IS 20 T - IS 23 T





CONTROL PANEL



YANMAR ENGINE



INPUT/OUTPUT FUEL PIPE

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

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

without the need of ventilation blowers.

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www.masegenerators.com



GENERATORS Believing in change.

$C \in$

Three-phase output power 19.2 kW 50 Hz - 23 kW 60 Hz

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 lubrification systems, the sea water pump and the air filter

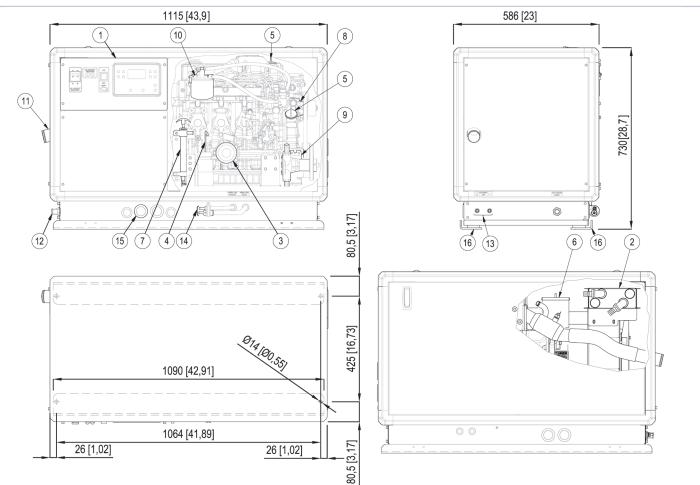
_ Double vibration dumping system

_ 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
- 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 (d.50 mm)
- 12. Sea water intake (d.20 mm)
- 13. Battery connections
- 14. Fuel tank connections (d.8 mm)
- 15. Cables outlet
- 16. Genset fixing brackets



Three-phase output power 19.2 kW 50 Hz - 23 kW 60 Hz

	50 Hz	60 Hz ≎EPA ■		
AC alternator -	Synchronous, 4 poles, brushless, self-energized, with AVR			
Cooling -	Air / Water (Intercooler W / A)			
Voltage -	400 V 480 V			
Frequency -	50 Hz	60 Hz		
Amps -	27.7	7 A		
Max power -	19.2 kVA	23 kVA		
Continuous power -	17.1 kVA	20.8 kVA		
Power Factor -	cos ø 0.8			
Insulating class -	Н			
Voltage stability -	±2%			
Frequency stability -	±5%			
The power is referred to a sea water temperature up to 31°, an atmosferic pressure of 100 KPa and a humidity				
Model -	percentage of 30%	/TNI\/90		
Type -	Yanmar 4TNV88			
Cylinders -	Diesel			
Cylinder block material -	nr 4			
Cylinder block material -	Cast iron			
25.5	88 mm - 3.47 in			
Stroke -	90 mm - 3.55 in			
Displacement -	2190 cc - 133.64 CID			
Power -	24.5 hp - 18.02 kWm (at 1500 RPM) 29.4 hp - 21.63 kWm (at 1800 RPM)			
RPM -	1500	1800		

Power -	24.5 hp - 18.02 kWm (at 1500 RPM) 29.4 hp - 21.63 kWm (at 1800 R		
RPM -	1500	1800	
Compression ratio -	19.1:1		
Combustion system -	Direct injection		
Engine head material -	Cast iron		
Speed governor -	Centrifugal mechanical		

Forced

Oil sump capacity with filter -	6.7 I - 1.89 gl
Engine stop system -	Electromagnet
Fuel pump -	Electronic

Lubrication system -

Max. fuel pump head -	700 mm - 27.5 in		- 27.5 in	
E I	E C I /I 4 40 I /I			_

r der consumption -	3.0 1/11 - 1.40 gi/11	6.2 I/TI - 1.64 GI/TI
Air intake -	1300 l/mi	n - 46 cfm
Starting battery -	80 Ah	- 12 V

Battery charger -	40 Ah - 12 V
Starter motor -	1.2 kW - 12 V

Motor in union floor	25 1/2010 6 6 01/2010	
Max. inclination -		25°

Water pump flow -	25 l/min - 6.6 gl/min			28 I/min - 7.4 gl/min
Consulator inlet pipe (A		20	2 / 4"	

Sea water inlet pipe Ø -	20 mm - 3/4"
Exhaust pipe Ø -	50 mm - 2"

Input/Output fuel pipe Ø - 8 mm - 5/16"

Dimensions (L x W x H) - 1115 x 585 x 730 mm - 43.9 x 23 x 28.7 in (with soundproof box)

Weight - 430 Kg - 948 lb (with soundproof box)

Noise Level - 50 dBA at 7 mt (23 ft)

52 dBA at 7 mt (23 ft)



Three-phase output power 19.2 kW 50 Hz - 23 kW 60 Hz

Code **Accessory**

ACCESSORIES ON REQUEST

 Filtering kit: sea water inlet, water filter, valves, fittings D.20 - ref.4 	016422
• Siphon break kit D.20 - ref.3	03796
Vetus LP50 muffler	71148
Vetus MP50 silencer	71751
Silencer c.71751 with soundproofing sponge	039866
Vetus LGS5038 separator	71717
Centek 2" muffler - ref.5	71155
Centek 2" water/gas separator - ref.6	71156
 Remote START/STOP panel with 20m cable for Comap IL4 - ref.1 	037561
Comap IL4 remote start panel with 20m cable - ref.2	039607
IS Yanmar oil water senders kit	011084
Cruise Kit 2024	910507

