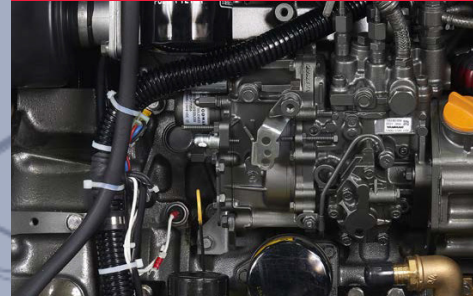


# IS 12 - IS 14.6



CONTROL PANEL



YANMAR ENGINE



INPUT/OUTPUT FUEL PIPE

**the** 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.



COMPACT DESIGN



EASY INSTALLATION



SUPER SILENCED



**mase generators spa**

Via Tortona, 345 | 47522 - Cesena (FC) | Italy

Tel. +39 0547 354311

commercial@masegenerators.com

www.masegenerators.com

**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

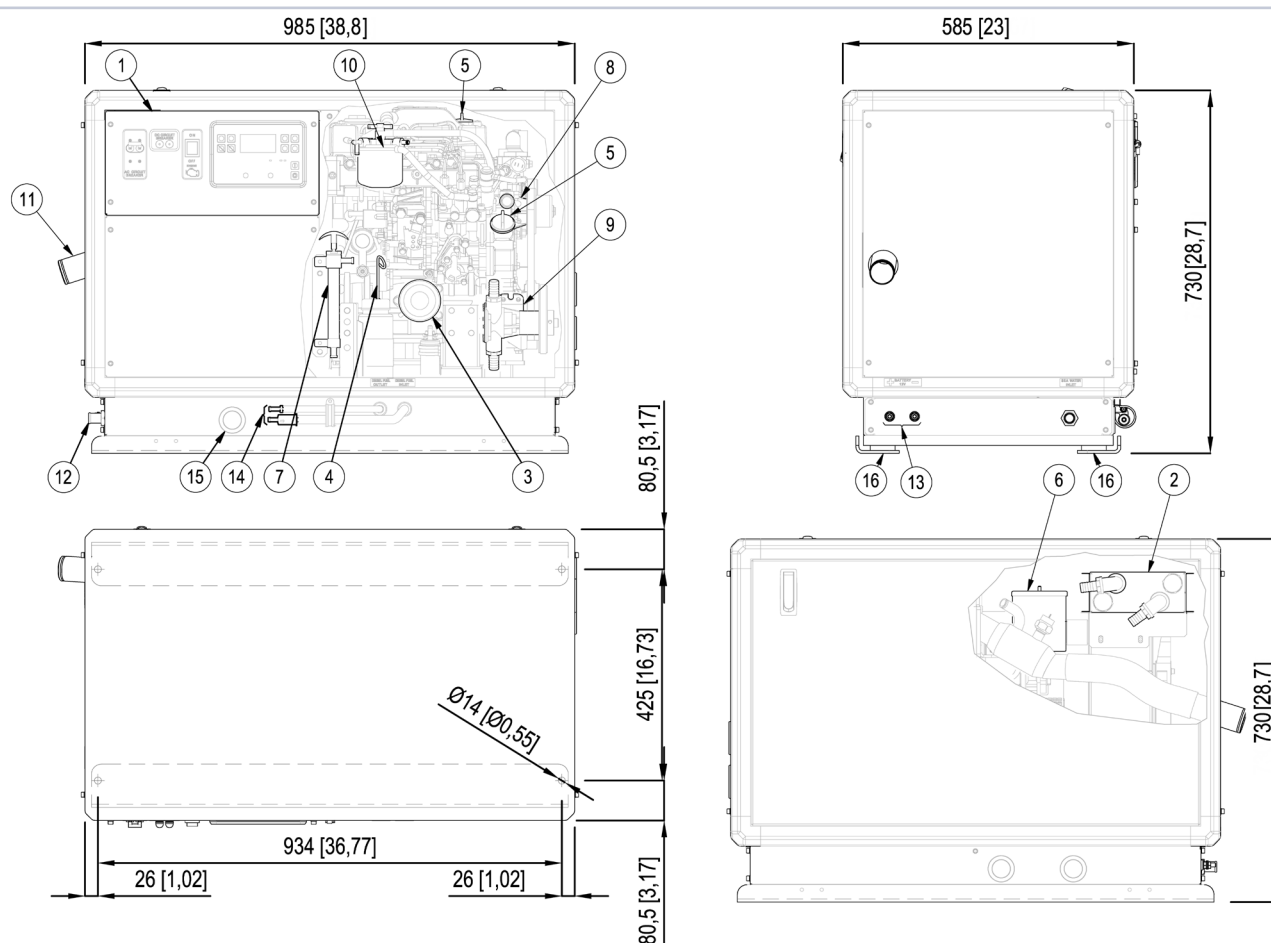
\_ Double vibration dumping system

\_ Oil drain pump

## 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         | 6. Air filter       | 11. Exhaust manifold (d.50 mm) | 14. Fuel tank connections (d.8 mm) |
| 2. Air / water exchanger | 7. Oil drump pump   | 12. Sea water intake (d.20 mm) | 15. Cables outlet                  |
| 3. Oil filter cartridge  | 8. Fresh water pump | 13. Battery connections        | 16. Genset fixing brackets         |
| 4. Oil dipstick          | 9. Sea water pump   |                                |                                    |
| 5. Engine oil filler     | 10. Fuel filter     |                                |                                    |

IS 12

IS 14.6

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**GENERATORS**  
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**Output power 11.2 kW 50 Hz - 13.5 kW 60 Hz**
**50 Hz****60 Hz**  

AC alternator -

Synchronous, 4 poles, brushless, self-energized, with 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

112.5 or 56.3 A

Max power -

11.2 kW

13.5 kW

Continuous power -

10.2 kW

12.3 kW

Power Factor -

cos  $\phi$  1

Insulating class -

H

Voltage stability -

 $\pm 2\%$ 

Frequency stability -

 $\pm 5\%$ 

The power is referred to a sea water temperature up to 31°, an atmospheric 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 - 3.47 in

Stroke -

90 mm - 3.55 in

Displacement -

1642 cc - 100.2 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 -

Centrifugal 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 - 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  $\varnothing$  -

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) -

985 x 585 x 730 mm - 38.8 x 23 x 28.7 in (with soundproof box)

Weight -

344 Kg - 759 lb (with soundproof box)

Noise Level -

50 dBA at 7 mt (23 ft)

52 dBA at 7 mt (23 ft)

IS 12

IS 14.6

**mase**  
**GENERATORS**  
*Believing in change.*

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

## Accessory

## Code

### ACCESSORIES ON REQUEST

• Filtering kit: sea water inlet, sea water strainer, taps, fittings D.20 - ref.5	016422
• Exhaust kit: muffler, silencer, exhaust outlet D.50 MASE - ref.3	04658
• Super silenced exhaust kit & exhaust gas separator D.50 MASE - ref.6	010078
• Siphon break D.20 - ref.4	03796
• 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 c.71751 with soundproofing sponge	039866
• Vetus Separator LGS5038	71717
• Centek muffler 2" - ref.7	71155
• Centek 2" water/gas exhaust separator - ref.8	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	910507



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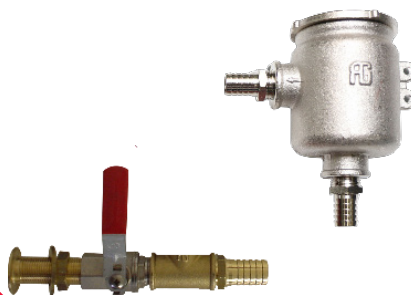
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