



## Nanni Diesel marine Generating set QMS7.5M

7.5 kW max at 1500 rpm

### Kubota Base

The QMS7.5M Genset is equipped with a sturdy and efficient Kubota base engine, tested in all marine or industrial applications throughout the world.

The E-TVCS combustion system also allows the QMS7.5M to comply with the most stringent emissions regulations while reducing noise level and maintaining low fuel consumption.

### Reliability and longevity

Its 1123 cc and its Nanni Compact Cooling® heat exchange cooling system, bring to this generator set a maximal life span and a smooth functioning.

Maintenance operations are simple and quick, thanks to, among other things, a timing gear and an easy access to the various service points.

### Onboard power supply and comfort

The light and compact alternator delivers a single phase tension of 230 Volts.

It is also equipped with an electronic regulator which, together with the constant engine speed, provides an excellent stability to frequency and tension.

### Soundproof system

In order to function with the highest discretion aboard every boat, the QMS7.5M genset is available with a soundshield which gives it a maximum threshold of 54 dB at 7 meters - the equivalent of a dishwasher.

Electric connections, water inlet and outlet joints as well as the exhaust pipe are integrated into the cocoon.

Available in Keel Cooling version

Available in two pole version

Mecc Alte alternator

Eco GE panel comes standard

### Engine main features

- Kubota base Diesel engine
- E-TVCS injection system
- 3 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 regulation of  $\pm 5\%$
- Radio suppression
- Frame and shaft in steel
- End-brackets in aluminium
- Electronic regulator
- IP21 protection (higher levels available upon request)

### Genset Ratings

| Voltage (V) | Frequency (Hz) | Amperes (A) |       | Power * (kW) |       |
|-------------|----------------|-------------|-------|--------------|-------|
|             |                | max.        | cont. | max.         | cont. |
| 230         | 50             | 32.6        | 28.7  | 7.5          | 6.6   |

### Weight and Dimensions

|                    | Without Sound Shield | With Sound Shield ** |
|--------------------|----------------------|----------------------|
| Dry weight (kg/lb) | 224 / 493.8          | 260 / 573.2          |
| Length (mm/in)     | 840 / 33             | 931 / 36.6           |
| Width (mm/in)      | 489 / 19.25          | 633 / 24.9           |
| Height (mm/in)     | 620 / 24.4           | 686 / 27             |

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

### Optional Accessories

- Sound shield \*\*
- Seawater hoses
- Seawater filter
- Siphon breaker
- Fuel hoses
- Exhaust hoses
- Fuel pre-filter
- Extension by meter

# Generating set QMS7.5M

## Engine specifications

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Engine base                                      | Kubota D1105BG          |
| Cycle                                            | 4 strokes Diesel        |
| Number of cylinders                              | 3 in line               |
| Displacement (cm <sup>3</sup> -in <sup>3</sup> ) | 1123 - 18.40            |
| Bore and stroke (mm-in)                          | 78 x 78.4 - 3.07 x 3.08 |
| Combustion system                                | Indirect (E-TVCS)       |
| Rated rpm                                        | 1500                    |
| Max power at rated rpm (hp)                      | 10.2                    |
| Intake                                           | Natural                 |

## Fuel system

|                               |                             |
|-------------------------------|-----------------------------|
| Fuel injection pressure (bar) | 140                         |
| Fuel injection pump           | In line, Type Bosch MD 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)          | 5                         |
| 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) | 4.5                     |
| 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) | 75      |
| Starter motor (V-kW)     | 12 - 1  |

## Fuel consumption

|                                     |     |
|-------------------------------------|-----|
| Fuel consumption at full load (l/h) | 2.5 |
|-------------------------------------|-----|

## Air requirements

|                                             |     |
|---------------------------------------------|-----|
| Combustion air at 25°C (m <sup>3</sup> /h)  | 50  |
| Fresh air intake expanse (cm <sup>2</sup> ) | 150 |
| Hot air outlet expanse (cm <sup>2</sup> )   | 100 |

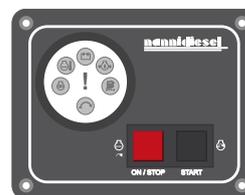
## Installation data

|                                    |                                                        |
|------------------------------------|--------------------------------------------------------|
| Exhaust connexion (mm-in)          | 50 - 2                                                 |
| Fuel connexion (mm-in)             | 8 - 0.31                                               |
| Fuel pump - Max suction height (m) | 0.5 (standard pump)<br>1.8 (with add. electrical pump) |
| Sea Water connexion (mm-in)        | 25 - 1                                                 |
| 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.

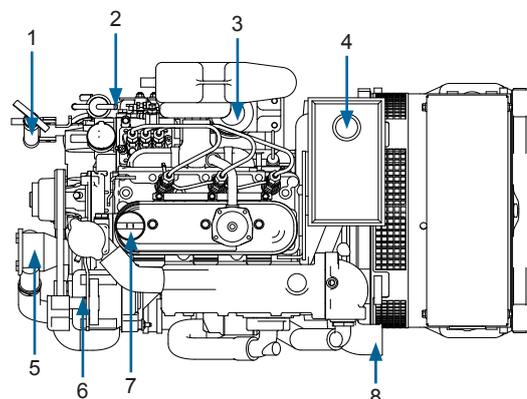
Eco GE



Luxe GE



## Main components



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

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