

# mariner 88 MT - 100 MT



CONTROL PANEL



PERKINS ENGINE



INPUT/OUTPUT FUEL PIPE



COMPACT  
DESIGN



EASY  
INSTALLATION

**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.

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



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**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

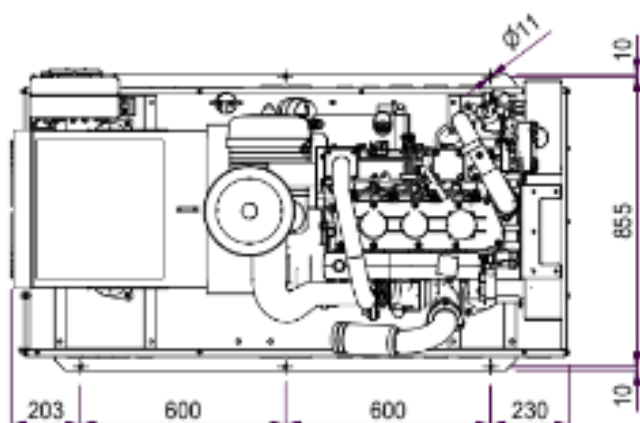
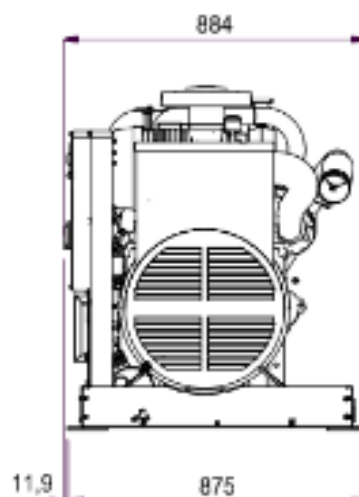
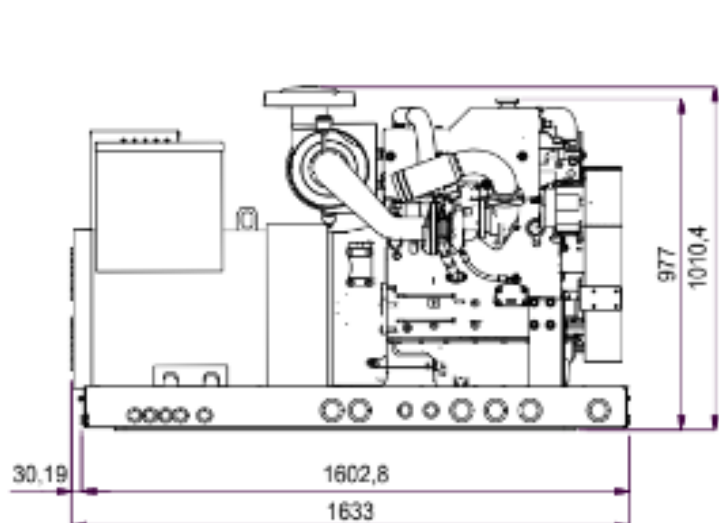
\_ Magneto-thermal protection

## 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



### 50 Hz

### 60 Hz

|                       |                                |         |
|-----------------------|--------------------------------|---------|
| AC alternator -       | Synchronous, 4 poles, with AVR |         |
| Cooling -             | Air                            |         |
| Voltage -             | 400 V                          |         |
| Frequency -           | 50 Hz                          | 60 Hz   |
| Amps -                | 127.2 A                        | 144.5 A |
| Max power -           | 88 kVA                         | 100 kVA |
| Continuous power -    | 80 kVA                         | 91 kVA  |
| Power Factor -        | cos $\phi$ 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 -                                | Perkins 1104A-44TG1     |                      |
| Type -                                 | Diesel                  |                      |
| Cylinders -                            | nr 4                    |                      |
| Cylinder block material -              | Cast iron               |                      |
| Bore -                                 | 105 mm - 4.14 in        |                      |
| Stroke -                               | 127 mm - 5 in           |                      |
| Displacement -                         | 4400 cc - 268.51 CID    |                      |
| Power -                                | 96.4 hp - 70.91 kWm     | 109.9 hp - 80.84 kWm |
| RPM -                                  | 1500                    | 1800                 |
| Compression ratio -                    | 18.3:1                  |                      |
| Combustion system -                    | Direct injection        |                      |
| Engine head material -                 | Cast iron               |                      |
| Speed governor -                       | Electronic              |                      |
| Lubrication system -                   | Forced                  |                      |
| Oil sump capacity with filter -        | 6.5 l - 1.83 gl         |                      |
| Engine stop system -                   | Solenoid valve          |                      |
| Fuel pump -                            | Electric                |                      |
| Max. fuel pump head -                  | 700 mm - 27.5 in        |                      |
| Fuel consumption -                     | 18.7 l/h - 4.94 gl/h    | 22.3 l/h - 5.89 gl/h |
| Air intake -                           |                         |                      |
| Starting battery -                     | 80 Ah - 12 V            |                      |
| Battery charger -                      | 40 Ah - 12 V            |                      |
| Starter motor -                        | 12 kW - 12 V            |                      |
| Max. inclination -                     | 25°                     |                      |
| Water pump flow -                      | 86 l/min - 22.71 gl/min |                      |
| Sea water inlet pipe $\varnothing$ -   | 25 mm - 1"              |                      |
| Exhaust pipe $\varnothing$ -           | 102 mm - 4"             |                      |
| Input/Output fuel pipe $\varnothing$ - | 8 mm - 5/16"            |                      |

Dimensions (L x W x H) -

1594 x 893 x 1005 mm - 62.8 x 35.2 x 39.6 in

Weight -

950 Kg - 2095 lb

## ACCESSORIES ON REQUEST

|                                                                                   |        |
|-----------------------------------------------------------------------------------|--------|
| • Filtering kit: sea water inlet, sea water strainer, taps, fittings D.16 - ref.4 | 04349  |
| • Mase exhaust kit: sea water lock, silencer, outlet D.50                         | 04658  |
| • Mase super silenced exhaust kit & exhaust gas separator D.50                    | 010078 |
| • Siphon break D.16 - ref.3                                                       | 04290  |
| • Mase Muffler D.50                                                               | 70795  |
| • Silencer Mase D.50                                                              | 71809  |
| • Mase water/gas exhaust separator D.50                                           | 04488  |
| • Vetus LP50 muffler                                                              | 71148  |
| • Vetus silencer MP50                                                             | 71751  |
| • Silencer Vetus c.71751 with soundproofing sponge                                | 039866 |
| • Vetus Separator LGS5038                                                         | 71717  |
| • Centek muffler 2"                                                               | 71155  |
| • Centek 2" water/gas exhaust separator                                           | 71156  |
| • Remote START/STOP panel with 20m cable for Comap IL4 - ref.1                    | 037561 |
| • Comap IL4 remote start panel with 20m cable - ref.2                             | 039607 |
| • Cruise Kit                                                                      | 913948 |



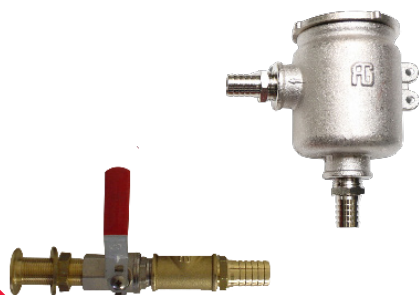
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