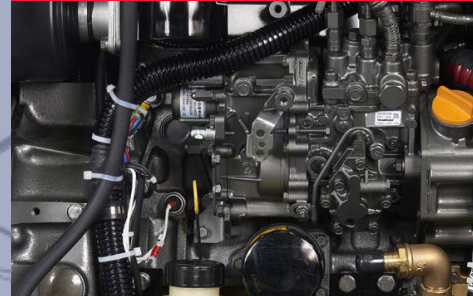


# mariner 700 - 810



CONTROL PANEL



YANMAR 1500 RPM ENGINE



WATER/GAS OUTLET

**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 an easy use and monitoring:

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

\_ Emergency stop button

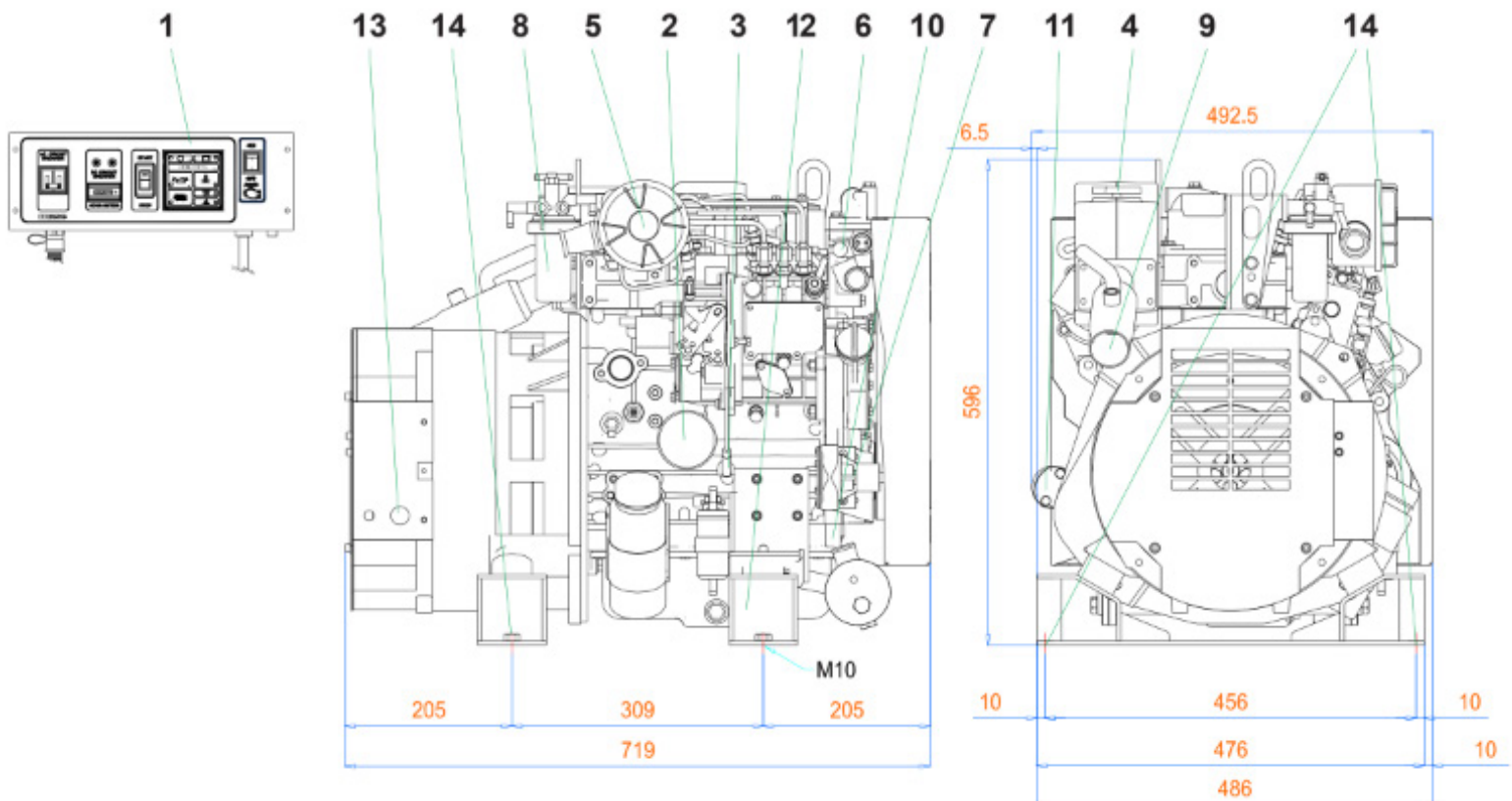
\_ Magneto-thermal protection

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

CE Output power 7.4 kW 50 Hz - 8.8 kW 60 Hz

|                       | 50 Hz  | 60 Hz         |
|-----------------------|--|---------------|
| AC alternator -       | Synchronous, 4 poles, brushless, with capacitors |               |
| Cooling -             | Air  |               |
| Voltage -             | 115 - 230 V                                      | 120 - 240 V   |
| Frequency -           | 50 Hz  | 60 Hz         |
| Amps -                | 64.3 - 32.2 A                                    | 73.3 - 36.7 A |
| Max power -           | 7.4 kW   | 8.8 kW        |
| Continuous power -    | 6.6 kW   | 8 kW          |
| Power Factor -        | cos $\phi$ 1                                     |               |
| Insulating class -    | H  |               |
| Voltage stability -   | $\pm 10\%$                                       |               |
| 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 3TNV80F                          |                                    |
| Type -                                 | Diesel 4 stroke                         |                                    |
| Cylinders -                            | nr 3                                    |                                    |
| Cylinder block material -              | Cast iron                               |                                    |
| Bore -                                 | 80 mm - 3.15 in                         |                                    |
| Stroke -                               | 84 mm - 3.31 in                         |                                    |
| Displacement -                         | 1267 cc - 77.32 CID                     |                                    |
| Power -                                | 12.74 hp - 9.37 kWm (at 1500 RPM)       | 14.35 hp - 10.56 kWm (at 1800 RPM) |
| RPM -                                  | 1500                                    | 1800                               |
| Compression ratio -                    | 23:1                                    |                                    |
| Combustion system -                    | Direct injection                        |                                    |
| Engine head material -                 | Cast iron                               |                                    |
| Speed governor -                       | Mechanical                              |                                    |
| Lubrication system -                   | Forced                                  |                                    |
| Oil sump capacity with filter -        | 3 l - 0.85 gl                           |                                    |
| Engine stop system -                   | Electromagnet                           |                                    |
| Fuel pump -                            | Electric                                |                                    |
| Max. fuel pump head -                  | 700 mm - 2.3 ft                         |                                    |
| Fuel consumption -                     | 2.3 l/h - 0.61 gl/h                     | 2.9 l/h - 0.77 gl/h                |
| Air intake -                           | 790 l/min - 28 cfm                      | 904 l/min - 32 cfm                 |
| Starting battery -                     | 65 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 $\varnothing$ -   | 16 mm - 5/8"                            |                                    |
| Exhaust pipe $\varnothing$ -           | 50 mm - 2"                              |                                    |
| Input/Output fuel pipe $\varnothing$ - | 8 mm - 5/16"                            |                                    |
| Dimensions (L x W x H) -               | 719 x 492 x 596 mm - 28.3 x 19.4 x 23.5 |                                    |
| Weight -                               | 190 Kg - 419 lb                         |                                    |

## Accessory

## Code

### ACCESSORIES ON REQUEST

|  |        |
|--|--------|
| • Complete installation kit D.50: filtration, drain, and antisiphon D.16 | 012276 |
| • Filtering kit: sea inlet, water filter, valves, fittings D.16 - ref.4  | 04349  |
| • Exhaust kit: muffler, silencer, exhaust nozzle D.50 MASE               | 04658  |
| • Exhaust kit and super-silenced separator D.50 MASE                     | 010078 |
| • Siphon break kit D.16 - ref.3  | 04290  |
| • Muffler D.50 MASE  | 70795  |
| • Silencer D.50 MASE   | 71809  |
| • Water/gas separator MASE D.50  | 04488  |
| • Muffler Vetus LP50   | 71148  |
| • Silencer Vetus MP50  | 71751  |
| • Silencer c.71751 with soundproofing sponge                             | 039866 |
| • Separator Vetus LGS5038  | 71717  |
| • Muffler Centek 2" - ref.5  | 71155  |
| • Water/gas separator 2" Centek - ref.6                                  | 71156  |
| • Remote START/STOP panel with 20m cable for Comap IL4 - ref.1           | 037561 |
| • Remote start panel Comap IL4 with 20m connection cable - ref.2         | 039607 |
| • Cruise Kit   | 913816 |



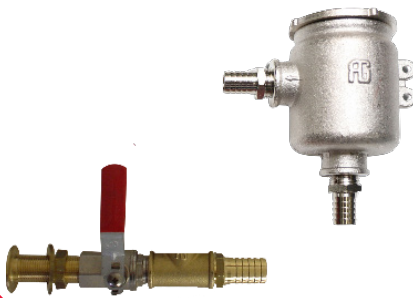
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