

serie TNV



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.

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.
- Double vibration dumping system.
- Oil and fuel filters of easy access.
- Oil drain pump.

Alternator

- Synchronous, 4 poles, brush less self-excited, electronic voltage regulator (AVR)
- Rotor and stator epoxy resin coated 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.

Of limited weight and easy accessibility to the inner cabin in case of maintenance services.

THE INTERCOOLER W/A

Assures the perfect functioning of the generator independently of the external ambient temperature, therefore the alternator and the engine will work at ideal temperature optimizing the performance and reliability of the gen-set.

Engine	50 Hz
Model	Yanmar 4TNV98
Type	Diesel 4 stroke
Cylinders (nr.)	4
Cylinder block material	Cast iron
Bore (mm. - in.)	98 - 3.8
Stroke (mm.- in.)	110 - 3.9
Displacement (cc. - CID)	3319 - 202.5
Power (hp)	47
RPM	1500
Compression ratio	18:1
Combustion system	Direct injection
Engine head material	Cast iron
Speed governor	Centrifugal mechanical
Lubrication system	Forced
Oil sump capacity with filter(l -gl)	10.5 - 2.3
Engine stop system	Stop solenoid
Fuel pump	Electric
Fuel pump discharge (cm. - ft)	70-2.3
Fuel consumption (l/h - gl/h)	8,9-1.95
Air intake (l/min. - gl/min.)	2500 - 550
Starting battery (Ah-V)	80 - 12
Battery charger (A-V)	40 - 12
Starter (kW-V)	2.3 - 12
Max. inclination	30°
Water pump flow (l/min. - gl/min.)	40

Alternator	50 Hz
Type	Synchronous, 4-poles, brush less self-excited
Regulation	Electronic
Cooling	Air/water (Intercooler W/A)
Voltage (V)	400
Frequency (Hz)	50
Max. power (kW - kVA)	22,4 - 28
Continuous power (kW - kVA)	20 - 25
Power factor (cos ø)	1 - 0,8
Insulating class	H
Voltage stability	±2%
Frequency stability	±5%

Cooling system

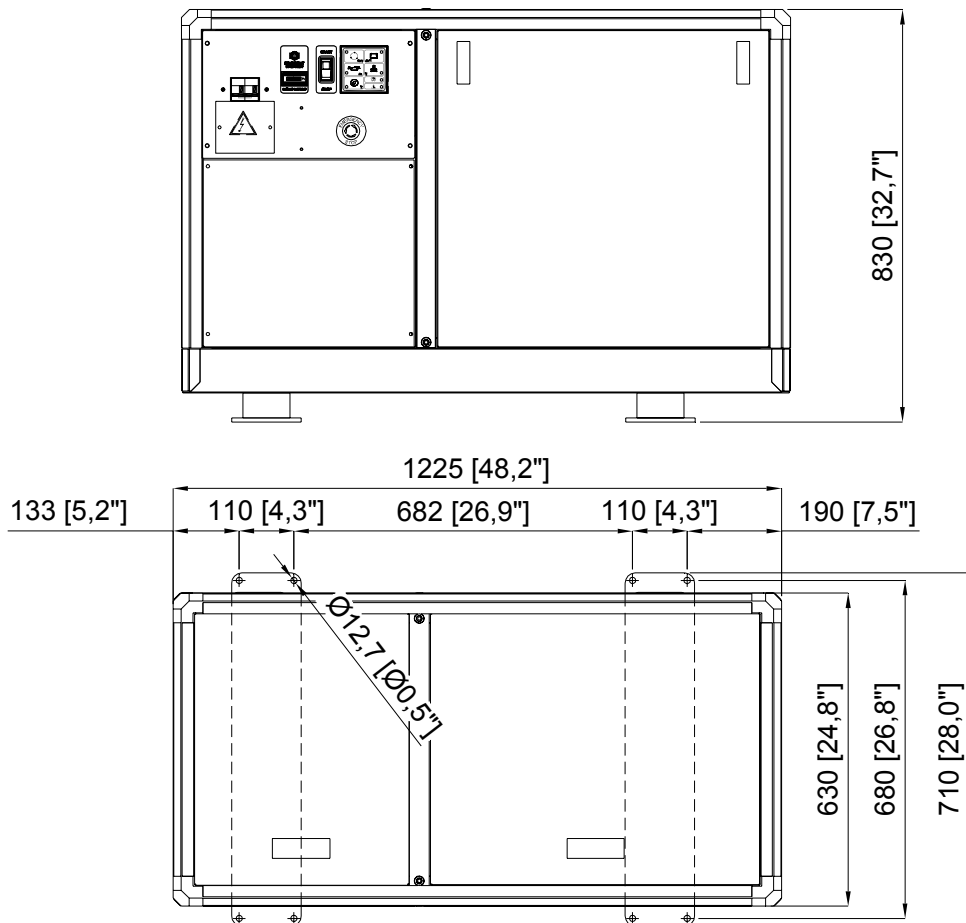
The cooling of the engine is based on a closed inner flow of coolant.

The system is based on a heat exchanger seawater/coolant type, of cupronickel, where the thermal exchange occurs between the two liquids.

Two separate pumps contribute to the flow of the coolant and the sea water. The cooling of the air inside the gen-set is obtained through a seawater/air heat exchanger. This provides the efficacious cooling of the alternator and the optimal temperature for the best performance and reliability of the gen-set despite its on board allocation and room temperature.

50 Hz

Dimension (Length x Width x Height.)	1225x630x830mm - 48.2x24.8x32.7 (in.) (with soundproof box)
Weight	625 Kg. - 1388 (lb) (with soundproof box)
Noise Level	54 dB _A at 7mt (23 ft)



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

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FITTINGS

EXHAUST COMPONENTS KIT

SIPHON BREAK

W.G. SEPARATOR KIT

REMOTE CONTROL PANEL COMPLETED OF INSTRUMENTS

Dealer: