Industrial Gas Generators

Technical Data

QVT 150 NA

Generating set

Basic technical data

Engine Manufacture	QVT
Engine Model	Q6.13 NA
Number of cylinders	6
Cycle	Four stroke
Induction system	Natural aspirated
Compression ratio	12.6:1/10:1(NG)
Bore	130 mm (5.12 in)
Stroke	160 mm (6.30 in)
Cubic capacity	12.7 litres
Direction of rotation (view from front)	Clockwise
Firing order	1, 5, 3, 6, 2, 4
Lube oil consumption at full load	0.03 kg/h
Alternator Manufacture	Leroy Somer
Alternator Model	LSA 44.3 VL14
Phase	3 Phase
Voltage	400V
Assumed Power factor	0.8

Dimensions and Connections

Gas Connection (NG)	1” BSP
Gas Connection (BG, Low pressure)	2” BSP
Gas Connection (BG, High pressure, Quick-release)	

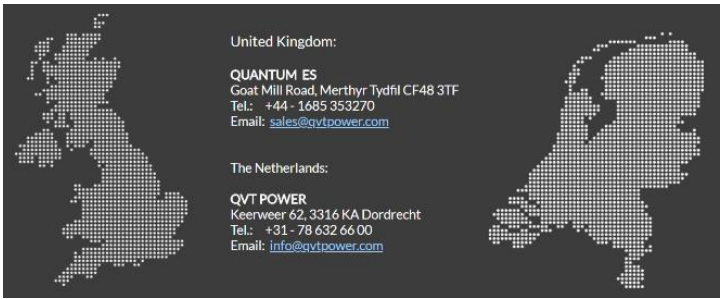
Overall dimensions

Height	2500 mm
Length	4440 mm
Width	1350 mm
Weight	4100kg(approx.)

If the engine is to operate in ambient conditions other than those of the test conditions, suitable adjustments must be made for the changes. For full details, contact QES or KVT

General installation	**Units**			**50 Hz**						**60 Hz**					
Fuel Type	-			NG			BG (55% CH_4)			NG			BG (55% CH_4)		
Electrical output COP / Consumption 100%	kWe	kVA	M3/h	130	162	41	120	150	70	150	187	46	142	178	80
Electrical output COP / Consumption 75%	kWe	kVA	M3/h	98	122	34	90	113	54	113	142	37	107	134	63
Electrical output COP / Consumption 50%	kWe	kVA	M3/h	65	81	26	60	75	41	76	95	29	71	89	46
Electrical output COP / Consumption 25%	kWe	kVA	M3/h	33	42	17	30	37	30	38	48	20	36	45	29
Exhaust gas outlet temperature (approx.)	˚C			640			660			660			680		
Voltage	V			400			400			480			480		
Power factor	pf			0,8			0,8			0,8			0,8		
Current	A			234			216			226			215		
Actual alternator efficiency	% @ pf 0.8			>95			>95			>95			>95		

Caution: The airflows shown in this table will provide acceptable cooling for an open power unit operating in ambient temperatures of up to 53 °C (127 °F) or 46 °C (114.8 °F) if a canopy is fitted. If the power unit is to be enclosed totally, a cooling test should be done to check that the engine cooling is acceptable.
If there is insufficient cooling, contact us.



Construction
• Rigid base frame made of profiled steel.
• Direct coupled engine and generator assembly with flexible drive plate.
• Engine generator assembly flexibly mounted on the base frame.
• • Electrical equipment installed in a sheet steel cabinet that forms an integral part of the canopy.
• Air movement within the canopy controlled by a engine driven fan.
• All connection points at one end of the canopy.
• Primary exhaust silencer mounted within the canopy with a vertical exit at the end.

Canopy
• Highly effective sound enclosure in packs of sheet steel construction, powder coated. Air passages acoustically lined and waterproof.

Exhaust System
• Steel mounted within the canopy.
• The lubrication system comprises a wet sump system with full flow oil pump.

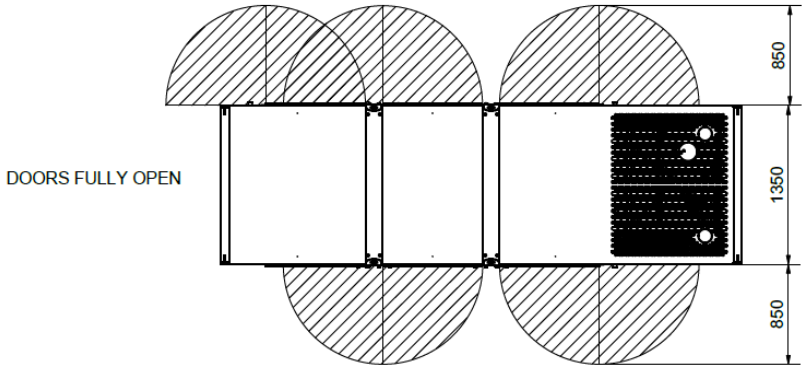
Control Panel
• Sheet metal enclosure mounted within and forming an integral part of the canopy (1000x800x210mm). PLC based system enables auto and manual control for start/stop, voltage control, mains synchronization, load control, Remote control Data access through Ethernet, HMI graphic interface to view and set parameters.

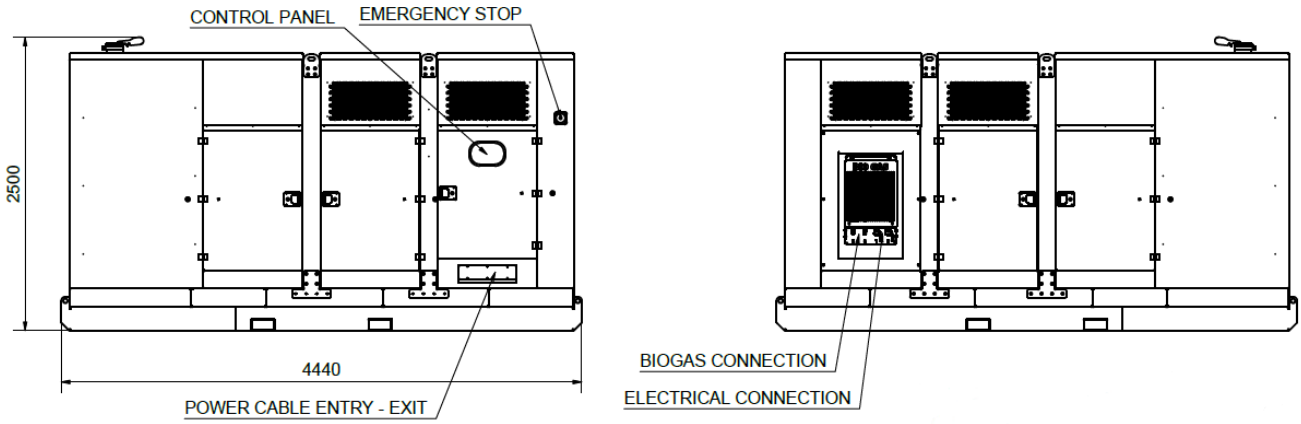
Engine control
• Start/stop, engine speed control, monitoring for engine coolant inlet and outlet temperatures and exhaust temperature.

Alternator control
• Control of the alternator mounted AVR for voltage output, power output and Power Factor.

Emergency stop
Canopy mounted push button and external link.

Emissions
• Standard 3 way catalyst
• NOx emission <10 mg/Nm^3





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