

Nanni Diesel marine Generating set QMS16M

16.2 kW max at 1500 rpm

Engine base

- 4 strokes Diesel engine tested in all marine or industrial applications throughout the world.
- Engine block in cast iron tunnel type and timing gear.

Injection and combustion system

- The Super Glow System comes as standard equipment to start the engine in cold temperatures.
- The E-TVCS injection system produces an ideal air/fuel mixture by creating three vortices in the combustion chamber. The combustion efficiency is improved, resulting in low fuel consumption.

Cooling system

- Cooling is ensured by heat exchange between coolant and seawater in an heat exchanger, or via a Keel Cooling system.
- Seawater pump with rubber impeller.

Generator

- Delivering a continuous power of 13.9 kW and able to provide up to 16.2 kW.
- IP21 protection (additional level available on demand).

Engine main features

- Kubota base Diesel engine
- 4 cylinders in line
- Closed cooling with heat exchanger
- Safety shutdowns on low oil pressure and high coolant temperature
- Rubber mounts

Generator main features

- Class H insulation
- 50 Hz
- Voltage accuracy of $\pm 1.5\%$
- Radio suppression
- Electronic regulator

Optional Accessories

- Seawater hoses
- Seawater filter
- Siphon breaker
- Fuel hoses
- Exhaust hoses
- Fuel pre-filter
- Extension harness by meter

Genset Ratings

Voltage (V)	Frequency (Hz)	Amperes (A)		Power * (kW)	
		max.	cont.	max.	cont.
230	50	70.4	60.4	16.2	13.9

Weight and Dimensions

Dry weight (kg-lb)	328 - 723
Length (mm-in)	1014 - 39.9
Width (mm/-in)	548 - 21.57
Height (mm-in)	691 - 27.2

* Single-phased output with power factor $\cos \phi = 1$

Generating set QMS16M

Engine specifications

Engine base	Kubota
Cycle	4 strokes Diesel
Number of cylinders	4 in line
Displacement (cm ³ -in ³)	2197 - 137.07
Bore and stroke (mm-in)	87 x 92,4 - 3.42 x 3.63
Combustion system	Indirect (E-TVCS)
Rated rpm	1500
Continuous power at rated rpm (kW)	17.2
Intake	Natural

Fuel system

Fuel injection pressure (bar)	140
Fuel injection pump	Type Bosch PER4M mini
Fuel pump priming	Mechanical
Governor type	All speed mechanical

Cooling system

Seawater pump type	Neoprene rotor
Fresh water pump type	Coaxial alternator driven
Fresh water capacity (l)	9
Exhaust manifold	Fresh water cooled
Exhaust elbow	Water injected
Max allowable back pressure (bar)	0.127
Max exhaust gas temperature (°C)	550

Lubrication system

Oil pan capacity (l)	7.5
Oil type	API-CD mini 15W40
Oil filter	Full flow type filter
Lubrication system	Forced by trochoid pump

Engine Electrical System

Engine alternator (V-A)	12 - 40
Battery recommended (Ah)	120
Starter motor (V-kW)	12 - 1

Fuel consumption

Fuel consumption at full load (l/h)	4.8
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Air requirements

Combustion air at 25°C (m ³ /h)	90
Flow for the evacuation of radiant heat (m ³ /h)	156

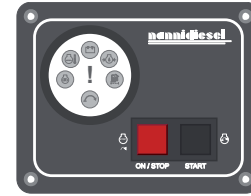
Installation data

Exhaust connexion (mm-in)	60 - 2.36
Fuel connexion (mm-in)	8 - 0.31
Fuel pump - Max suction height (m)	0.5 (standard pump) 1.8 (with add. electrical pump)
Sea Water connexion (mm-in)	32 - 1.26
Engine Operating Angle	15° continuous (30° maxi)

Instrument panel

To control the generating set, 2 models of instruments panel are available. Robust and easy to use, they bring together the essential functions to operate the generator: button start and stop, warning lights on oil pressure and coolant temperature, preheat warning light and battery charge warning light. The Luxe GE panel is also equipped with an oil pressure indicator and a coolant temperature indicator.

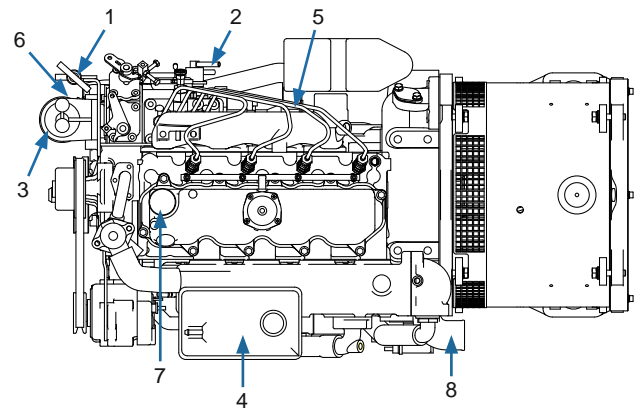
Eco GE



Luxe GE



Main components



- | | |
|-------------------|------------------|
| 1. Oil drain pump | 5. Seawater pump |
| 2. Fuel feed pump | 6. Oil filter |
| 3. Fuel filter | 7. Oil filling |
| 4. Expansion tank | 8. Exhaust elbow |

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