

# IS 16 - IS 19



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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**mase**  
**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**

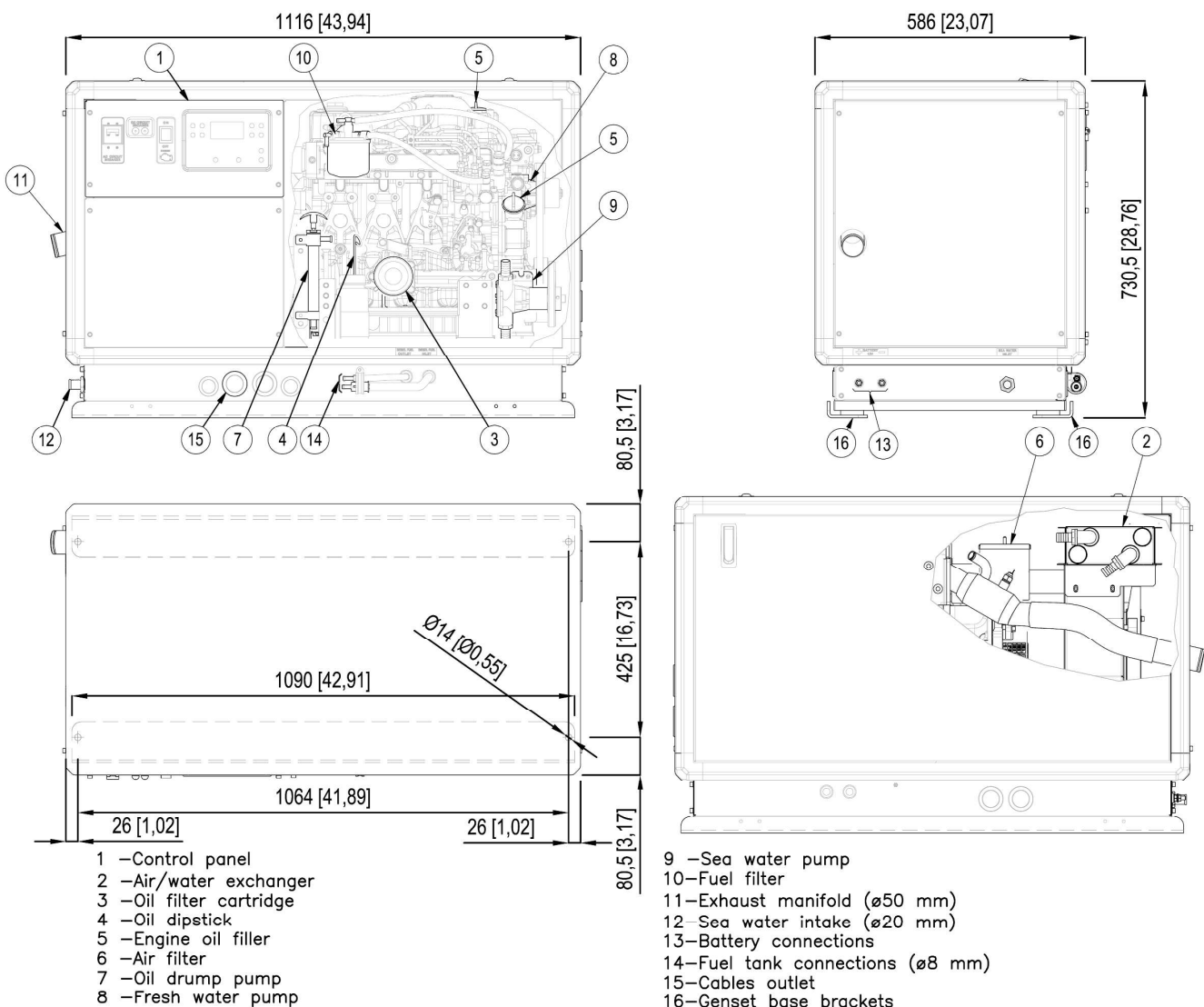
- Easy maintenance access to the feeding and lubrication systems, the sea water pump and the air filter
- Double vibration dumping system
- Oil drain pump

**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





Output power 15,3 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 regulation	Electronic	
Voltage	115 - 230 V	120 - 240 V
Frequency	50 Hz	60 Hz
Amps	133 - 66.5	153.3 - 76.6
Max. Power	15.3 kW	18.4 kW
Continuous power	13.7 kW	16.7 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 4TNV88	
Type	Diesel 4 stroke	
Cylinders	nr 4	
Cylinder block material	Cast iron	
Bore	88 - 3.46 mm-in	
Stroke	90 - 3.5 mm-in	
Displacement	2190 - 133.6 cc-CID	
Power	24.5 - 18.6 hp-kWm	29.4 - 21.92 hp-kWm
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	7.4 - 2.85 l-gl	
Engine stop system	Stop solenoid	
Fuel pump	Electric	
Max. fuel pump head	70 - 2.29 cm-ft	
Fuel consumption	5.6 - 1.23 l/h-gl/h	6.7 - 1.47 l/h-gl/h
Air intake	1500 - 396.25 l/h-gl/h	1800 - 475.50 l/h-gl/h
Starting battery	80 - 12 Ah-V	
Battery charger	40 - 12 Ah-V	
Starter battery	1.2 - 12 kW-V	
Max. inclination	30°	
Water pump flow	25 - 5.4 l/min-gl/min	28 - 6.1 l/min-gl/min
Sea water inlet pipe $\phi$	20 - 0.78 mm-in	
Exhaust pipe $\phi$	50 - 1.9 mm-in	
Input/Output fuel pipe $\phi$	8 - 0.3 mm-in	

Dimensions (L x W x H)	1116 x 586 x 730.5 mm - 44 x 23 x 29 in (with soundproof box)	
Weight	430 Kg - 948 lb (with soundproof box)	
Noise Level	50 dBA at 7 mt (23 ft)	

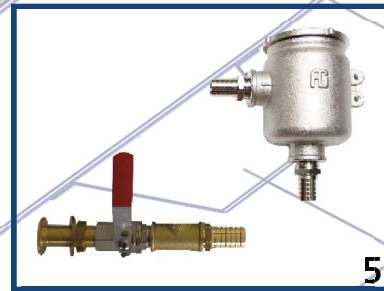


Accessory

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. 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. Water/exhaust gas separator - 2" Centek	71156
• Transmitter kit: oil/water	011084
• Silencer Vetus MP50	71751



Note