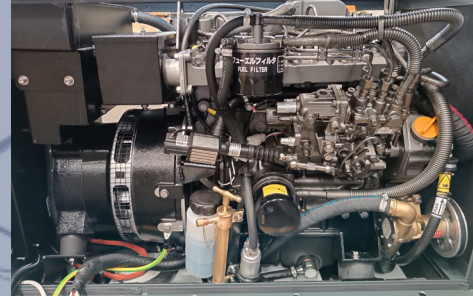


# VS 22 LOW



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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*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
- 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

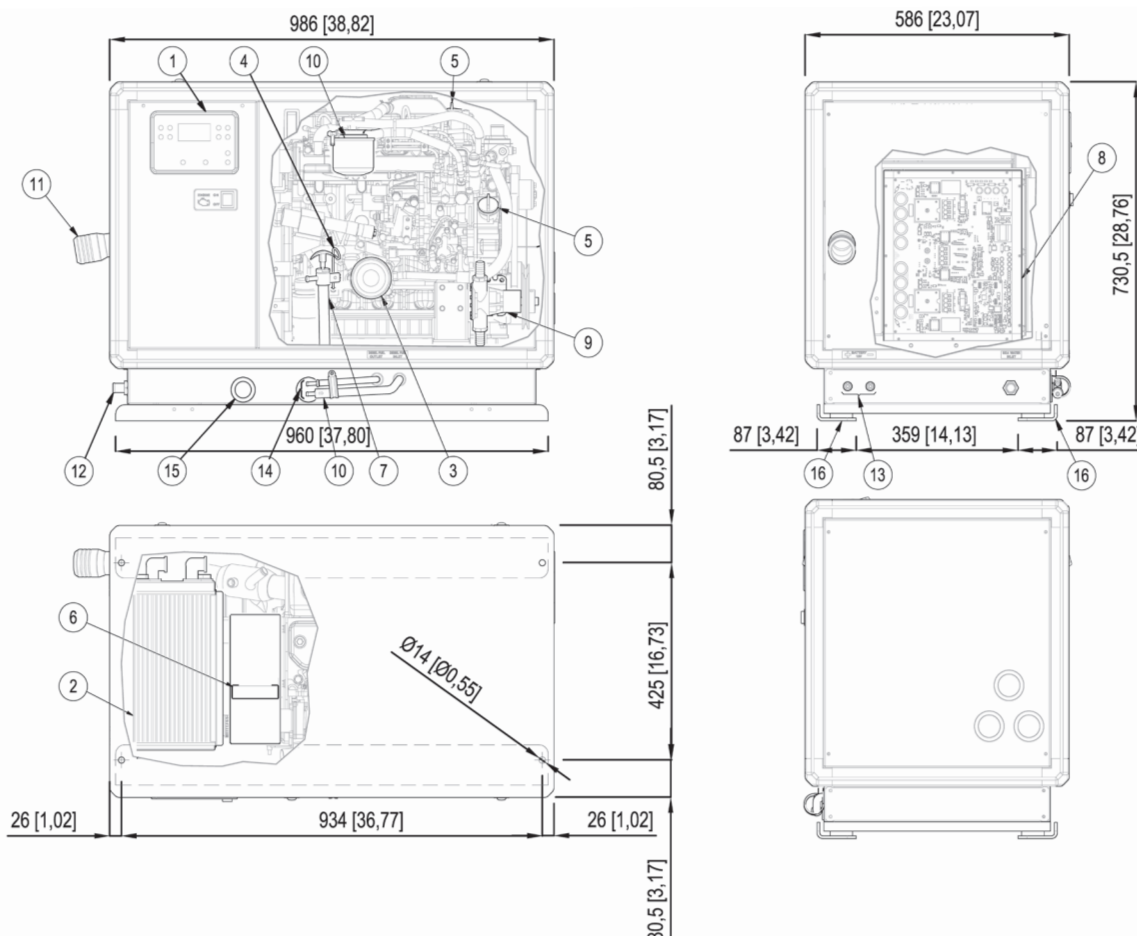
\_ Double vibration dumping system

\_ 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   |                                |                                    |

# VS 22 LOW

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Output power 22 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 -	87 A	83.3 A
Continuous power -	20 kW	
Power Factor -	cos $\phi$ 1	
Insulating class -	H	
Voltage stability -	$\pm 1\%$	
Frequency stability -	$\pm 1\%$	

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 - 3.46 in	
Stroke -	90 mm - 3.5 in	
Displacement -	2190 cc - 133.6 CID	
Power -	40.8 hp - 30.4 kWm (at 2200 RPM)	
RPM -	1500 - 2200	
Compression ratio -	19.1:1	
Combustion system -	Direct injection	
Engine head material -	Cast iron	
Speed governor -	With actuator	
Lubrication system -	Forced	
Oil sump capacity with filter -	7.4 l - 2.85 gl	
Engine stop system -	Solenoid valve	
Fuel pump -	Electric	
Max. fuel pump head -	70 cm - 2.29 ft	
Fuel consumption -	9.6 l/h - 2.53 gl/h (at 2200 RPM)	
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 -	30°	
Water pump flow -	30 l/min - 7.92 gl/min (at 2200 RPM)	
Sea water inlet pipe $\varnothing$ -	20 mm - 3/4"	
Exhaust pipe $\varnothing$ -	60 mm - 2" 1/2	
Input/Output fuel pipe $\varnothing$ -	8 mm - 5/16"	
Dimensions (L x W x H) -	986 x 586 x 730.5 mm - 38.82 x 23 x 29 in (with soundproof box)	
Weight -	365 Kg - 804.68 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. Siphon break D.22	038393
4. Filtering kit: sea water inlet, sea water strainer, taps, fittings D.20	016422
5. Centek 2" 1/2 muffler	71714
• Vetus LP60 muffler	71711
6. Water/exhaust gas separator - 2" 1/2 Centek	71713
• Separator Vetus LGS6050	71712
• Silencer Vetus MP60	71746



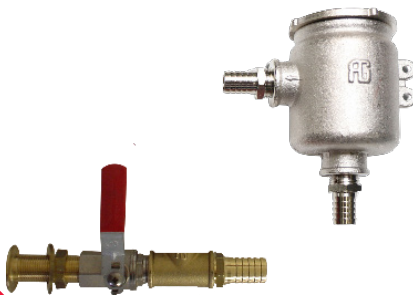
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