



WhisperPower diesel generator

SQ 20
20 kW
1.500 rpm



Superior power systems for recreational and commercial craft



WhisperPower is the leading European manufacturer of "smart" power systems.

The comprehensive range of diesel generator systems, utilizing inverter technology and advanced power management, has been used for over 15 years by many yacht builders, commercial shipbuilders, vehicle manufacturers and various other markets throughout the world.

Main characteristics of WhisperPower systems:

Compact, electronically controlled, ease of operation. The systems are supplied with metallic or polyester sound shield, ready to install, with all connections pre-fabricated. WhisperPower exhaust kits, fuel kits, water inlets kits and various other key installation components are supplied as optional kits and are available from stock. The extended range of generator sets includes models from 3.5 kW for basic comfort to 30 kW "full comfort" power rating.

WhisperPower produces three main product series:

The Super Compact 3000 rpm range of diesel generators up to 10 kW, the Super Quiet line of 1500 rpm sets from 5.7 kW up to 30 kW and the new GENVERTER range of variable speed inverter integrated products. The GV 4 Basic (3.8 kW) and 7i (7 kW) are now available for 230 V 50 Hz output.

Technology used for the 3000 & 1500 RPM models: synchronous alternator technology, all single phase back ends are water cooled, hardly any



air is needed for cooling, so the sets can be stowed away in the smallest of places. Almost all models are fitted with an electronic governor which results in an extremely stable output voltage and frequency. All WhisperPower models are supplied with Digital Diesel Controls (DDC) power system

management, offering easy to understand information on operational status. Interfaces are available for bus connectivity including NMEA 2000.

Six 1500 rpm models, three 3000 models and a new generation of variable speed GENVERTER models coming up.

WhisperPower integrates marinized Mitsubshi and Kubota engines to operate in the marine environment. For the one cylinder M-SC 3.5 a marinized industrial Kubota engine is used while the GENVERTER one cylinder models operate with WhisperPower designed engines. All standard WhisperPower products can be delivered immediately from inventory and our flexible manufacturing techniques allow for a timely fulfillment of customized units demands.

We make the product the way you want it:

- WhisperPower sets with dry exhaust. (for vessels operating in shallow waters or inland waterways)
- WhisperPower sets with PTO (Power Take Off) for installation of a hydraulic pump, mounted to the generator end to provide up to 25KW of hydraulic power to operate hydraulic equipment.
- WhisperPower sets can be manufactured with isolated ground for use on aluminum vessels.

Complete installation kits

- We offer complete installation kits of the highest quality: non-flammable water exhaust separators and waterlocks (Delta exhaust parts/ ABYC compliant), rubber hoses, fuel kit with fuel/water separators, anti-siphon kits, starter battery kit, etc.
- We are able to supply our systems with specific certifications like Lloyds, GL or ABS.
- All our models are available for 60 Hz use as well.

Technical Data

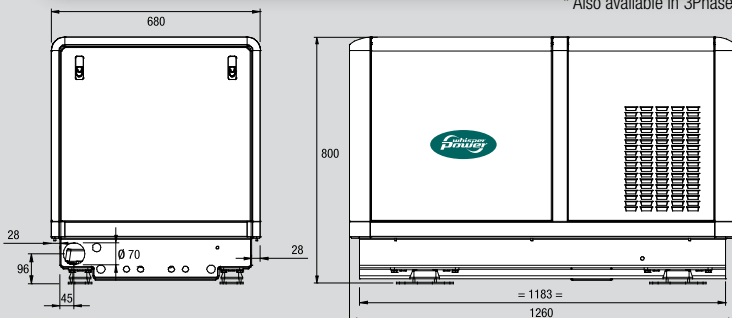


smart energy solutions

SQ 20
20 kW
1.500 rpm

diesel generator	Art. No. 41101205	41101220
Specifications	M-SQ 20 Marine*	W-SQ 20 Mobile/Land*
Nominal power	20 kW at 1.500 rpm	20 kW at 1.500 rpm
Nominal voltage	230V / 87A	230V / 87A
Output frequency	50 Hz	50 Hz
Power factor / cos phi	1	1
Voltage tolerance	± 2%	± 2%
Frequency tolerance (Hz)	± 3%	± 3%
Voltage regulation	AVR	AVR
Starter battery	12 V	12 V
Battery charge current	alternator 50A	alternator 50A
Alternator	air-cooled, no brushes, synchronous	
Sound level	58 dBa	58 dBa
Dimensions (l x w x h) incl. sound sheeld	1260 x 680 x 800 mm	1260 x 680 x 800 mm
Dry weight	580 Kg	580 Kg
Location oil refill cap	top	top
Max. operation angle (all directions)	25°	25°
Dry / Wet exhaust pipe Ø 63 mm	Ø 2.5 inch water cooled inner thread	Ø 2 inch BSP inner thread
Material / Color	sheet metal / RAL 9003	
Temperature range operational	-20° to 40°	
Protection degree	Engine compartment IP44, Electronic compartment IP23	
Relative humidity	Max. 95% relative humidity, none condensing	
Remote control	Digital Diesel Control	Digital Diesel Control
Specifications diesel engine		
Engine model (Mitsubishi)	S4S	S4S
Number of cylinders	4	4
Bore & stroke	4 x 94 x 120 mm	4 x 94 x 120 mm
Cylinder capacity	3.331 CC	3.331 CC
Air consumption 2.8 m³/min	2.8 m³/min 98.88ft³/min.	2.8 m³/min 98.88ft³/min.
Engine cooling	Inter cooling	Inter cooling
Fuel consumption (no load-full load)	1-8 l/hour	1-8 l/hour

* Also available in 3Phase



Water inlet kit

consisting of: Water strainer, hoses, hose clamps, through-hull fitting and seacock



DELTA Water/gas separator kit

consisting of: Water/gas separator with unique rotating connections, through-hull fitting, hoses, hose clamps and seacock



DELTA Exhaust kit

consisting of: Exhaust silencer/waterlock muffler with unique rotating connections, through-hull fitting, hoses and hose clamps

Dry exhaust kit

There are specific situations where the implementation of a Dry Exhaust kit is a good alternative contains two silencers: an absorption and a resonance muffler including fitting material

Options

Options	Art. No.
Water inlet Kit	40230221
Anti syphon Kit	40230274
DELTA exhaust Kit	40230254
DELTA water exhaust separator Kit	40230264
Fuel supply Kit	40230205

Options

Options	Art. No.
Radiator cooler Kit	40201897
Dry exhaust Kit	40201889

Spare Part Kits

Spare Part Kits	Art. No.
Maintenance Kit A	40201560
Maintenance Kit B	40201561

Digital Diesel Control:

Each WhisperPower generator comes standard with the Digital Diesel Control power system management. This remote panel has a one touch start/stop facility and provides complete diagnostics and performance data.

AC voltage and engine components, such as oil pressure, exhaust temperature, cooling water temperature and starter battery voltage. Maintenance schedules are alerted per settings. Visual and audible warnings alert you the instance something is wrong and the safety shut-downs will protect the generator.

Digital Diesel Control continuously monitors vital functions, including frequency,

Load information at a glance

One-touch start and stop buttons

Select your access to various menus



Green LEDs displays the status for nominal capacity (five-step scale to 100%). Overload is signaled by a red light and the generator will shutdown.

