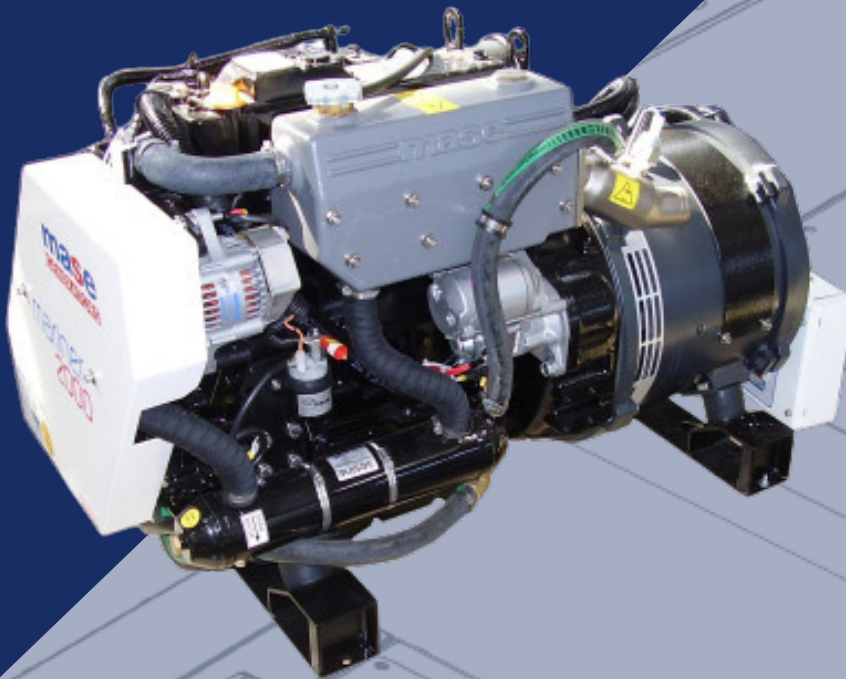
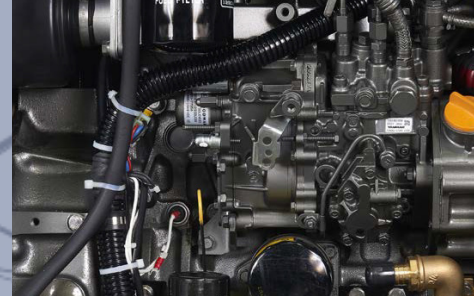


mariner 2000 T - 2300 T



CONTROL PANEL



YANMAR ENGINE



INPUT/OUTPUT FUEL PIPE

the engine is cooled by a coolant loop in a closed circuit. The system consists of a heat exchanger, inside which the heat exchange between coolant and sea water takes place. Two separate pumps provide for the circulation of coolant and seawater. Air flows ensure effective cooling of the alternator. The excellent accessibility makes maintenance operations easier, even with the generator installed in confined environments.



COMPACT
DESIGN



EASY
INSTALLATION

We reserve the right to modify the data, images and drawings in this document without prior notice.

For more detailed information, please contact your local distributor or Mase Generators S.p.A.



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mase
GENERATORS
Believing in change.



CONTROL PANEL

_ CBU EVO IL4 device controls and drives the genset. The large display and control pushbuttons allow easy use and monitoring:

- Manual start
- Voltage Vac
- Frequency Hz
- Hour meter
- Genset battery voltage
- Oil low pressure alarm
- Engine preheating
- Engine high temperature alarm
- Alternator battery charger failure alarm
- Protection alarm for frequency and rpm
- Alarm history
- Maintenance warnings
- General alarm outlet
- RUN outlet
- Ready outlet
- Programmable AUX outlet

_ Emergency stop button

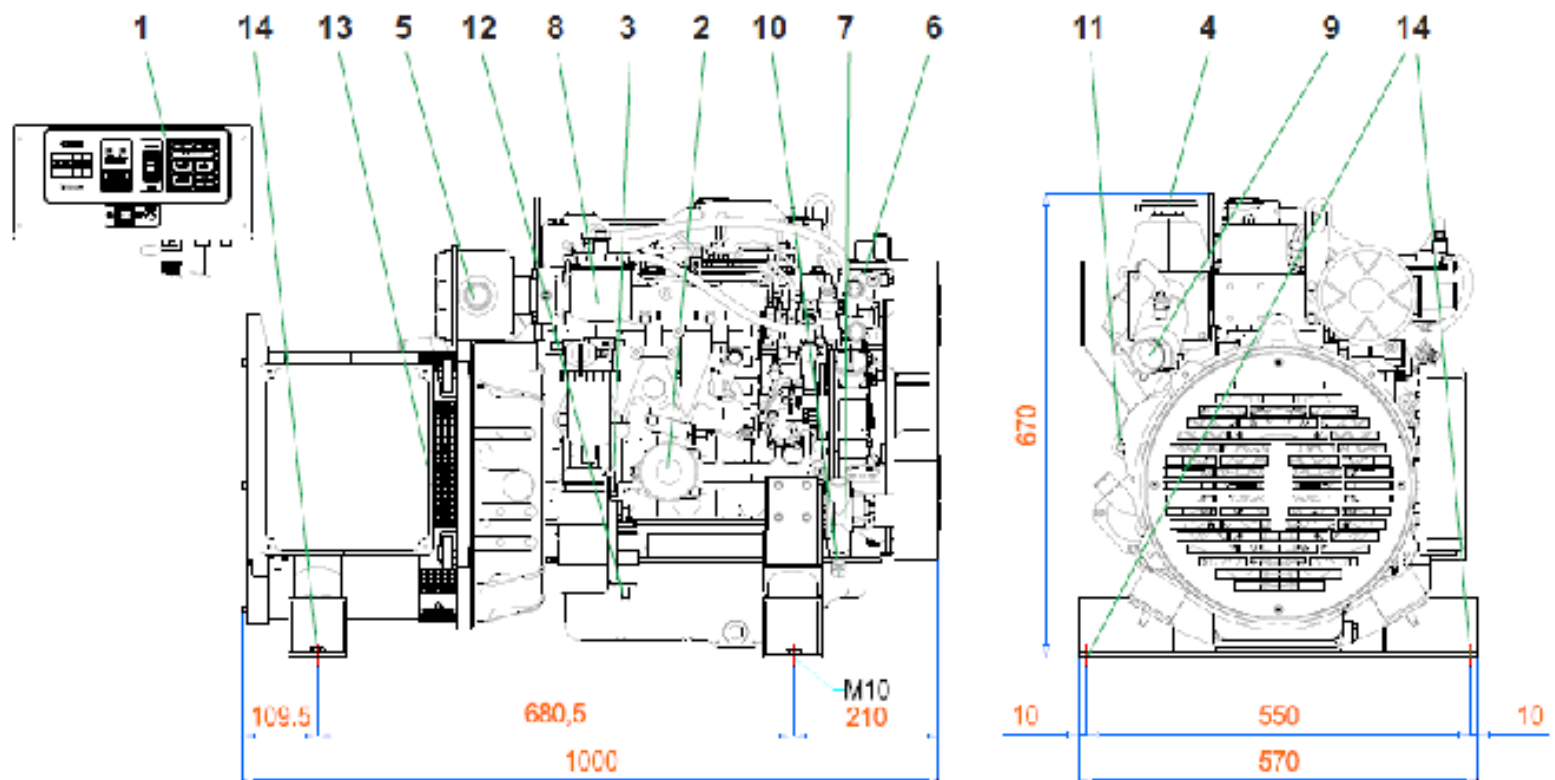
_ Magneto-thermal protection

ENGINE

_ Easy maintenance access to the feeding and lubrication systems, the sea water pump and the air filter

_ Double vibration dumping system

_ Oil drain pump



- | | | | |
|--------------------------------|---|----------------------------------|---------------------|
| 1. Control panel | 6. Closed circuit water pump | 10. Seawater inlet (ø 16mm) | 14. Fixing stirrups |
| 2. Engine oil filter cartridge | 7. Seawater pump | 11. Battery connection | |
| 3. Oil dipstick | 8. Fuel filter | 12. Fuel tank connection (ø 8mm) | |
| 4. Engine oil cap | 9. Seawater exhaust connection (ø 50mm) | 13. Electric cables outlet | |
| 5. Air filter | | | |

CE Three-phase output power 19.2 kVA 50 Hz - 23 kVA 60 Hz

| | 50 Hz | 60 Hz |
|-----------------------|--------------------------------|----------|
| AC alternator - | Synchronous, 4 poles, with AVR | |
| Cooling - | Air | |
| Voltage - | 400 V | 480 V |
| Frequency - | 50 Hz | 60 Hz |
| Amps - | 27.7 | |
| Max power - | 19.2 kVA | 23 kVA |
| Continuous power - | 17.1 kVA | 20.8 kVA |
| Power Factor - | cos ϕ 0.8 | |
| Insulating class - | H | |
| Voltage stability - | $\pm 2\%$ | |
| Frequency stability - | $\pm 5\%$ | |

The power is referred to an atmospheric pressure of 100 kPa, a humidity percentage of 30% and an ambient temperature of 25°C.

| | | |
|--|---|-----------------------------------|
| Model - | Yanmar 4TNV88 | |
| Type - | Diesel | |
| Cylinders - | nr 4 | |
| Cylinder block material - | Cast iron | |
| Bore - | 88 mm - 3.47 in | |
| Stroke - | 90 mm - 3.55 in | |
| Displacement - | 2190 cc - 133.64 CID | |
| Power - | 24.5 hp - 18.02 kWm (at 1500 RPM) | 29.4 hp - 21.63 kWm (at 1800 RPM) |
| RPM - | 1500 | 1800 |
| Compression ratio - | 19.1:1 | |
| Combustion system - | Direct injection | |
| Engine head material - | Cast iron | |
| Speed governor - | Mechanical | |
| Lubrication system - | Forced | |
| Oil sump capacity with filter - | 6.70 l - 1.89 gl | |
| Engine stop system - | Electromagnet | |
| Fuel pump - | Electric | |
| Max. fuel pump head - | 700 mm - 27.5 in | |
| Fuel consumption - | 5.6 l/h - 1.48 gl/h | 6.2 l/h - 1.64 gl/h |
| Air intake - | 1500 l/min - 53 cfm | 1800 l/min - 64 cfm |
| Starting battery - | 80 Ah - 12 V | |
| Battery charger - | 40 Ah - 12 V | |
| Starter motor - | 1.2 kW - 12 V | |
| Max. inclination - | 25° | |
| Water pump flow - | 25 l/min - 6.6 gl/min | 28 l/min - 7.4 gl/min |
| Sea water inlet pipe \varnothing - | 20 mm - 3/4" | |
| Exhaust pipe \varnothing - | 50 mm - 2" | |
| Input/Output fuel pipe \varnothing - | 8 mm - 5/16" | |
| Dimensions (L x W x H) - | 1000 x 570 x 670 mm - 39.4 x 22.4 x 26.4 in | |
| Weight - | 350 Kg - 772 lb | |

Accessory

Code

ACCESSORIES ON REQUEST

| | |
|--|--------|
| • Filtering kit: seawater intake, water filter, valves, D.20 fittings - ref. | 016422 |
| • Exhaust kit: muffler, silencer, exhaust outlet D.50 MASE | 04658 |
| • Exhaust kit with supersilenced separator D.50 MASE | 010078 |
| • Siphon break D.20 - ref.3 | 03796 |
| • Vetus LP50 Muffler | 71148 |
| • Vetus MP50 Silencer | 71751 |
| • Silencer c.71751 with soundproofing sponge | 039866 |
| • Vetus LGS5038 Separator | 71717 |
| • Centek 2" Muffler - ref.5 | 71155 |
| • 2" Centek water/gas separator - ref.6 | 71156 |
| • Start/Stop control panel with 20m cable for Comap IL4 - ref.1 | 037561 |
| • Start control panel LOGICA Comap IL4 with 20m cable - ref.2 | 039607 |
| • Cruise Kit | 913903 |



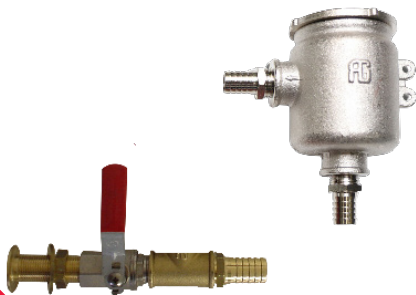
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