MARINER 93T

93 kVA

50 Hz



Control Panel

The gen-set control panel was designed to include, in one single panel, the switches, control devices and the protection devices
The components are the following :

- Engine cut-off module for automatic stop of engine in case of high water temperature, low oil pressure, high alternator temperature.
- Hour-meter.
- Start-stop button.
- Breaker for protection against of overload or short circuit.
- Thermal switch for D.C. electric circuit.

Engine

- Easy access in case of maintenance to the feeding system and lubrication, of the sea/water pump and the air filter.
- Safety stop in case of low oil pressure.
- Safety stop in case high water/exhaust gas temperature.
- Oil and fuel filters of easy access.

Alternator

- Synchronous, 4 poles, brush less self-excited, electronic voltage regulator (AVR).
- Rotor and stator coated with epoxy resin against external agents.
- Rotor dynamically balanced.
- Insulation class H.

Soundproof cabin

A new project engineering design with a structure of a draw piece of aluminum supporting, painted aluminum panels type 5754 of high resistance to external agents.
Good accessibility inside canopy, makes maintenance services more easy.

Engine	50 Hz
Model	Perkins 4.4 TWGM
Type	Diesel 4 stroke
Cylinders (nr.)	4
Cylinder block material	Cast iron
Bore (mm)	105
Stroke (mm)	127
Displacement (cc)	4400
Power (hp)	110,6
RPM	1500
Compression ratio	19:3
Combustion system	Direct
Engine head material	Cast iron
Speed governor	Centrifugal mechanical
Lubrication system	Forced
Oil sump capacity	15
Engine stop system	Stop solenoid
Fuel pump	Electric
Fuel pump discharge (cm)	70
Full load consumption (l/h)	19
Starting battery (Ah-V)	80 - 12
Battery charger (Ah-V)	40 - 12
Starter (kW-V)	2,3 - 12
Max. inclination	30°
Water pump flow (l/min)	40

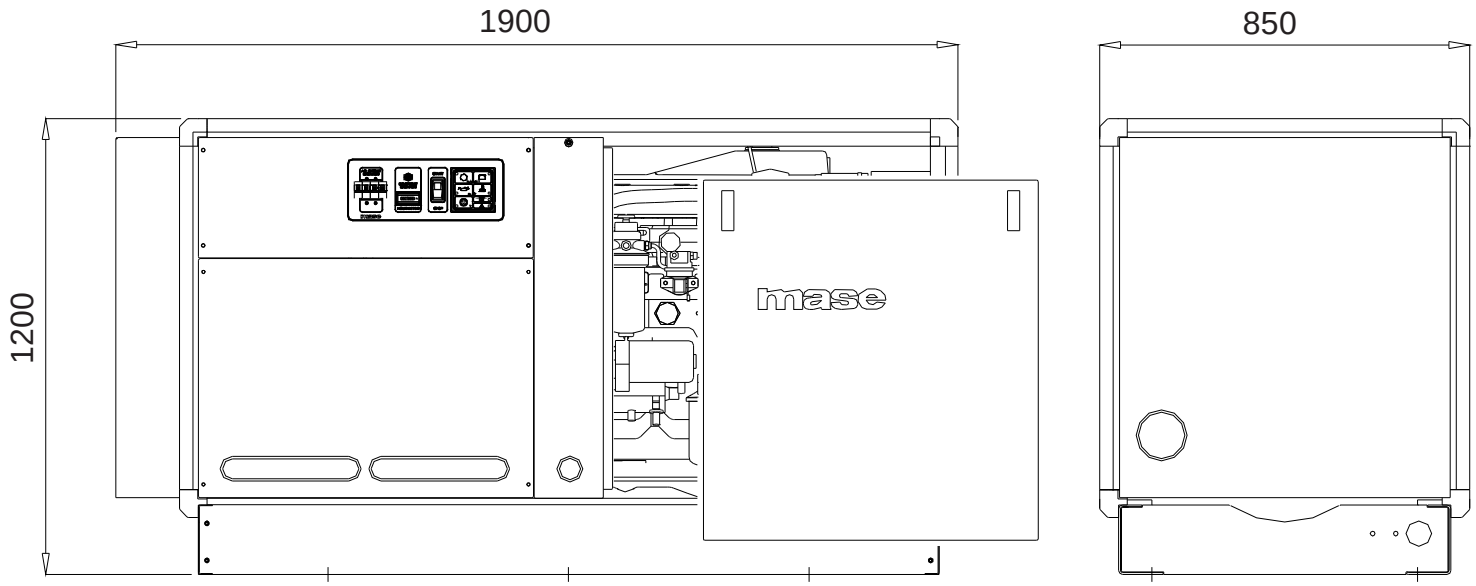
Alternator	50 Hz
Type	Synchronous, 4-poles, self-excited
Cooling	Air
Voltage (V)	400
Frequency (Hz)	50
Max. power (kVA)	93
Continuous power (kVA)	84,5
Power factor (cos ø)	0,8
Insulating class	H
Voltage stability	±2%
Frequency stability	±5%

Cooling system

The cooling of the engine is based on a closed inner flow of coolant. The system is based on a cupronickel heat exchanger seawater/coolant type, where the thermal exchange occurs between coolant and seawater. Two separate pumps contribute to the flow of the coolant and the sea water.

MARINER 93T 50 Hz

Dimensions (Leng. x Width x Height)	1900 x 850 x 1200 mm (with canopy)
Weight	1000 Kg (with canopy)
Noise power level	60 dB_A at 7mt



FITTINGS

EXHAUST COMPONENTS KIT
SIPHON BREAK
WATER-GAS SEPARATOR KIT
STARTING REMOTE CONTROL PANEL WITH INSTRUMENTS

*This drawing is only a reference and is not indicated for the installation. For more information, you may contact your local dealer or **mase** generators S.p.A..*

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Rev.0 F.M. del 29-04-2013