

VS 22 LOW



CONTROL PANEL



YANMAR ENGINE



INPUT/OUTPUT FUEL PIPE

the engine revs vary depending on the required load; therefore, if you have only few electrical applications connected, the genset will automatically calibrate to the required power, while ensuring exceptional voltage and frequency stability. That means lower fuel consumption, reduction of emissions, lower need of maintenance and more silent operation. Extremely compact and quiet, the genset 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.



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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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
- Engine rpm
- Hour meter
- Genset battery voltage
- Oil low pressure alarm
- Engine preheating
- Engine high temperature alarm
- Alarm history
- Maintenance warnings

_ Emergency stop button

_ Protection against short circuit and overload

ENGINE

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

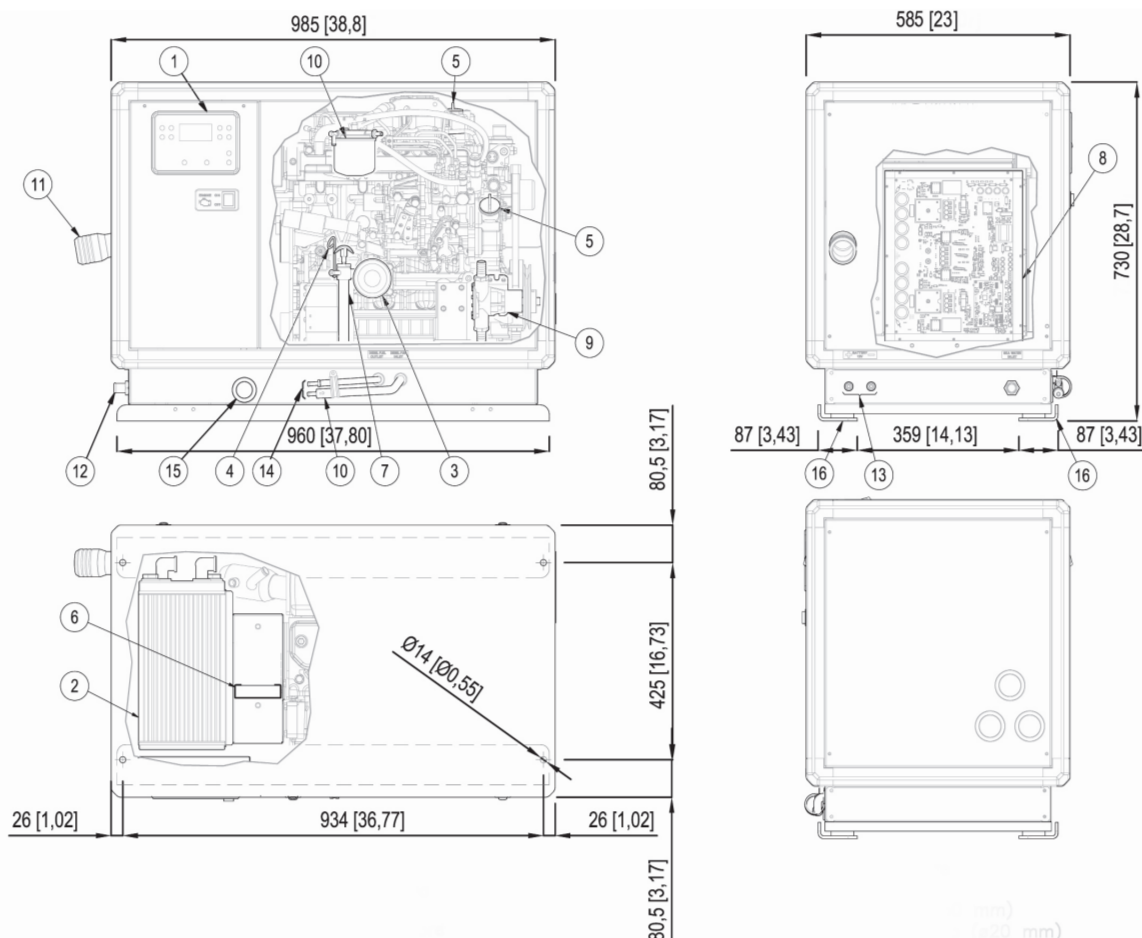
_ Double vibration dumping system

_ 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.60 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. Inverter | 13. Battery connections | 16. Genset fixing brackets |
| 4. Oil dipstick | 9. Sea water pump | | |
| 5. Engine oil filler | 10. Fuel filter | | |

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Output power 20 kW 50 Hz - 60 Hz

50 Hz

60 Hz

AC alternator -	Permanent magnets (PMG)	
Cooling -	Air / Water (Intercooler W / A)	
Voltage -	230 V	240 V
Frequency -	50 Hz	60 Hz
Amps -	95.7 A	91.7 A
Continuous power -	20 kW	
Max power -	22 kW	
Power Factor -	cos ø 1	
Insulating class -	H	
Voltage stability -	±1%	
Frequency stability -	±1%	

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 mm - 3.47 in	
Stroke -	90 mm - 3.55 in	
Displacement -	2190 cc - 133.64 CID	
Power -	33.5 hp - 24.64 kWm (at 2200 RPM)	
RPM -	1850 - 2200	
Compression ratio -	19.1:1	
Combustion system -	Direct injection	
Engine head material -	Cast iron	
Speed governor -	Electronic with actuator	
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 - 2.29 ft	
Fuel consumption -	5.8 l/h - 1.53 gl/h	
Air intake -	1500 l/min - 396.25 gl/min	1800 l/min - 475.50 gl/min
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 -	28 l/min - 7.39 gl/min	
Sea water inlet pipe Ø -	20 mm - 3/4"	
Exhaust pipe Ø -	60 mm - 2" 1/2	
Input/Output fuel pipe Ø -	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 - 360 Kg - 794 lb (with soundproof box)

Noise Level - 54 dBA at 7 mt (23 ft)

Accessory

Code

ACCESSORIES ON REQUEST

• Filtering kit: sea water inlet, sea water strainer, taps, fittings D.20 - ref.4	016422
• Siphon break D.20 - ref.3	03796
• Vetus LP60 muffler	71711
• Vetus silencer MP60	71746
• Silencer Vetus c.71746 with soundproofing sponge	039865
• Vetus Separator LGS6050	71712
• Centek muffler 2" 1/2 - ref.5	71714
• Centek 2" 1/2 water/gas exhaust separator - ref.6	71713
• Parallel cable	036625
• Soundproofing cabin	041194
• Remote control panel START/STOP with 20 mt cable for Comap IL4 - ref.1	037561
• Remote control panel for Comap IL4 with 20mt cable - ref.2	039607
• Cruise KIT	913819



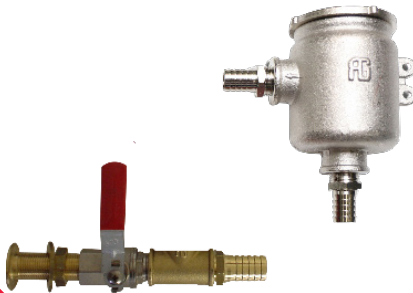
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