

# mariner 1600 PRO - 1900 PRO



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 and quiet, these generators feature super-silent canopies and a dual anti-vibration system, ensuring maximum noise and vibration reduction.

The perfect solution for professional applications.



COMPACT DESIGN



EASY INSTALLATION



SUPER SILENCED

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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**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

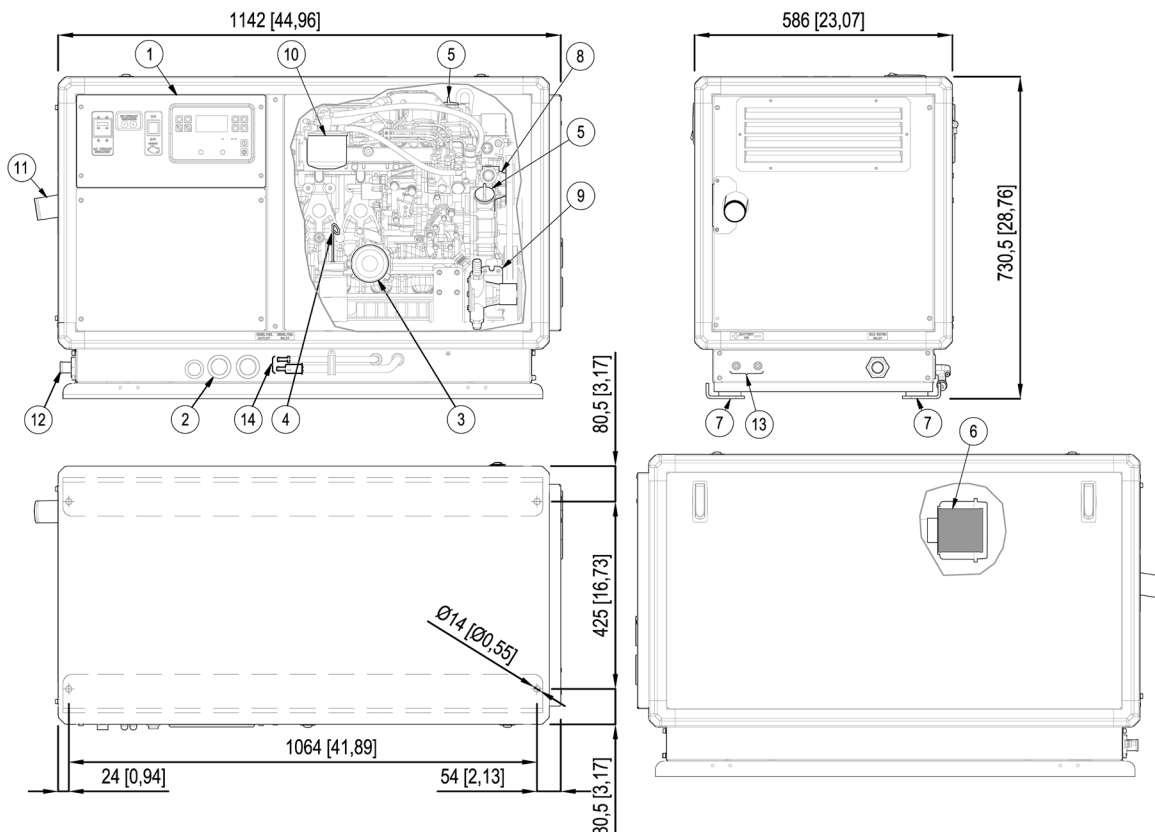
\_ Easy maintenance access to the feeding and lubrication systems, the sea water pump and the air filter

\_ Double vibration dumping system

## SOUNDPROOF CABIN

\_ Made of extremely light marine aluminum with very high resistance to external agents

Insulated poles kit (for metal hull boats), dry exhaust kit and keel cooling kit are available on request



- 1 – Control panel
- 2 – Cables outlet
- 3 – Oil filter cartridge
- 4 – Oil dipstick
- 5 – Engine oil filler

- 6 – Air filter
- 7 – Genset base brackets
- 8 – Fresh water pump
- 9 – Sea water pump
- 10 – Fuel filter

- 11 – Exhaust manifold ( $\varnothing 50$  mm)
- 12 – Sea water intake ( $\varnothing 20$  mm)
- 13 – Battery connections

- 14 – Fuel tank connections ( $\varnothing 8$  mm)

Output power 15.3 kW 50 Hz - 18.4 kW 60 Hz

	50 Hz	60 Hz
AC alternator -	Synchronous, 4 poles, with AVR	
Cooling -	Air	
Voltage -	115 or 230 V	120 or 240 V
Frequency -	50 Hz	60 Hz
Amps -	133 or 66.5 A	153.3 or 76.7 A
Max power -	15.3 kW	18.4 kW
Continuous power -	13.7 kW	16.7 kW
Power Factor -	cos $\phi$ 1	
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 4 stroke	
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 -	6.7 l - 1.89 gl	
Engine stop system -	Electromagnet	
Fuel pump -	Electric	
Max. fuel pump head -	700 mm - 2.29 ft	
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) -	1142 x 586 x 730 mm - 43.9 x 23 x 28.7 in (with soundproof box)	
Weight -	410 Kg - 904 lb (with soundproof box)	
Noise Level -	52 dBA at 7 mt (23 ft)	54 dBA at 7 mt (23 ft)

## Accessory

## Code

### ACCESSORIES ON REQUEST

• Filtering kit: sea water inlet, sea water strainer, taps, fittings D.20 - ref.4	016422
• Mase exhaust kit: sea water lock, silencer, outlet D.50 - ref.3	04658
• Mase super silenced exhaust kit & exhaust gas separator D.50 - ref.6	010078
• Siphon break D.20 - ref.3	03796
• Vetus LP50 muffler	71148
• Vetus silencer MP50	71751
• Silencer c.71751 with soundproofing sponge	039866
• Vetus Separator LGS5038	71717
• Centek muffler 2" - ref.5	71155
• Centek 2" water/gas exhaust separator - ref.6	71156
• Remote START/STOP panel with 20m cable for Comap IL4 - ref.1	037561
• Comap IL4 remote start panel with 20-meter cable - ref.2	039607
• Oil water senders kit IS Yanmar	011084
• Cruise KIT	913903



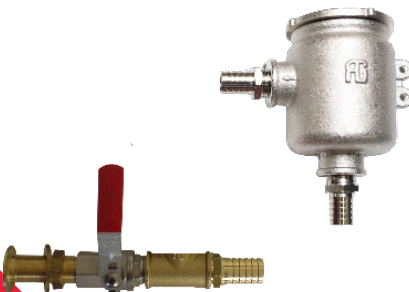
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