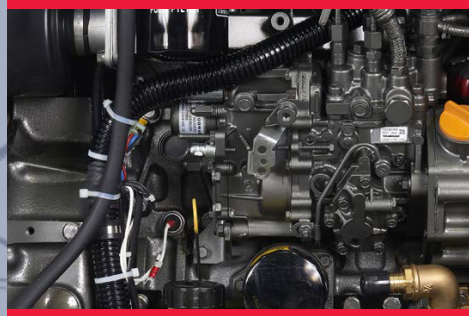
mariner 1450 TS - 1680 TS

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

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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mase GENERATORS
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mariner 1450 TS - 1680 TS

Three-phase output power 14.1 kVA 50 Hz - 16.8 kVA 60 Hz

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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

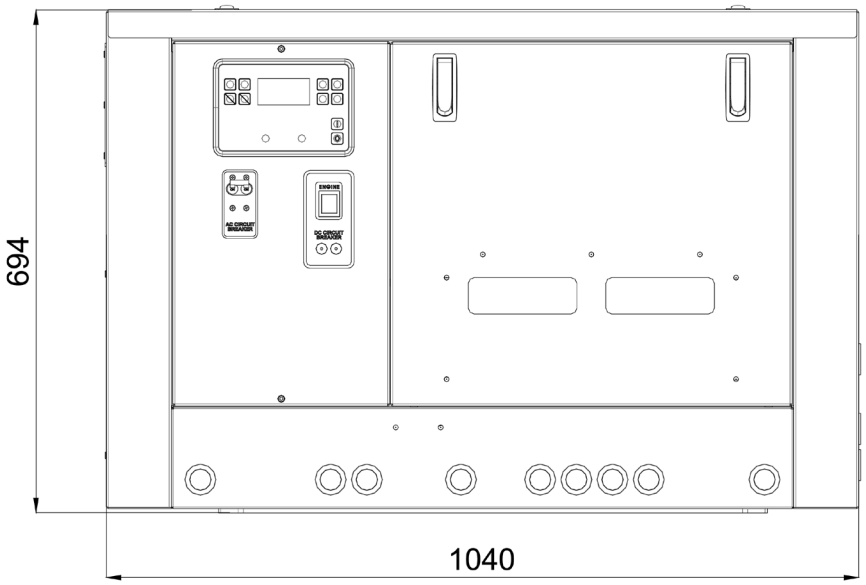
_ Easy maintenance access to the feeding and lubrification systems,
the sea water pump and the air filter

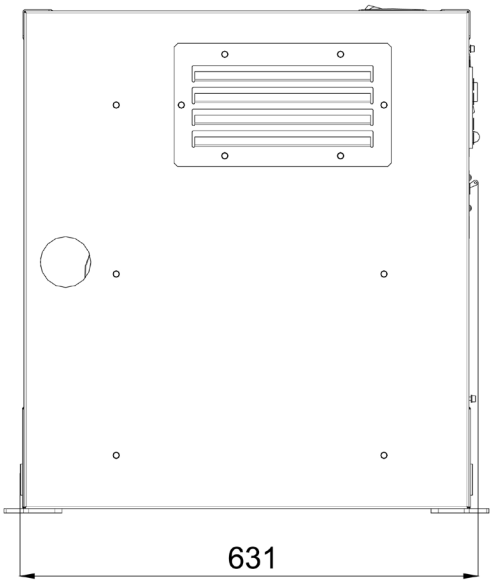
_ Double vibration dumping system

_ Oil drain pump

SOUNDPROOF CABIN

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





mariner 1450 TS - 1680 TS

CE Three-phase output power 14.1 kVA 50 Hz - 16.8 kVA 60 Hz

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	50 Hz	60 Hz
AC alternator -	Synchronous, 4 poles, with AVR	
Cooling -	Air	
Voltage -	400 V	480 V
Frequency -	50 Hz	60 Hz
Amps -	20.4 A	20.2 A
Max power -	14.1 kVA	16.8 kVA
Continuous power -	12.75 kVA	15.8 kVA
Power Factor -	cos ø 0.8	
Insulating class -	H	
Voltage stability -	±2%	
Frequency stability -	±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 3TNV88	
Type -	Diesel	
Cylinders -	nr 3	
Cylinder block material -	Cast iron	
Bore -	88 mm - 3.47 in	
Stroke -	90 mm - 3.55 in	
Displacement -	1642 cc - 100.20 CID	
Power -	18.4 hp - 13.53 kWm (at 1500 RPM)	22.2 hp - 16.33 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 -	4 l/h - 1.06 gl/h	5 l/h - 1.32 gl/h
Air intake -	904 l/min - 32 cfm	1300 l/min - 46 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 Ø -	20 mm - 3/4"	
Exhaust pipe Ø -	50 mm - 2"	
Input/Output fuel pipe Ø -	8 mm - 5/16"	
Dimensions (L x W x H) -	1040 x 631 x 694 mm - 40.9 x 24.8 x 27.3 in (with soundproof box)	
Weight -	344 Kg - 759 lb (with soundproof box)	
Noise Level -	52 dBA at 7 mt (23 ft)	54 dBA at 7 mt (23 ft)

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Three-phase output power 14.1 kVA 50 Hz - 16.8 kVA 60 Hz

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	Accessory	Code
ACCESSORIES ON REQUEST	• Filtering kit: sea water inlet, water filter, valves, fittings D.20 - ref.4	016422
	• Exhaust kit: muffler, silencer, exhaust outlet D.50 MASE	04658
	• Super silenced exhaust kit and separator D.50 MASE	010078
	• Siphon break kit D.16 - ref.3	04290
	• MASE muffler D.50	70795
	• MASE silencer D.50	71809
	• MASE water/gas separator D.50	04488
	• 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
	• Centek 2" water/gas separator - ref.6	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	913903

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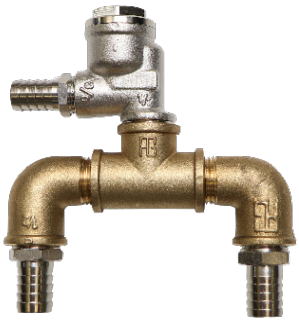
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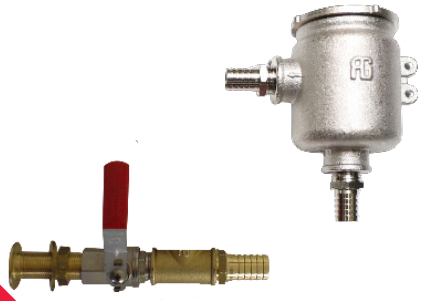
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