# IS 12 - IS 14.6





#### **CONTROL PANEL**



YANMAR ENGINE



INPUT/OUTPUT FUEL PIPE

intercooler W/A assures the perfect functioning of the generator independently of the external ambient temperature, therefore the alternator and the engine will work at ideal temperature optimizing the performance and reliability of the gen-set.

The generator may be installed in any room on the vessel without the need of ventilation blowers.

Extremely compact and quiet, the generator is equipped with a double shock absorbing system to increase comfort: the first one absorbs vibrations from engine-alternator to the frame, the second one absorbs residual micro-vibrations from frame to vessel.









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.



#### mase generators spa

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### Output power 11.2 kW 50 Hz - 13.5 kW 60 Hz



#### **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 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

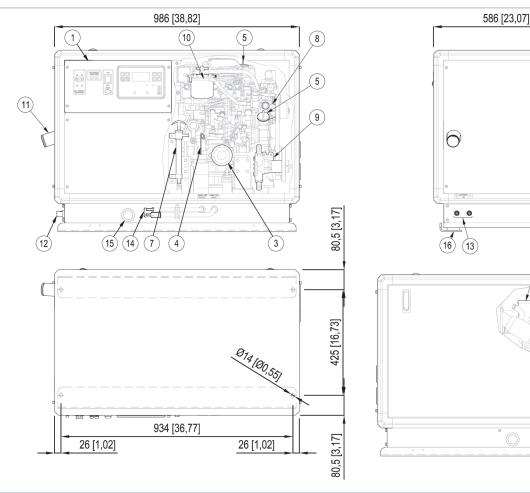
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#### Insulated poles kit (for metal hull boats), dry exhaust kit and keel cooling kit are available on request



- Control panel
- Air/water exchanger
- Oil filter cartridge Engine oil filler
- Oil dipstick
- Air filter 6.
- Oil drump pump
- Fresh water pump
- Sea water pump
- 10. Fuel filter

- Exhaust manifold (d.50 mm)
- Sea water intake (d.20 mm)
- 13. Battery connections
- Fuel tank connections (d.8 mm)

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- 15. Cables outlet
- 16. Genset fixing brackets



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	50 Hz	60 Hz
AC alternator -	Synchronous, 4 poles, brushless, self-energized, with automatic voltage regulator (AVR)	
Cooling -	Air / Water (Intercooler W / A)	
Voltage -	115 or 230 V	120 or 240 V
Frequency -	50 Hz	60 Hz
Amps -	97.4 or 48.7 A	117.3 or 58.7 A
Max. Power -	11.2 kW	13.5 kW
Continuous power -	10.2 kW	12.3 kW
Power Factor -	cos ø l	
Insulating class -	Н	
Voltage stability -	±2%	
Frequency stability -	±5%	
The power is referred to a sea water t	emperature up to 31°, an atmosferic pressure of	100 KPa and a humidity percentage of 30%
Model -	Yanmar 3TNV88	
Type -	Diesel 4 stroke	
Cylinders -	nr 3	
Cylinder block material -	Cast iron	
Bore -	88 mm - 3.46 in	
Stroke -	90 mm - 3.5 in	
Displacement -	1642 cc - 100.2 CID	
Power -	18.4 hp - 13.72 kWm	22.2 hp - 16.55 kWm
RPM -	1500	1800
Compression ratio -	19.1:1	
Combustion system -	Indirect injection	
Engine head material -	Cast iron	
Speed governor -	Centrifugal mechanical	
Lubrication system -	Forced	
Oil sump capacity with filter -	6.7 l - 1.76 gl	
Engine stop system -	Solenoid valve	
Fuel pump -	Electric	
Max. fuel pump head -	70 cm - 2.29 ft	
Fuel consumption	4 l/h - 0.88 gl/h	5 l/h - 1.1 gl/h
Air intake-	1100 l/min - 241 gl/min	1300 <u>l/min - 285 gl/min</u>
Starting battery -	80 Ah - 12 V	
Battery charger -	40 Ah - 12 V	
Starter motor -	1.2 kW - 12 V	
Max. inclination -	35 Maria 5 Callaria	
Water pump flow -	25 l/min - 5.4 gl/min	28 l/min - 6.1 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) -	986 x 586 x 730.5 mm - 38.8 x 23 x 28.7 in (with soundproof box)  344 Kg - 764 lb (with soundproof box)	
Weight -		
Noise Level -	50 dBA at 7 mt (23 ft)	52 dBA at 7 mt (23 ft)





Code

### Accessory

## ACCESSORIES ON REQUEST

1. Remote control panel START/STOP with 20 mt cable for Comap	037561
2. Remote control panel for Comap IL4 with 20mt cable	039607
3. Mase exhaust kit: sea water lock, silencer, outlet D.50	04658
· Vetus exhaust kit: sea water lock, silencer, outlet D.50	09935
4. Siphon break D.20	03796
5. Filtering kit: sea water inlet, sea water strainer, taps, fittings D.20	016422
6. Mase super silenced exhaust kit & exhaust gas separator D.50	010078
7. Centek 2" muffler	71155
· Vetus LP 50 S muffler	71148
8. Centek 2" water/exhaust gas separator	71156
· Engine oil pressure and temperature sensor kit (Yanmar)	011084
· Vetus MP50 silencer	71751









