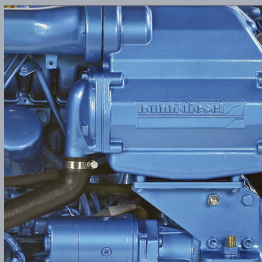




# PRODUCT GUIDE



ENERGY CREATOR

SINCE 1952

[www.nannidiesel.com](http://www.nannidiesel.com)

# Nanni power systems

With a range of high quality propulsion engines and generator sets, Nanni is able to provide complete power systems for marine applications.

This product selection guide includes a comprehensive range of propulsion engines from 10 to 760 hp, and marine generator sets from 6 to 500 kW.

This guide is intended to provide an overview of our product range while helping the prospective buyer to select the appropriate Nanni product.

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Despite all the care taken in publishing this brochure, Nanni Industries cannot be held responsible for any error introduced in the content.

In the interest of progress, please kindly note that model designations, ratings and specifications are subject to change without prior notice.

# Nanni at a glance

Nanni is an independent international company founded in 1952 and is now France's leading marine engine manufacturer.

The company designs, develops, manufactures and markets engines and generator sets designed specifically for the challenge of marine applications. Nanni also provides all related technologies, including fuel systems, controls, air handling, filtration, emission solutions and electrical power generation systems. With its comprehensive product range, Nanni offers content in all power and application categories, and is able to provide a full range of solutions, from bobtail engines to complete power systems.

Headquartered in France, the production unit and the design office are certified as compliant with ISO 9001 standards.

Learn more about Nanni on [nannidiesel.com](http://nannidiesel.com)

## Worldwide customer support network

Nanni products are supported at every major port thanks to a worldwide network of independent distributor facilities and dealer locations, delivering the expertise and parts needed to keep customer's products running smoothly.

In choosing a Nanni product, you gain an extensive worldwide sales and service network to help you achieve maximum engine life and sustained reliability.



# Sail with confidence

Nanni has been a global marine engine manufacturer for over 60 years, offering customers industry-leading durability and reliability. As a result, many of Nanni's legacy engines are still powering boats around the globe.

Known for their reliability, its products are the driving force behind many power systems worldwide. The long and successful partnership with customers including major shipyards and governmental agencies provides further evidence that you can rely on a solid partner.

Robust, efficient & built to last. These are the qualities that have made Nanni's reputation. We design simple, yet effective and reliable products able to withstand the toughest conditions, year after year.

And when it comes to fuel consumption and maintenance costs, Nanni is also an attractive choice. Not only because of products quality, but also thanks to an established know-how in marine power systems and full engineering team support throughout project realization. From the first stage, through the sales process and commissioning, to parts supply, maintenance, repair and upgrade, Nanni offers a full range of services.

**Nanni, your single source for complete power systems.**

# Using this guide

## Propulsion engines

For propulsion engines, the application ratings reflect various boat operation needs. Knowledge of the engine's operating requirements is therefore essential to establish a proper match of engine rating to boat operating requirements.

Consider the expected annual operating hours based on the a 12-month period. Also consider the duty cycle, which refer to the amount of time the engine is required to be operated at rated rpm during a period of time. Then review the presented application ratings and decide which rating best defines the application. Also foresee the regulations that the engine will have to meet. Once you have decided which rating and emission level fit your needs, refer to the specification tables beginning on page 10 for ratings and regulations availability by engine model.

Finally, use the engine model pages for additional information to help you decide which Nanni engine best fits your operating needs. The type of transmissions that are available for each engine are indicated.

More information is provided on specific product brochures available for each engine on [www.nannidiesel.com](http://www.nannidiesel.com).

## Generator sets

For generator sets, first refer to the overview on page 40 and determine the series that best suits your application. Proceed to the sizing step by making an inventory of on-board electrical appliances. Add their rated power together and foresee which appliances will operate simultaneously. Also establish important project parameters such as load capacity, voltage, single or three-phase, maximum allowable voltage and frequency drop, etc.

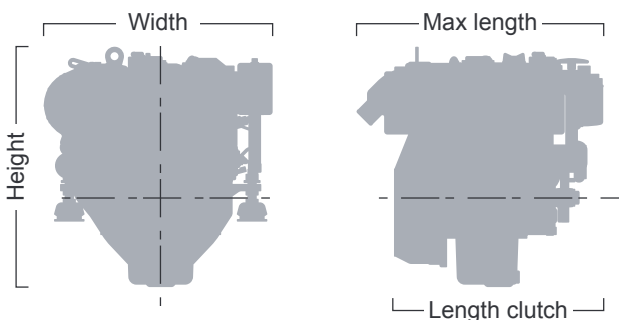
As always, refer to [www.nannidiesel.com](http://www.nannidiesel.com) or consult your Nanni representative for assistance and for the most up-to-date information.

# Dimensions & Weight

Dimensions and weight may vary according to the configuration selected. More detailed information is included within the specific installation schematic for each product.

Stated weight values are based on dry engines including standard equipment without coolant, oil and transmission.

Sizing is defined according to the following schematic diagram:



For propulsion engines, performance data are provided in accordance with ISO 8665-1, as follows:

- kW: Rated engine power in kilowatts
- hp: Rated engine power in metric horsepower
- rpm: Rated engine speed in revolutions per minute
- l/h: Max fuel consumption at rated engine speed in litres per hour. Fuel consumption has a tolerance of +/- 5%

For generator sets, power ratings are given according to ISO 8528-1. Dimensions are given as the maximum overall length, width and height. Weights are based on dry engines, without coolant and oil.

# Ratings outline

For an exact determination of the appropriate rating, contact your local Nanni representative.

## M1 rating

<b>Operating hours</b>	24 hours per day
<b>Load factor <sup>1</sup></b>	Over 65%
<b>Duty cycle <sup>2</sup></b>	Uninterrupted full power
<b>Application example</b>	Line hauls tugs and towboats, trawlers/draggers, displacement hull fishing boats

## M2 rating

<b>Operating hours</b>	Up to 5000 hours per year
<b>Load factor <sup>1</sup></b>	Up to 65%
<b>Duty cycle <sup>2</sup></b>	Full power for no more than 16 hours out of each 24 hours of operation
<b>Application example</b>	Short-range tugs and towboats long-range ferryboats, large passenger vessels and offshore displacement hull fishing boats

## M3 rating

<b>Operating hours</b>	Up to 4000 hours per year
<b>Load factor <sup>1</sup></b>	Up to 50%
<b>Duty cycle <sup>2</sup></b>	Full power for no more than 4 hours out of each 12 hours of operation
<b>Application example</b>	Coastal fishing boats offshore crew boats, research boats. Short range ferryboats and dinner cruise boats



## M4 rating

<b>Operating hours</b>	Up to 3000 hours per year
<b>Load factor <sup>1</sup></b>	Up to 40%
<b>Duty cycle <sup>2</sup></b>	Full power for no more than 1 hour out of each 12 hours of operation
<b>Application example</b>	Inshore crew boats, charter fishing boats, pilot boats, dive boats, and planning hull commercial fishing boats

## M5 rating

<b>Operating hours</b>	Up to 1000 hours per year
<b>Load factor <sup>1</sup></b>	Up to 35%
<b>Duty cycle <sup>2</sup></b>	Full power for no more than 30 minutes out of each 8 hours of operation
<b>Application example</b>	Recreational boats, tactical military vessels and rescue boats

## M6 rating

<b>Operating hours</b>	Up to 500 hours per year
<b>Load factor <sup>1</sup></b>	Up to 35%
<b>Duty cycle <sup>2</sup></b>	Full power for no more than 30 minutes out of each 8 hours of operation
<b>Application example</b>	Recreational boats

<sup>1</sup> Load factor: fuel burned over a period of time divided by the full-power fuel consumption over the same period.

<sup>2</sup> Duty cycle: the remaining operation time must be at or below cruising speeds. Cruising speed is at least 200 rpm below the rated engine speed. No wide-open throttle below rated engine speed.

# Regulations

## Exhaust emissions

### IMO-MARPOL Annex VI

Main international convention concerning the prevention of marine environment pollution by shipping. Only applies to diesel engines above 130 kW.

### EU-Directive 2013/53/EU (RCD 2)

European Union design regulations for recreational craft up to a hull length of 24 m.

### EU-Directive 97/68/EC (NRMM) as amended

The Nonroad Mobile Machinery Directive regulates exhaust emissions from marine propulsion and auxiliary engines used aboard inland waterway vessels operating in the European Community.

### EPA marine Tier 3

Managed by the Environmental Protection Agency of the U.S.A, the EPA certification regulates exhaust emissions from diesel engines installed on U.S. registered marine vessels.

### BSO 2

The BSO standard applies to recreational marine engines operating on lake Constance.

### On-demand certifications

Some regions in the world have local regulations for a specific area or water (ie., NKK, RMRS, CCR, etc.). Contact your Nanni representative for details and availability of further engine certification in these cases.

Certain products may not be available for sale in all areas due to emissions compliance.

# Classification Society

Nanni works with various marine classification societies to allow the use of our engines in vessels designed and built to a society's particular requirements. For more information, please contact your local Nanni representative.

## SOLAS

The SOLAS (Safety Of Life At Sea) is an international treaty that prescribes several rules regarding the safety of ships. Our SOLAS approved engines are designed and manufactured to meet these regulations for use in life, rescue and crew tender boats. Special features do include:

- Immediate starting in very low temperatures (down to  $-15^{\circ}\text{C}$ , and  $-25^{\circ}\text{C}$  with additional heater).
- Operation at an angle up to  $30^{\circ}$  in intermittent operation and  $20^{\circ}$  in continuous operation.
- All SOLAS approved engines have been engineered to be installed in free fall life boats and are able to withstand a drop from a height of more than 30 meters.

# Propulsion engines

The references indicated hereafter identify the regulations each propulsion engine will be certified to:

1. IMO MARPOL Annex VI compliant
2. RCD2 2013/53/EU
3. NRMM 97/68/EC AS AMENDED - OK FOR RCD2 2013/53/EU AND CCNR2
4. EPA Marine Tier 3
5. BSO 2

Engine	Rated Power [hp]	Rating	Emissions level	Page
N2.10	10	M5	2, 4, 5	14
N2.14	14	M5	2, 4, 5	15
N3.21	21	M5	2, 4, 5	16
N3.30	29	M5	2, 4, 5	17
N4.38	37.5	M4	2, 4, 5	18
N4.40	40	M4	2, 4	19
N4.50	50	M4	2, 4, 5	20
N4.65	59	M4	2, 4	21
N4.115	115	M4	2, 4, 5	23
N4.140	135	M5	2, 4, 5	23
T4.205	200	M6	1, 2, 4, 5	27
T4.230	230	M6	1, 2, 4, 5	27
T4.270	265	M6	1, 2, 4, 5	27
T8V.320	320	M6	1, 2, 4	28
T8V.350	349	M6	1, 2, 4	28
T8V.370	370	M6	1, 2, 4	28

<b>Engine</b>	<b>Rated Power [hp]</b>	<b>Rating</b>	<b>Emissions level</b>	<b>Page</b>
N5.150	152	M4	-	29
N5.140 E	137	M3	3	29
N5.160 CR2	160	M1	1, 3, 4	29
N5.180 CR2	182	M2	1, 3, 4	29
N5.200 CR2	202	M3	1, 3, 4	29
N5.230 CR2	228	M4	1, 3, 4	29
N6.200	202	M3	-	31
N6.240 E	239	M3	1, 3	31
N6.270 E	270	M4	1, 3	31
N6.300 E	304	M5	1, 3	31
N6.285 CR2	284	M2	1, 3, 4	31
N6.325 CR2	325	M3	1, 3, 4	31
N6.360 CR2	360	M4	1, 3, 4	31
N6.405 CR2	405	M5	1, 3, 4	31
N9.330 CR2	329	M1	1, 3, 4	32
N9.380 CR2	380	M2	1, 3, 4	32
N9.430 CR2	431	M3	1, 3, 4	32
N9.510 CR2	507	M4	1, 3, 4	32
N9.600 CR2	560	M5	1, 3, 4	32
N13.370 CR1	370	M1	1, 3, 4	33
N13.430 CR2	431	M1	1, 3, 4	33
N13.510 CR2	507	M2	1, 3, 4	33
N13.580 CR2	583	M3	1, 3, 4	33
N13.660 CR2	659	M4	1, 3, 4	33
N13.800 CR2	760	M5	1, 3, 4	33

# Sail Drive propulsion system

Available for engines up to 60 hp, the Sail Drive transmission system provides to both the OEM manufacturer and boat owners a unique, still proven design.

It offers quiet and virtually vibration free operation, with very low water resistance under sail, plus increased propulsion efficiency due to the thrust direction being parallel to the boat's waterline.



## Features & Benefits

- Installation and service made easy in comparison to conventional inboard shaft drive installations,
- Forced lubrication system, integrated oil cooling system,
- Structure made of high strength aluminium alloy with corrosion resistant protection, electrically isolated from the engine,
- Can be matched with a variety of fixed or foldable propeller configurations.

## Technical characteristics

Reduction ratio	2.15 : 1	2.38 : 1
Max input power	66.6 hp [49 kW] @ 3000 rpm	59.8 hp [44 kW] @ 3600 rpm
Dry weight [kg]	35	
Oil capacity [litre]	3	
Oil type	ATF	
Propeller shaft	17 standard spline	
Propeller diameter	From 13" to 18" maxi	

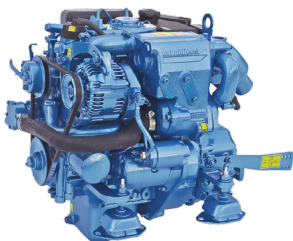


# N2.10

## Propulsion

Shaft Line

Sail Drive



## Performance data

Model	kW	hp	rpm	l/h	Rating
N2.10	7.36	10	3000	2.4	M5

## Engine overview

<b>Configuration</b>	2 cylinders in line 4 stroke Diesel
<b>Fuel system</b>	Mechanical Indirect (E-TVCS)
<b>Displacement</b>	0.479 l [29.2 in]
<b>Bore &amp; Stroke</b>	67 x 68 mm [2.64 x 2.68 in]
<b>Intake</b>	Naturally aspirated
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox</b>	Shaft line or Sail Drive
<b>Emissions</b>	RCD2 2013/53/EU, EPA marine Tier 3, BSO 2

## Dimensions & Weight

<b>Max length</b>	476 mm [18.7 in]
<b>Length clutch</b>	399 mm [15.7 in]
<b>Width</b>	428 mm [16.9 in]
<b>Height</b>	495 mm [19.5 in]
<b>Dry weight</b>	78 kg [172 lbs]

## Features & Benefits

- Kubota engine base
- Low rated rpm
- Low fuel consumption
- Gear driven valve train
- Easy routine servicing
- Class-leading package size & Weight
- Installation flexibility
- Repowering made easy
- Low installation costs

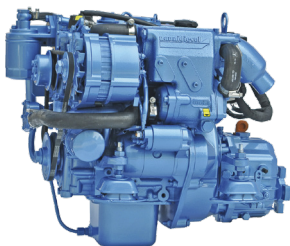


# N2.14

## Propulsion

Shaft Line

Sail Drive



## Performance data

Model	kW	hp	rpm	l/h	Rating
N2.14	10.3	14	3600	3.6	M5

## Engine overview

<b>Configuration</b>	2 cylinders in line 4 stroke Diesel
<b>Fuel system</b>	Mechanical Indirect (E-TVCS)
<b>Displacement</b>	0.479 l [29.2 in]
<b>Bore &amp; Stroke</b>	67 x 68 mm [2.64 x 2.68 in]
<b>Intake</b>	Naturally aspirated
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox</b>	Shaft line or Sail Drive
<b>Emissions</b>	RCD2 2013/53/EU, EPA marine Tier 3, BSO 2

## Dimensions & Weight

<b>Max length</b>	510 mm [20.1 in]
<b>Length clutch</b>	433 mm [17.1 in]
<b>Width</b>	463 mm [18.2 in]
<b>Height</b>	506 mm [19.9 in]
<b>Dry weight</b>	83 kg [183 lbs]

## Features & Benefits

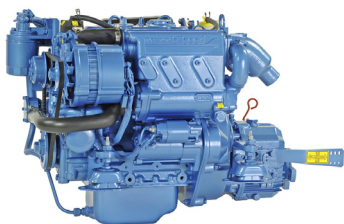
- Kubota engine base
- Robust design
- Low fuel consumption
- Excellent power to weight ratio
- Gear driven valve train
- Extensive range of options
- Repowering made easy
- Low installation costs
- Installation flexibility
- Easy routine servicing

# N3.21

## Propulsion

Shaft Line

Sail Drive



## Performance data

Model	kW	hp	rpm	l/h	Rating
N3.21	15.4	21	3600	5	M5

## Engine overview

<b>Configuration</b>	3 cylinders in line 4 stroke Diesel
<b>Fuel system</b>	Mechanical Indirect (E-TVCS)
<b>Displacement</b>	0.719 l [43.9 in]
<b>Bore &amp; Stroke</b>	67 x 68 mm [2.64 x 2.68 in]
<b>Intake</b>	Naturally aspirated
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox</b>	Shaft line or Sail Drive
<b>Emissions</b>	RCD2 2013/53/EU, EPA marine Tier 3, BSO 2

## Dimensions & Weight

<b>Max length</b>	578 mm [22.8 in]
<b>Length clutch</b>	500 mm [19.7 in]
<b>Width</b>	473 mm [18.6 in]
<b>Height</b>	506 mm [19.9 in]
<b>Dry weight</b>	97 kg [214 lbs]

## Features & Benefits

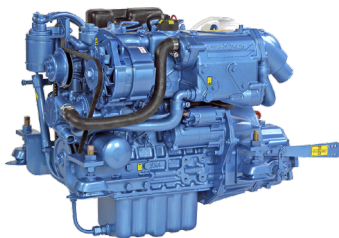
- Kubota engine base
- Low fuel consumption
- Installation flexibility
- Low installation costs
- Gear driven valve train
- Excellent power to weight ratio
- Extensive range of options
- Repowering kits
- Easy routine servicing

# N3.30

## Propulsion

Shaft Line

Sail Drive



## Performance data

Model	kW	hp	rpm	l/h	Rating
N3.30	21.3	29	3600	7.4	M5

## Engine overview

<b>Configuration</b>	3 cylinders in line 4 stroke Diesel
<b>Fuel system</b>	Mechanical Indirect (E-TVCS)
<b>Displacement</b>	1.123 l [68.5 in]
<b>Bore &amp; Stroke</b>	78 x 78.4 mm [3.07 x 3.09 in]
<b>Intake</b>	Naturally aspirated
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox</b>	Shaft line or Sail Drive
<b>Emissions</b>	RCD2 2013/53/EU, EPA marine Tier 3, BSO 2

## Dimensions & Weight

<b>Max length</b>	667 mm [26.2 in]
<b>Length clutch</b>	570 mm [22.4 in]
<b>Width</b>	467 mm [18.39 in]
<b>Height</b>	589 mm [23.2 in]
<b>Dry weight</b>	136 kg [300 lbs]

## Features & Benefits

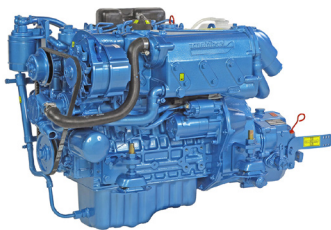
- Kubota engine base
- Low fuel consumption
- Gear driven valve train
- Easy routine servicing
- Repowering made easy
- Installation flexibility
- Extensive range of options
- Low installation costs
- Class-leading package size
- SOLAS approved version available

# N4.38

## Propulsion

Shaft Line

Sail Drive



## Performance data

Model	kW	hp	rpm	l/h	Rating
N4.38	27.6	37.5	3000	8.7	M4

## Engine overview

<b>Configuration</b>	4 cylinders in line 4 stroke Diesel
<b>Fuel system</b>	Mechanical Indirect (E-TVCS)
<b>Displacement</b>	1.498 l [91.4 in]
<b>Bore &amp; Stroke</b>	78 x 78.4 mm [3.07 x 3.08 in]
<b>Intake</b>	Naturally aspirated
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox</b>	Shaft line or Sail Drive
<b>Emissions</b>	RCD2 2013/53/EU, EPA marine Tier 3, BSO 2

## Dimensions & Weight

<b>Max length</b>	749 mm [29.5 in]
<b>Length clutch</b>	655 mm [25.8 in]
<b>Width</b>	465 mm [18.3 in]
<b>Height</b>	605 mm [23.8 in]
<b>Dry weight</b>	139 kg [306 lbs]

## Features & Benefits

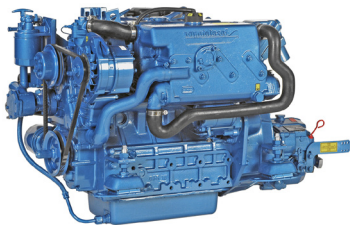
- Kubota engine base
- Robust design
- Low fuel consumption
- Low rated rpm
- High power density
- Installation flexibility
- Extensive range of options
- Low installation costs
- Easy routine servicing
- Gear driven valve train
- SOLAS approved version available

# N4.40

## Propulsion

Shaft Line

Sail Drive



## Performance data

Model	kW	hp	rpm	l/h	Rating
N4.40	29.4	40	2800	9.3	M4

## Engine overview

<b>Configuration</b>	4 cylinders in line 4 stroke Diesel
<b>Fuel system</b>	Mechanical Indirect (E-TVCS)
<b>Displacement</b>	1.999 l [122 in]
<b>Bore &amp; Stroke</b>	83 x 92.4 mm [3.26 x 3.63 in]
<b>Intake</b>	Naturally aspirated
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox</b>	Shaft line or Sail Drive
<b>Emissions</b>	RCD2 2013/53/EU, EPA marine Tier 3

## Dimensions & Weight

<b>Max length</b>	763 mm [30 in]
<b>Length clutch</b>	719 mm [28.3 in]
<b>Width</b>	544 mm [21.4 in]
<b>Height</b>	623 mm [24.5 in]
<b>Dry weight</b>	214 kg [472 lbs]

## Features & Benefits

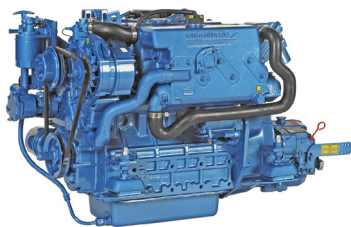
- Kubota engine base
- Low rated rpm
- Extensive range of options
- Low fuel consumption
- Gear driven valve train
- Installation flexibility
- Repowering made easy
- Low installation costs
- Easy routine servicing
- SOLAS approved version available

# N4.50

## Propulsion

Shaft Line

Sail Drive



## Performance data

Model	kW	hp	rpm	l/h	Rating
N4.50	36.8	50	2800	11.7	M4

## Engine overview

<b>Configuration</b>	4 cylinders in line 4 stroke Diesel
<b>Fuel system</b>	Mechanical Indirect (E-TVCS)
<b>Displacement</b>	2.197 l [134.1 in]
<b>Bore &amp; Stroke</b>	87 x 92.4 mm [3.43 x 3.63 in]
<b>Intake</b>	Naturally aspirated
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox</b>	Shaft line or Sail Drive
<b>Emissions</b>	RCD2 2013/53/EU, EPA marine Tier 3, BSO 2

## Dimensions & Weight

<b>Max length</b>	763 mm [30 in]
<b>Length clutch</b>	719 mm [28.3 in]
<b>Width</b>	544 mm [21.4 in]
<b>Height</b>	623 mm [24.5 in]
<b>Dry weight</b>	216 kg [476.2 lbs]

## Features & Benefits

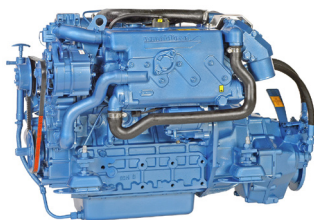
- Kubota engine base
- Robust design
- Low fuel consumption
- Low rated rpm
- High power density
- Installation flexibility
- Extensive range of options
- Low installation costs
- Easy routine servicing
- Gear driven valve train
- SOLAS approved version available

# N4.65

## Propulsion

Shaft Line

Sail Drive



## Performance data

Model	kW	hp	rpm	l/h	Rating
N4.65	43.4	59	2700	13.5	M4

## Engine overview

<b>Configuration</b>	4 cylinders in line 4 stroke Diesel
<b>Fuel system</b>	Mechanical Indirect (E-TVCS)
<b>Displacement</b>	2.434 l [148.5 in]
<b>Bore &amp; Stroke</b>	87 x 102.4 mm [3.43 x 4.03 in]
<b>Intake</b>	Turbocharged
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox</b>	Shaft line or Sail Drive
<b>Emission</b>	RCD2 2013/53/EU, EPA marine Tier 3, BSO 2

## Dimensions & Weight

<b>Max length</b>	732 mm [28.8 in]
<b>Length clutch</b>	697 mm [27.4 in]
<b>Width</b>	505 mm [19.9 in]
<b>Height</b>	632 mm [24.9 in]
<b>Dry weight</b>	248 kg [546.75 lbs]

## Features & Benefits

- Kubota engine base
- Class-leading package size
- High power density
- Extensive range of options
- Low fuel consumption
- Repowering made easy
- Low installation costs
- Gear driven valve train
- Easy routine servicing
- SOLAS approved version available
- Installation flexibility

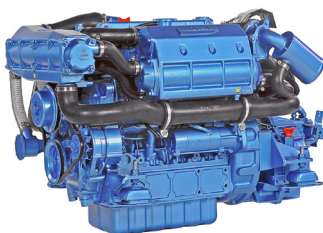




# N4.115/140

Propulsion

Shaft Line



## Performance data

Model	kW	hp	rpm	l/h	Rating
N4.115	84.6	115	2600	24.1	M4
N4.140	99.4	135	2600	28.7	M5

## Engine overview

<b>Configuration</b>	4 cylinders in line 4 stroke Diesel
<b>Fuel system</b>	Mechanical Direct (E-CDIS)
<b>Displacement</b>	3.769 l [230 cu in]
<b>Bore &amp; Stroke</b>	100 x 120 mm [3.93 x 4.72 in]
<b>Intake</b>	Turbocharged & Intercooler
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox</b>	Shaft line
<b>Emissions</b>	RCD2 2013/53/EU, EPA marine Tier 3, BSO 2

## Dimensions & Weight

<b>Max length</b>	960 mm [37.8 in]
<b>Length clutch</b>	796 mm [31.3 in]
<b>Width</b>	580 mm [22.8 in]
<b>Height</b>	728 mm [28.7 in]
<b>Dry weight</b>	350 kg [772 lbs]

## Features & Benefits

- Kubota engine base
- Low rated rpm
- Installation flexibility
- Low installation costs
- Easy routine servicing
- Gear driven valve train
- Extensive range of options

# Stern Drive propulsion system

One of the most efficient propulsion systems designed for pleasure planing boat. Combining the best of both worlds, the Stern Drive propulsion system brings inboard reliability together with outboard convenience and space saving.

This system offers boat builders increased design flexibility, more versatility in engine placement and a smaller footprint.

For boat owners, it results in more efficient thrust under power, thanks to the propeller shaft being parallel to the boat's waterline.

As a marine propulsion specialist, Nanni provides an optimal package combining our engines renowned reliability along with **Bravo X One**, **Bravo X Two** or **Bravo X Three** Stern-Drives.



## Features & Benefits

- Ease of installation
- Integrated exhaust system
- Power trim and Power Steering
- Clutch assembly for effortless gear shifting
- Excellent manoeuvrability
- Outperforming a shaft line engine at equal power level
- Mercathode system for protection against galvanic corrosion
- Counter-rotating propeller on twin engine installation
- Aluminium or stainless steel propeller

## Bravo model selection

Each drive has its own characteristics and has been designed for a specific application.

### Bravo X One

- Designed for high speed boats
- Small gearcase for high hydrodynamic performance
- Maximum propeller diameter 16"

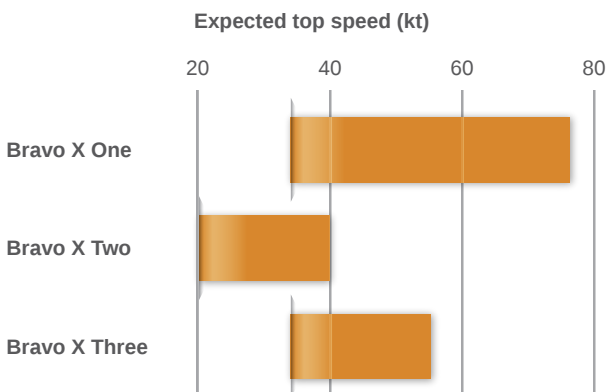
### Bravo X Two

- Intended for heavier & slower applications
- Larger gearcase for use of a 20" diameter propeller
- Heavy duty gearcase shafts, bearings and gears

### Bravo X Three

- Counter-rotating propellers, designed for outstanding acceleration

Boat top speed is a critical parameter when choosing an appropriate Bravo model. As a reference, refer to the graph below when selecting a Bravo model.

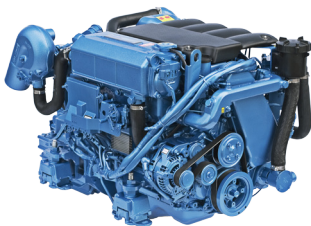


As for any propulsion system, contact Nanni for further assistance when selecting a Stern Drive model and its reduction ratio.



# T4 series

## Propulsion



Shaft Line

Stern Drive

Water Jet

## Performance data

Model	kW	hp	rpm	l/h	Rating
T4.205	147.2	200	3600	40.7	M6
T4.230	169.1	230	3600	46.7	M6
T4.270	194.9	265	3600	53.6	M6

## Engine overview

<b>Configuration</b>	4 cylinders in line 4 stroke Diesel
<b>Fuel system</b>	Common Rail Direct injection
<b>Displacement</b>	2.982 l [182 cu in]
<b>Bore &amp; Stroke</b>	96 x 103 mm [3.78 x 4.06 in]
<b>Intake</b>	Turbocharged & Intercooler
<b>Cooling</b>	Closed cooling with heat exchanger
<b>Gearbox</b>	Shaft line, Stern Drive or Water jet
<b>Emissions</b>	IMO Annex VI compliant, RCD2 2013/53/EU, EPA marine Tier 3, BSO 2

## Dimensions & Weight

<b>Max length</b>	1042 mm [41 in]
<b>Length clutch</b>	800 mm [31.5 in]
<b>Width</b>	702 mm [27.6 in]
<b>Height</b>	738 mm [29 in]
<b>Dry weight</b>	350 kg [771.6 lbs]

## Features & Benefits

- Toyota engine base
- Robust design
- Compact package
- High power density
- Easy routine servicing
- Installation flexibility
- 4 valves per cylinder
- 2 balancing shafts

# T8V series

Propulsion

Shaft Line

Water Jet



## Performance data

Model	kW	hp	rpm	l/h	Rating
T8V.320	235	320	3800	40.7	M6
T8V.350	257	349	3800	46.7	M6
T8V.370	272	370	3800	53.6	M6

## Engine overview

<b>Configuration</b>	8 cylinders V design 90° 4 stroke Diesel
<b>Fuel system</b>	Common Rail Direct injection
<b>Displacement</b>	4.5 l [275 cu in]
<b>Bore &amp; Stroke</b>	86 x 96 mm [3.39 x 3.78 in]
<b>Intake</b>	Twin turbocharger & Intercooler
<b>Cooling</b>	Closed cooling with heat exchanger
<b>Gearbox</b>	Shaft line, Stern Drive or Water jet
<b>Emissions</b>	IMO Annex VI compliant, RCD2 2013/53/EU, EPA marine Tier 3

## Dimensions & Weight

<b>Max length</b>	1389 mm [54.6 in]
<b>Length clutch</b>	1032 mm [40.6 in]
<b>Width</b>	841 mm [33.1 in]
<b>Height</b>	756 mm [29 in]
<b>Dry weight</b>	435 kg [959 lbs]

## Features & Benefits

- Toyota engine base
- Robust design
- Compact package
- High power density
- Easy routine servicing
- Installation flexibility
- 4 valves per cylinder
- Internal balancers

# N5 series

Propulsion

Shaft Line

Water Jet



## Performance data

Model	kW	hp	rpm	Rating	Emissions
N5.150	112	152	2600	M4	-
N5.140 E	101	137	2600	M3	3
N5.160 CR2	119	160	2300	M1	1, 3, 4
N5.180 CR2	134	182	2400	M2	1, 3, 4
N5.200 CR2	149	202	2500	M3	1, 3, 4
N5.230 CR2	168	228	2600	M4	1, 3, 4

## Engine overview

<b>Configuration</b>	4 cylinders in line 4 stroke Diesel
<b>Fuel system *</b>	Mechanical direct injection EDC Common Rail Direct injection
<b>Displacement</b>	4.5 l [276 cu in]
<b>Bore &amp; Stroke</b>	106 x 127 mm [4.17 x 5.00 in]
<b>Intake *</b>	Turbocharged Turbo with air-to-coolant aftercooling Turbo with air-to-seawater aftercooling
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox *</b>	Shaft line or Water jet
<b>Emissions *</b>	IMO MARPOL Annex VI compliant, NRMM 97/68/ EC, OK FOR RCD2 2013/53/EU AND CCNR2, EPA Marine Tier 3

## Features & Benefits

- John Deere engine base
- Robust design
- High power density
- Internal balancers
- Easy routine servicing
- Installation flexibility
- Replaceable Wet-type cylinder liners

\* Depending version. Refer to specific leaflet for more informations.







# N6 silver series

Propulsion



Shaft Line

Surface Drive

Water Jet

## Performance data

Model	kW	hp	rpm	Rating	Emissions
N6.200	149	202	2500	M3	-
N6.240 E	176	239	2400	M3	1, 3
N6.270 E	199	270	2500	M4	1, 3
N6.300 E	224	304	2600	M5	1,3
N6.285 CR2	209	284	2500	M2	1, 3, 4
N6.325 CR2	239	325	2600	M3	1, 3, 4
N6.360 CR2	265	360	2700	M4	1, 3, 4
N6.405 CR2	298	405	2800	M5	1, 3, 4

## Engine overview

<b>Configuration</b>	6 cylinders in line 4 stroke Diesel
<b>Fuel system *</b>	Mechanical direct injection EDC Common Rail Direct injection
<b>Displacement</b>	6.8 l [415 cu in]
<b>Bore &amp; Stroke</b>	106 x 127 mm [4.17 x 5.00 in]
<b>Intake *</b>	Turbocharged Turbocharged with air-to-coolant aftercooling Turbocharged with air-to-seawater aftercooling
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox *</b>	Shaft line, Water jet, Surface drive
<b>Emissions *</b>	IMO MARPOL Annex VI compliant, NRMM 97/68/ EC, OK FOR RCD2 2013/53/EU AND CCNR2, EPA Marine Tier 3

## Features & Benefits

- John Deere engine base
- High power density
- Robust design
- Replaceable Wet-type cylinder liners
- Installation flexibility

\* Depending version. Refer to specific leaflet for more informations.

# N9 silver series

## Propulsion

Shaft Line

Surface Drive

Water Jet



## Performance data

Model	kW	hp	rpm	Rating	Emissions
N9.330 CR2	242	329	2100	M1	1, 3, 4
N9.380 CR2	280	380	2200	M2	1, 3, 4
N9.430 CR2	317	431	2300	M3	1, 3, 4
N9.510 CR2	373	507	2400	M4	1, 3, 4
N9.600 CR2	412	560	2500	M5	1, 3, 4

## Engine overview

<b>Configuration</b>	6 cylinders in line 4 stroke Diesel
<b>Fuel system *</b>	Common Rail Direct injection
<b>Displacement</b>	9.0 l [549 cu in]
<b>Bore &amp; Stroke</b>	118.4 x 136 mm [4.66 x 5.35 in]
<b>Intake *</b>	Turbocharged with air-to-coolant aftercooling Turbocharged with air-to-seawater aftercooling
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox *</b>	Shaft line, Water jet, Surface drive
<b>Emissions *</b>	IMO MARPOL Annex VI compliant, NRMM 97/68/EC, OK FOR RCD2 2013/53/EU AND CCNR2, EPA Marine Tier 3

## Features & Benefits

- John Deere engine base
- Robust design
- High power density
- 4 valves per cylinder
- Easy routine servicing
- Installation flexibility
- Replaceable Wet-type cylinder liners

\* Depending version. Refer to specific leaflet for more informations.

# N13 silver series

Propulsion



Shaft Line

Surface Drive

Water Jet

## Performance data

Model	kW	hp	rpm	Rating	Emissions
N13.370 CR1	272	370	1800	M1	1, 3, 4
N13.430 CR2	317	431	1800	M1	1, 3, 4
N13.510 CR2	373	507	1900	M2	1, 3, 4
N13.580 CR2	429	583	2000	M3	1, 3, 4
N13.660 CR2	485	659	2100	M4	1, 3, 4
N13.800 CR2	559	760	2200	M5	1, 3, 4

## Engine overview

<b>Configuration</b>	6 cylinders in line 4 stroke Diesel
<b>Fuel system *</b>	Electronically controlled unit injectors
<b>Displacement</b>	13.5 l [824 cu in]
<b>Bore &amp; Stroke</b>	132 x 165 mm [5.20 x 6.50 in]
<b>Intake *</b>	Turbocharged with air-to-seawater aftercooling
<b>Cooling</b>	Closed cooling with heat exchanger Keel Cooling (optional)
<b>Gearbox *</b>	Shaft line, Water jet, Surface drive
<b>Emissions *</b>	IMO MARPOL Annex VI compliant, NRMM 97/68/ EC, OK FOR RCD2 2013/53/EU AND CCNR2, EPA Marine Tier 3

## Features & Benefits

- John Deere engine base
- Robust design
- High power density
- Directed top-liner cooling
- 4 valves per cylinder
- Installation flexibility
- Replaceable Wet-type cylinder liners

\* Depending version. Refer to specific leaflet for more informations.

## Dimensions & Weight for N5 / N6 / N9 / N13 series

Engine	Length of engine from front end to edge of flywheel housing mm [in]	Width mm [in]	Height mm [in]	Weight kg [lb]
N5.150	885 [34.8]	712 [28]	912 [35.9]	462 [1017]
N5.140 E	885 [34.8]	712 [28]	912 [35.9]	462 [1017]
N5.160 CR2	885 [34.8]	770 [30.3]	964 [37.9]	578 [1274]
N5.180 CR2	885 [34.8]	770 [30.3]	964 [37.9]	578 [1274]
N5.200 CR2	885 [34.8]	770 [30.3]	964 [37.9]	578 [1274]
N5.230 CR2	885 [34.8]	770 [30.3]	964 [37.9]	578 [1274]
N6.200	1152 [45.3]	883 [34.8]	884 [34.8]	735 [1620]
N6.240 E	1152 [45.3]	883 [34.8]	884 [34.8]	735 [1620]
N6.270 E	1152 [45.3]	883 [34.8]	884 [34.8]	735 [1620]
N6.300 E	1152 [45.3]	883 [34.8]	884 [34.8]	735 [1620]
N6.285 CR2	1152 [45.3]	883 [34.8]	884 [34.8]	735 [1620]
N6.325 CR2	1152 [45.3]	883 [34.8]	884 [34.8]	735 [1620]
N6.360 CR2	1152 [45.3]	883 [34.8]	884 [34.8]	735 [1620]
N6.405 CR2	1152 [45.3]	883 [34.8]	884 [34.8]	735 [1620]
N9.330 CR2	1228 [48.3]	840 [33]	951 [37.4]	948 [2090]
N9.380 CR2	1228 [48.3]	840 [33]	951 [37.4]	948 [2090]
N9.430 CR2	1228 [48.3]	840 [33]	951 [37.4]	948 [2090]
N9.510 CR2	1228 [48.3]	840 [33]	951 [37.4]	948 [2090]
N9.600 CR2	1228 [48.3]	840 [33]	951 [37.4]	948 [2090]
N13.370 CR1	1426 [56.1]	1032 [40.6]	1166 [45.9]	1380 [3042]
N13.430 CR2	1426 [56.1]	1032 [40.6]	1143 [45]	1380 [3042]
N13.510 CR2	1426 [56.1]	1032 [40.6]	1143 [45]	1380 [3042]
N13.580 CR2	1426 [56.1]	1032 [40.6]	1143 [45]	1380 [3042]
N13.660 CR2	1426 [56.1]	1032 [40.6]	1143 [45]	1380 [3042]
N13.800 CR2	1426 [56.1]	1032 [40.6]	1143 [45]	1380 [3042]

# Marex Control & Monitoring systems

Full control for any type of vessel. Unrivalled modularity level

As an experienced marine equipment manufacturer, we offer solutions and products such as remote controls, joysticks, ship monitoring and alarm systems. You can take advantage of configuration, parameterization, delivery and commissioning from a single source.

Installation are made easy thanks to the systems modular architecture. We can rapidly determine the required functions and adapt each system to the vessel specific requirements. Both, basic components as well as operating and control modules are quickly coordinated and programmed.

## Control systems

The remote control systems are perfectly tailored to diverse requirements for virtually every type of propulsion and ship, including work vessels with classification, passenger liners and yachts. Whether electronic or electro-mechanical control, the modular system design allows a flexible configuration while easing installation and configuration.

## Alarm & Monitoring systems

Ship alarm and monitoring systems provide structured and clear access to the vast information and functions provided by the different systems on board.

This powerful marine instrument features a clearly arranged, user-friendly design. This permits prompt signaling of safety-related operational data such as overspeed and loss of oil pressure. You can also monitor all operating conditions and operate many systems centrally or automate their control.

# Marex OS III

## Designed to keep the course

The Marex OS III ensures effective control and can be installed in ships with classic reversing gears, jet propulsions and controllable propellers.

The hardware of the Marex OS III consists of only a few modular units that are extremely powerful thanks to their bus connection.



All components are ready to connect, which simplifies the installation in newbuildings and retrofits. All components correspond to the highest demands of safety and fulfill the requirements of the most important classification societies.

## Key features & Advantages

- Multi-engine systems
- Engine control, speed curves and engine stall protection
- Gear operation, reversing maneuver curves
- Bridge components can also be used in the outside area
- Various control head designs
- Dynamic, asymmetric levers
- Integrated keypad
- Easy installation thanks to pre-assembly
- Approval of drawing and FAT upon request

# Marex ECS

## The Easy Control System

The Marex ECS (Easy Control System) is designed for both recreational and work boats.

Easy to operate, unique design, universal possibilities. The Marex ECS meets the highest production and quality standards, with endurance testing of one million lever actuations.

Its hardware comes from proven automotive applications with reliable CAN bus technology, and a self-diagnosis system that sends any alarm to the system. It also provide easy handling resulting in reduced installation and commissioning efforts and uncomplicated operation features.

The enhanced version features a separate backup Hall sensor which makes it even more reliable and safe. The control of the boat will be maintained, even if CAN communication is interrupted.

## Key features & Advantages

- Exclusive chrome surfaces, contrasted with black
- Language-independent icons
- Subtle backlight illumination
- Dynamic, asymmetric levers
- ABYC compliant system
- Plug-and-play connections for ease of installation
- Auto-configuration



# Joystick manoeuvring system

## Manoeuvring with ease

The Joystick Manoeuvring system provides the helmsman with simple and intuitive boat control. The operator moves the joystick and the ship mirrors the movement exactly. The controller automatically compensates for external influences, such as wind or current.



Functional and room-saving, both the joystick and its operating module provides essential functions to operate. The joystick can be used as a separate control element (stand-alone solution) or combined with a control head at a station (pairing). Further functions, such as direct thruster actuation in thruster mode, provide operating comfort and reliability.

## Key features & Advantages

- Modern, ergonomic design
- Intuitive operation
- Direction compensation
- Flexible interface
- Plus-and-play installation
- Configuration, parameterization, delivery, and commissioning from a single source



# Generator sets

The generator set range covers a power range from 6 kW to 500 kW. All generator sets are delivered assembled and ready for installation. As always, Nanni is able to provide all installation related equipment, from fuel tank to exhaust system.

## QMF series

Designed specifically for pleasure duty applications, generators sets of the QMF series come as standard with a sound attenuated enclosure. Both the engine and the alternator are water-cooled, ensuring a maximal life span and smooth functioning.

## QMS series

Alternators used in the QMS range are manufactured by Mecc Alte, a world leader in the production of compact synchronous alternators. Most generator sets of the QMS series are available with an optional sound enclosure.

On both the QMF and QMS range, the sound enclosure is made of insulated panels in painted marine aluminium. with multiple access ports for all necessary connections and maintenance items including lifting visual access.

## QLS series

The QLS generator range comes with Leroy Somer alternators, internationally renowned for built-in quality, reliability and versatility. As well as providing quiet, dependable power for pleasure duty applications, these generator sets are also perfectly suitable for continuous duty applications.

# Generator set range

MODEL		KW*		OUTPUT VOLTS		
50 Hz	60Hz	50 Hz	60 Hz	50 Hz	60 Hz	Page
QMF 6M	n/a	5		230		41
QMS 7.5M	QMS 9M60 <sup>1</sup>	7.5	9.1	230	120	42-46
QMS 10M	QMS 12M60 <sup>1</sup>	10	12	230	120-240	42-46
QMS 16M <sup>2</sup>	QMS 20M60	16.2	19.6	230	120-240	42-46
QMS 25M <sup>2</sup>	QMS 30M60 <sup>1</sup>	25	30.2	230	120-240	43-47
QMS 10T	QMS 12T60 <sup>1</sup>	7.7	11.8	230-400	120-240	43-47
QMS 13T	QMS 16T60 <sup>1</sup>	10.2	11.8	230-400	120-240	43-47
QMS 21T <sup>2</sup>	QMS 25T60	16.7	25.3	230-400	120-240	43-47
QMS 32T <sup>2</sup>	QMS 38T60 <sup>1</sup>	25.5	37.8	230-400	120-240	43-47
QLS 10T	QLS 12T60 <sup>1</sup>	7.9	12.4	230-400	120-240	44-48
QLS 13T	QLS 16T60 <sup>1</sup>	10.7	13.7	230-400	120-240	44-48
QLS 22T <sup>2</sup>	QLS 27T60	17.7	26.8	230-400	120-240	45-49
QLS 32T <sup>2</sup>	QLS 38T60 <sup>1</sup>	25.7	41.3	230-400	120-240	45-49
n/a	QLS 115T60		107		480	49
QLS 47T	n/a	37.8		400		45
QLS 65T	n/a	52		400		45
QLS 102T	n/a	82		400		45

\* Prime power according to ISO 8528-1.

1 EPA Tier 3.

2 NRMM IIIa 97/68/EC as amended-OK FOR CCNR2.

For gensets above QLS 102T, Please contact your Nanni representative.

# QMF series

## 50 Hz Generator Sets



		Model	QMF 6M
Configuration			2 cylinders in line
Engine base			Kubota
Fuel system			Mechanical
Injection system			Indirect
Intake			Naturally aspirated
Displacement	L [cu in]		0.479 [29.2]
Rated speed	rpm		3000
<b>Generator ratings</b>			
Frequency	Hz		50
Continuous power	kW [kVA]		4.6 [4.6]
Prime power	kW [kVA]		5 [5]
Voltage	V		230
Phase			1
Power factor			1
<b>Dimensions &amp; Weight</b>			
Length	mm [in]		650 [25.9]
Width	mm [in]		480 [18.9]
Height	mm [in]		530 [20.9]
Dry weight	kg [lbs]		128 [282]

# QMS series

## 50Hz Generator Sets

		Model	QMS 7.5M	QMS 10M	QMS 16M
Configuration			3 cylinders in line	4 cylinders in line	4 cylinders in line
Engine base			Kubota	Kubota	Kubota
Fuel system			Mechanical	Mechanical	Mechanical
Injection system			Indirect	Indirect	Indirect
Intake			Naturally aspirated	Naturally aspirated	Naturally aspirated
Displacement	L [cu in]		1.1 [68.5]	1.5 [91.4]	2.2 [134]
Rated speed	rpm		1500	1500	1500
Sound Shield option			✓	✓	✓

### Generator ratings

Frequency	Hz		50	50	50
Cont power	kW [kVA]		6.6 [6.6]	8.8 [8.8]	13.9 [13.9]
Prime power	kW [kVA]		7.5 [7.5]	10 [10]	16.2 [16.2]
Voltage	V		230	230	230
Phase			1	1	1
Power factor			1	1	1

### Dimensions without sound enclosure

Length	mm [in]		840 [33.1]	925 [36.4]	1014 [39.9]
Width	mm [in]		489 [19.2]	489 [19.2]	548 [21.6]
Height	mm [in]		620 [24.4]	620 [24.4]	691 [27.2]
Dry weight	kg [lbs]		224 [494]	244 [538]	328 [723]

### Dimensions with sound enclosure

Length	mm [in]		950 [37.4]	1050 [41.3]	1130 [44.5]
Width	mm [in]		540 [21.3]	540 [21.3]	600 [23.6]
Height	mm [in]		710 [28]	710 [28]	700 [27.6]
Dry weight	kg [lbs]		271 [598]	291 [641]	378 [833]

QMS 25M	QMS 10T	QMS 13T	QMS 21T	QMS 32T
4 cylinders in line	3 cylinders in line	4 cylinders in line	4 cylinders in line	4 cylinders in line
Kubota	Kubota	Kubota	Kubota	Kubota
Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Indirect	Indirect	Indirect	Indirect	Indirect
Naturally aspirated	Naturally aspirated	Naturally aspirated	Naturally aspirated	Naturally aspirated
2.2 [134]	1.1 [68.5]	1.5 [91.4]	2.2 [134]	3.3 [202.5]
1500	1500	1500	1500	1500
✓	✓	✓	✓	-

50	50	50	50	50
23 [23]	6.8 [8.5]	9.1 [11.4]	14.3 [17.9]	23.2 [29]
25 [25]	7.7 [9.6]	10.2 [12.8]	16.7 [20.9]	25.5 [31.9]
230	230-400	230-400	230-400	230-400
1	3	3	3	3
1	0.8	0.8	0.8	0.8

1304 [51.3]	840 [33.1]	925 [36.4]	1014 [39.9]	1304 [51.3]
636 [25]	489 [19.2]	489 [19.2]	548 [21.6]	636 [25]
766 [30.1]	620 [24.4]	620 [24.4]	691 [27.2]	766 [30.1]
378 [833]	224 [494]	244 [538]	328 [723]	378 [833]

1590 [62.6]	950 [37.4]	1050 [41.3]	1130 [44.5]	1590 [62.6]
750 [29.5]	540 [21.3]	540 [21.3]	600 [23.6]	750 [29.5]
900 [35.4]	710 [28]	710 [28]	700 [27.6]	900 [35.4]
550 [1213]	271 [598]	291 [641]	378 [833]	550 [1213]

# QLS series

## 50 Hz Generator Sets

Model		QLS 10T	QLS 13T	QLS 22T
Configuration		3 cylinders in line	4 cylinders in line	4 cylinders in line
Engine base		Kubota	Kubota	Kubota
Fuel system		Mechanical	Mechanical	Mechanical
Injection system		Indirect	Indirect	Indirect
Air intake		Naturally aspirated	Naturally aspirated	Naturally aspirated
Displacement	L [cu in]	1.1 [68.5]	1.5 [91.4]	2.2 [134]
Rated speed	rpm	1500	1500	1500
<b>Generator ratings</b>				
Frequency	Hz	50	50	50
Continuous pwr	kW [kVA]	7 [8.8]	9.5 [11.9]	15.1 [18.9]
Prime power	kW [kVA]	7.9 [9.9]	10.7 [13.4]	17.7 [22.1]
Voltage	V	400	400	400
Phase		3	3	3
Power factor		0.8	0.8	0.8
<b>Dimensions</b>				
Length	mm [in]	959 [37.8]	1081 [42.5]	1167 [46.6]
Width	mm [in]	489 [19.3]	486 [19.1]	548 [21.6]
Height	mm [in]	624 [24.6]	620 [24.4]	692 [27.2]
Dry weight	kg [lbs]	251 [553]	264 [582]	360 [794]

QLS 32T	QLS 47T	QLS 65T	QLS 102T
4 cylinders in line	4 cylinders in line	4 cylinders in line	6 cylinders in line
Kubota	Kubota	John Deere	John Deere
Mechanical	Mechanical	Mechanical	Mechanical
Indirect	Direct	Direct	Direct
Naturally aspirated	Turbo	Turbo	Turbo
3.3 [202.5]	3.8 [230]	4.5 [276]	6.8 [414]
1500	1500	1500	1500
50	50	50	50
23.4 [29.2]	34.4 [43]	52 [65]	82 [102.5]
25.7 [32.1]	37.8 [47.2]	57.2 [71.5]	98.4 [123]
400	400	400	400
3	3	3	3
0.8	0.8	0.8	0.8
1304 [51.3]	1331 [52.4]	1510 [59.4]	1892 [74.5]
636 [25]	670 [26.4]	822 [32.4]	702 [27.6]
814 [32]	835 [32.9]	1050 [41.3]	1106 [43.5]
550 [1213]	561 [1237]	852 [1879]	1273 [2806]

# QMS series

## 60 Hz Generator Sets

		Model	QMS 9M60	QMS 12M60	QMS 20M60
Configuration			3 cylinders in line	4 cylinders in line	4 cylinders in line
Engine base			Kubota	Kubota	Kubota
Fuel system			Mechanical	Mechanical	Mechanical
Injection system			Indirect	Indirect	Indirect
Intake			Naturally aspirated	Naturally aspirated	Naturally aspirated
Displacement	L [cu in]		1.1 [68.5]	1.5 [91.4]	2.2 [134]
Rated speed	rpm		1800	1800	1800
Sound Shield option			✓	✓	✓

### Generator ratings

Frequency	Hz		60	60	60
Cont power	kW [kVA]		8 [8]	10.7 [10.7]	16.4 [16.4]
Prime power	kW [kVA]		9.1 [9.1]	12 [12]	19.6 [19.6]
Voltage	V		120-240	120-240	120-240
Phase			1	1	1
Power factor			1	1	1

### Dimensions without sound enclosure

Length	mm [in]		840 [33.1]	925 [36.4]	1014 [39.9]
Width	mm [in]		489 [19.2]	489 [19.2]	548 [21.6]
Height	mm [in]		620 [24.4]	620 [24.4]	691 [27.2]
Dry weight	kg [lbs]		224 [494]	244 [538]	328 [723]

### Dimensions with sound enclosure

Length	mm [in]		950 [37.4]	1050 [41.3]	1130 [44.5]
Width	mm [in]		540 [21.3]	540 [21.3]	600 [23.6]
Height	mm [in]		710 [28]	710 [28]	700 [27.6]
Dry weight	kg [lbs]		271 [598]	291 [641]	378 [833]



QMS 30M60	QMS 12T60	QMS 16T60	QMS 25T60	QMS 38T60
4 cylinders in line	3 cylinders in line	4 cylinders in line	4 cylinders in line	4 cylinders in line
Kubota	Kubota	Kubota	Kubota	Kubota
Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Indirect	Indirect	Indirect	Indirect	Indirect
Naturally aspirated	Naturally aspirated	Naturally aspirated	Naturally aspirated	Naturally aspirated
3.3 [202.5]	1.1 [68.5]	1.5 [91.4]	2.2 [134]	3.3 [202.5]
1800	1800	1800	1800	1800
✓	✓	✓	✓	✓-
60	60	60	60	60
27.5 [27.5]	8.3 [10.4]	11.0 [13.8]	16.8 [21.0]	37.8 [30.2]
30.2 [30.2]	9.4 [11.8]	12.4 [15.5]	20.2 [25.3]	34.4 [27.5]
120-240	120-240	120-240	120-240	120-240
1	3	3	3	3
1	0.8	0.8	0.8	0.8
1304 [51.3]	840 [33.1]	925 [36.4]	1014 [39.9]	1304 [51.3]
636 [25]	489 [19.2]	489 [19.2]	548 [21.6]	636 [25]
766 [30.1]	620 [24.4]	620 [24.4]	691 [27.2]	766 [30.1]
378 [833]	224 [494]	244 [538]	328 [723]	378 [833]
1590 [62.6]	950 [37.4]	1050 [41.3]	1130 [44.5]	1590 [62.6]
750 [29.5]	540 [21.3]	540 [21.3]	600 [23.6]	750 [29.5]
900 [35.4]	710 [28]	710 [28]	700 [27.6]	900 [35.4]
550 [1213]	271 [598]	291 [641]	378 [833]	550 [1213]

# QLS series

## 60 Hz Generator Sets

Model		QLS 12T60	QLS 16T60
Configuration		3 cylinders in line	4 cylinders in line
Engine base		Kubota	Kubota
Fuel system		Mechanical	Mechanical
Injection system		Indirect	Indirect
Intake		Naturally aspirated	Naturally aspirated
Displacement	L [cu in]	1.1 [68.5]	1.5 [91.4]
Rated speed	rpm	1800	1800
Sound Shield option		✓	✓

### Generator ratings

Frequency	Hz	60	60
Cont power	kW [kVA]	8.7 [10.9]	11.7 [14.6]
Prime power	kW [kVA]	9.9 [12.4]	13.1 [16.4]
Voltage	V	120-240	120-240
Phase		1	3
Power factor		1	0.8

### Dimensions

Length	mm [in]	959 [37.8]	1081 [42.5]
Width	mm [in]	489 [19.3]	486 [19.1]
Height	mm [in]	624 [24.6]	620 [24.4]
Dry weight	kg [lbs]	251 [553]	264 [582]

QLS 27T60	QLS 38T60	QLS 115T60
4 cylinders in line	4 cylinders in line	6 cylinders in line
Kubota	Kubota	John Deere
Mechanical	Mechanical	Mechanical
Indirect	Indirect	Direct
Naturally aspirated	Naturally aspirated	Turbo
2.2 [134]	3.3 [202.5]	6.8 [414]
1800	1800	1800
✓	✓	

60	60	60
17.9 [22.4]	29.8 [37.3]	92.1 [115.1]
21.4 [26.8]	28.3 [34.0]	107 [133.8]
120-240	120-240	480
3	3	3
0.8	0.8	0.8
1167 [46.6]	1304 [51.3]	2202.4 [86.7]
548 [21.6]	636 [25.0]	745.5 [29.35]
692 [27.2]	814 [32.0]	1205.9 [40.4]
360 [794]	550 [1212]	1273 [2806.5]

# Nanni Hybrid system

For many years, Nanni's development focus has been the environmental performance of its propulsion systems. We aim to make engines progressively cleaner and more efficient.

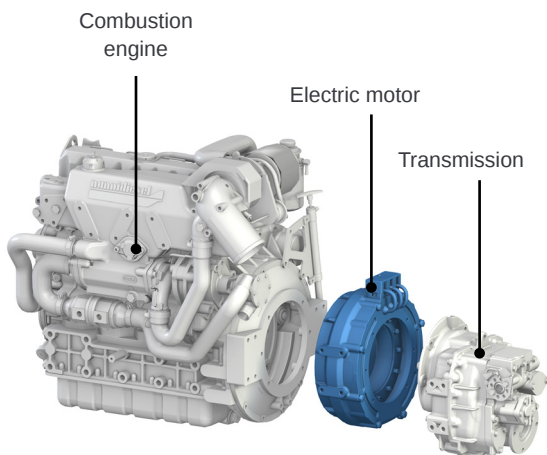
The hybrid system is the proof of Nanni's commitment to reducing exhaust emissions. It offers a clean, smooth and amazingly quiet boating experience, where mechanical and electric power work in unison.

## Eco-sensitive & User-friendly technology

The hybrid system seamlessly integrates an electric motor and a diesel engine.

The electric motor is a compact yet formidable power source. In propulsion mode, it is used at low speeds, propelling the boat with no emissions, noise and vibrations. In generator mode, it produces electrical energy to recharge the batteries by converting the mechanical power supplied by the combustion engine.

The hybrid technology results in a highly reliable propulsion system, where the propeller can be driven either by the electric motor or by the combustion engine, which remains the main source for propulsion at high speed.





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