people who experience grid power loss)⁵



1. The CHP is designed to run as your boiler would run (usually twice a day). Either grid electricity or a battery bank with inverter is required whilst CHP is not running.
2. Compared with the wasted energy and unnecessary CO₂ released by grid power stations, if you were using grid electricity.
3. Figures based on average UK home usage of grid electricity and grid gas.
4. A qualified electrician will be required to connect the CHP to the consumer box and fit the grid switch-out relay.
5. The CHP uses an asynchronous alternator (rather than an induction generator as some CHP use), so it does not require the grid to be present in order to generate electricity.



Electricity Output	230VAC, single phase, 50Hz 9.5kW on LPG, 8.5kW on Natural Gas, 6.5kW on Biogas
Heat Output	2.25 times the electrical output (80°C hot water)
Electrical Efficiency	27%
Thermal Efficiency	58%
Overall Efficiency	85%
Installation	Outdoors only
Dimensions (mm)	1450 x 615 x 750 (L x W x H)
Weight (KGS)	370
Fuel consumption	3.2 at full load (m ³ /hr)
Cooling System	Water cooled, with dump radiator and fan
Engine Power	11kW at 1500rpm
Engine type	4-cylinder, 16-valve, 4-stroke, Otto cycle, 1310cc
Design Life	40,000 hours before major service
Ignition System	electronic CPU-controlled, high energy spark
Cylinder properties	Bore 74mm x stroke 76mm. Comp ratio 9.5:1
Service interval	1000 hours
Lube oil capacity	10 litres
Weather protection	IP22
Noise	56db
Alternator	4-pole, directly coupled, synchronous, permanent magnet, rotating field, brushless, with F-level insulation.
Directive Conformance	Low Voltage Directive 2006/95/EC EMC Directive 2004/108/EC Machinery Directive 2006/42/EC



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