

# IS 27 - IS 31



Control panel



Yanmar 1500 RPM engine



Input/output fuel pipe



**compact design**

**easy installation**

**super silenced**

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.



Mase Generators spa

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**GENERATORS**  
Believing in change.



**Control panel**

- CBU EVO IL4 device controls and drives the genset. A large display and control pushbuttons allow an easy use and monitoring of the unit:
- Manual start
- Voltage Vac
- Frequency Hz
- Hour meter
- Genset Battery voltage
- Low oil pressure alarm
- Engine preheating
- Warning and shutdown 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
- Thermal and magneto-thermal protection

**Engine**

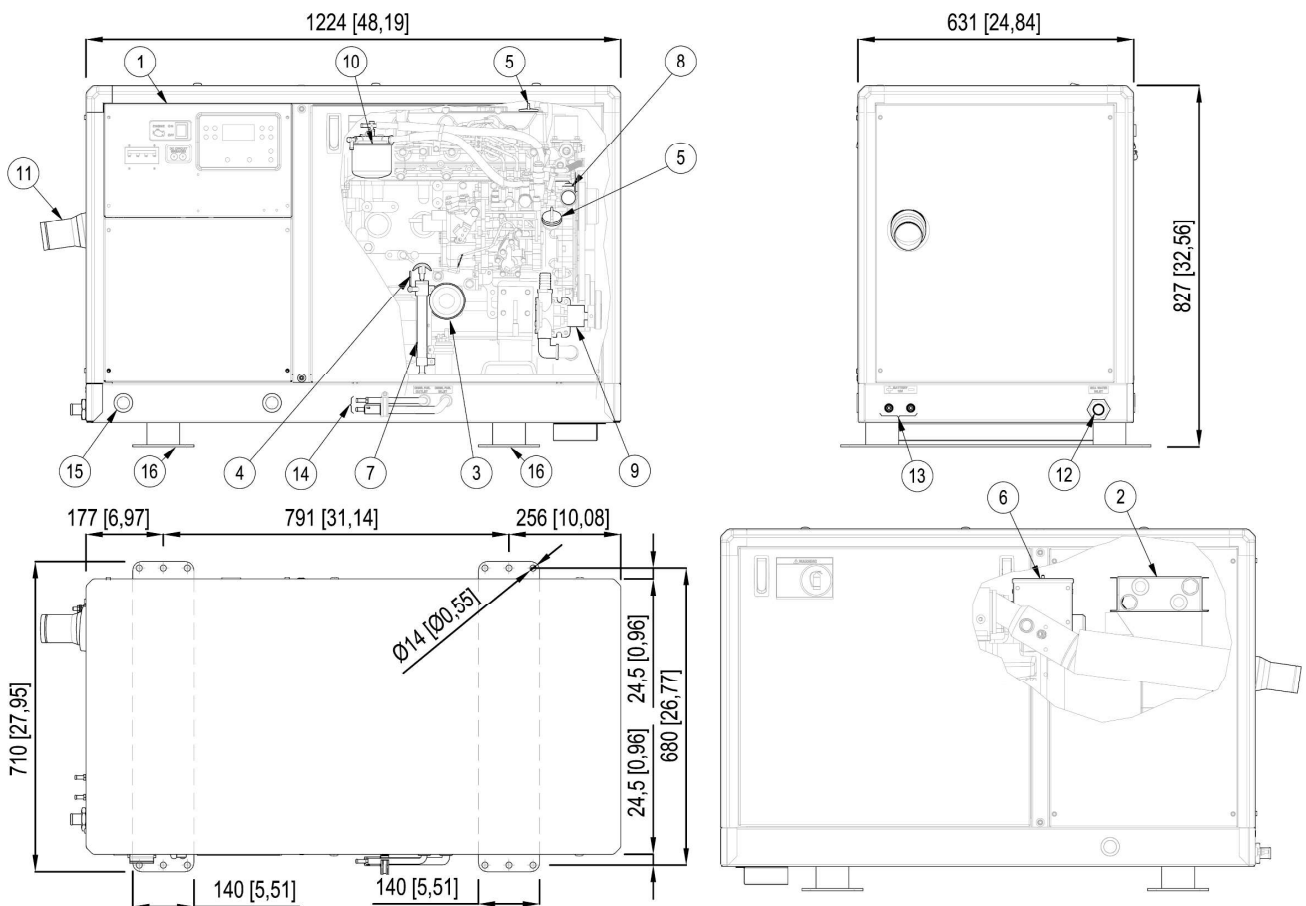
- Easy maintenance access to the feeding and lubrication systems, the sea water pump and the air filter
- Double vibration dumping system
- Oil drain pump

**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

TECHNICAL DRAWINGS



- 1 -Control panel
- 2 -Air/water exchanger
- 3 -Oil filter cartridge
- 4 -Oil dipstick
- 5 -Engine oil filler
- 6 -Air filter
- 7 -Oil drump pump
- 8 -Fresh water pump

- 9 -Sea water pump
- 10-Fuel filter
- 11-Exhaust manifold (ø76 mm)
- 12-Sea water intake (ø30 mm)
- 13-Battery connections
- 14-Fuel tank connections (ø8 mm)
- 15-Cables outlet
- 16-Genset base brackets



Output power 29 kW single-phase

50 Hz

60 Hz



AC alternator	Synchronous, 4 poles, brush less, with automatic voltage regulator (AVR)	
Cooling	Air/Water (Intercooler W/A)	
Voltage	115 - 230 V	120 - 240 V
Frequency	50 Hz	60 Hz
Amps	252 - 126	283 - 141
Max. Power	29 kW	34 kW
Continuous power	27 kW	31 kW
Power Factor	1 cos $\phi$	
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 4TNV98	
Type	Diesel 4 stroke	
Cylinders	nr 4	
Cylinder block material	Cast iron	
Bore	98 - 3.8 mm-in	
Stroke	110 - 4.3 mm-in	
Displacement	3319 - 169.4 cc-CID	
Power	47 - 35.04 hp-kWm	56 - 41.75 hp-kWm
RPM	1500	1800
Compression ratio	18:1	
Combustion system	Direct injection	
Engine head material	Cast iron	
Speed governor	Centrifugal mechanical	
Lubrication system	Forced	
Oil sump capacity with filter	10.5 - 2.3 l-gl	
Engine stop system	Stop solenoid	
Fuel pump	Electric	
Max. fuel pump head	70 - 2.29 cm-ft	
Fuel consumption	10.7 - 2.3 l/h-gl/h	12.4 - 2.7 l/h-gl/h
Air intake	2500 - 660.43 l/h-gl/h	3000 - 792.51 l/h-gl/h
Starting battery	80 - 12 Ah-V	
Battery charger	40 - 12 Ah-V	
Starter battery	2.3 - 12 kW-V	
Max. inclination	30°	
Water pump flow	40 - 8.8 l/min-gl/min	45 - 9.9 l/min-gl/min
Sea water inlet pipe $\phi$	25 - 0.98 mm-in	
Exhaust pipe $\phi$	63.5 - 2.5 mm-in	
Input/Output fuel pipe $\phi$	8 - 0.3 mm-in	

Dimensions (L x W x H)	1225 x 630 x 830 mm - 48.2 x 24.8 x 32.6 in (with soundproof box)	
Weight	625 Kg - 1388 lb (with soundproof box)	
Noise Level	54 dBA at 7 mt (23 ft)	56 dBA at 7 mt (23 ft)

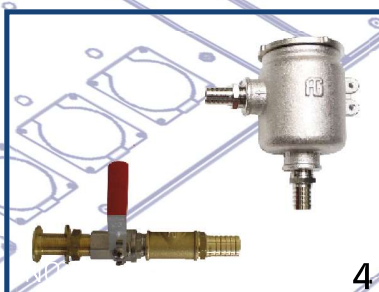


Accessory

Code

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. Siphon break D.25	015849
4. Filtering kit: sea water inlet, sea water strainer, taps, fittings D.25	03793
5. Centek 2" 1/2 Muffler	71714
• Vetus LP 60 S Muffler	71711
6. Water/exhaust gas separator - 2" 1/2 Centek	71713
• Transmitter kit: oil/water	011084
• Vetus MP 60 Silencer	71746



Note

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