



Control Panel

The gen-set control panel was designed to include, in one single panel, the switches, control devices and the protection devices
The components are the following :

- Engine cut-off module for automatic stop of engine in case of high water temperature, low oil pressure, high alternator temperature.
- Hour-meter.
- Start-stop button.
- Breaker for protection against of overload or short circuit.
- Thermal switch for D.C. electric circuit.

Engine

- Easy access in case of maintenance to the feeding system and lubrication, of the sea/water pump and the air filter.
- Safety stop in case of low oil pressure.
- Safety stop in case high water/exhaust gas temperature.
- Oil and fuel filters of easy access.

Alternator

- Synchronous, 4 poles, self-excited.
- Rotor and stator coated with epoxy resin against external agents.
- Rotor dynamically balanced.
- Insulation class H.

Soundproof cabin

A new project engineering design with a structure of a draw piece of aluminum supporting, painted aluminum panels type 5754 of high resistance to external agents.
Good accessibility inside canopy, makes maintenance services more easy.

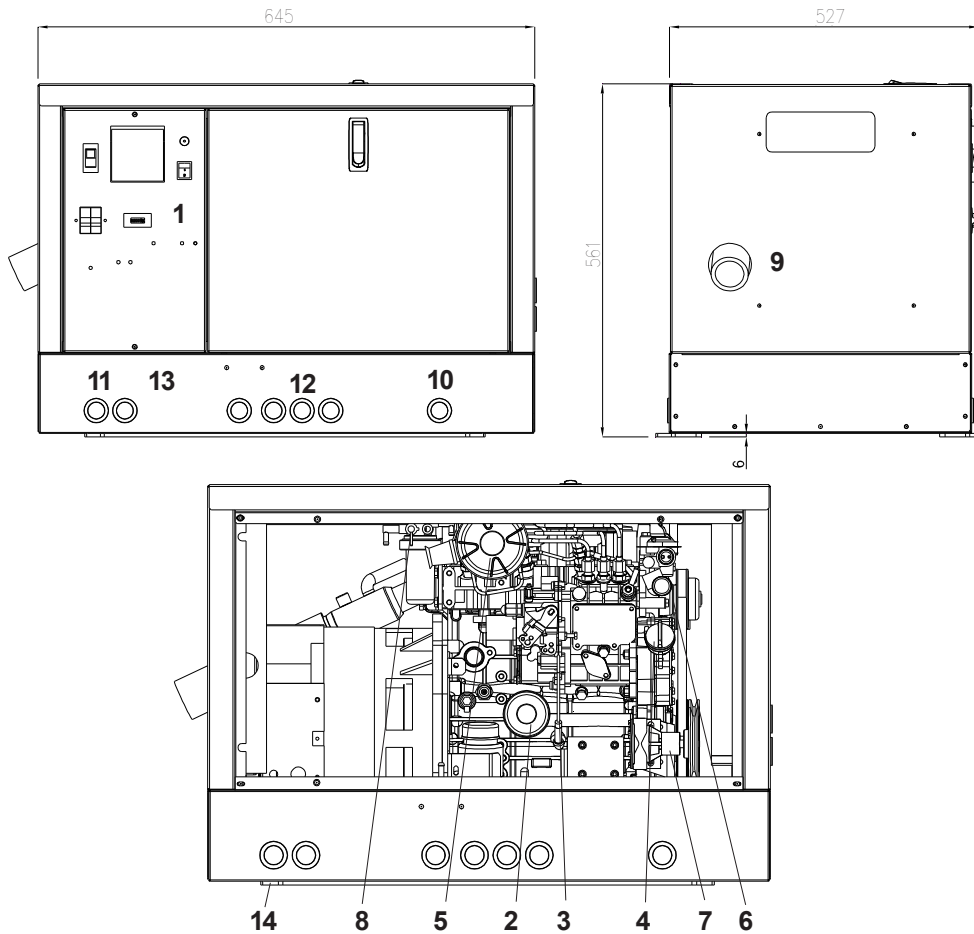
Engine	50 Hz	60Hz
Model	KUBOTA Z482	
Type	Diesel 4 stroke	
Cylinders (nr.)	2	
Cylinder block material	Cast iron	
Bore (mm. - in.)	67 - 2,6	
Stroke (mm.- in.)	68 - 2,6	
Displacement (cc. - CID)	479 - 29,2	
Power (hp)	11,1	13,3
RPM	3000	3600
Injection system	Indirect	
Engine head material	Cast iron	
Speed governor	Centrifugal mechanical	
Lubrication system	Forced	
Engine stop system	Stop solenoid	
Fuel pump	Electric	
Fuel pump discharge (cm. - ft)	70 - 2,3	
Starting battery (Ah-V)	45 - 12	
Starter (kW-V)	0,7 - 12	
Max. inclination	30°	
Water pump flow (l/min. - gl/min.)	20 - 5,3	

Alternator	50 Hz	60Hz
Type	Synchronous, 4-poles self excited	
Cooling	Air	
Voltage (V)	115 - 230	120 - 240
Frequency (Hz)	50	60
Amps	53 - 26,5	59,2 - 29,6
Max. power (kW)	6,1	7,1
Continuous power (kW)	5,6	6,6
Power factor (cos ø)	1	
Insulating class	H	
Voltage stability	±10%	
Frequency stability	±5%	

Cooling system

The cooling of the engine is based on a closed inner flow of coolant. The system is based on a cupronickel heat exchanger seawater/coolant type, where the thermal exchange occurs between coolant and seawater. Two separate pumps contribute to the flow of the coolant and the sea water.

	50 Hz	60Hz
Dimension (Lenght x Width x Height.)	645 x 527 x 561mm - 25,4x20,7x22,1 (in.) (with soundproof box)	
Weight	125 Kg. - 275 (lb) (with soundproof box)	
Noise Level	55 dB _A at 7mt	56 dB _A at 7mt



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|---------------------------------|--|
| 1 - Control panel | 8 - Fuel filter |
| 2 - Engine oil filter cartridge | 9 - Seawater exhaust connection (ø 50mm) |
| 3 - Oil dipstick | 10 - Seawater inlet (ø 16mm) |
| 4 - Engine oil cap | 11 - Battery connection |
| 5 - Air filter | 12 - Fuel tank connection (ø 8mm) |
| 6 - Closed circuit water pump | 13 - Electric cables outlet |
| 7 - Seawater pump | 14 - Fixing stirrups |

FITTINGS

EXHAUST COMPONENTS KIT

SIPHON BREAK

WATER-GAS SEPARATOR KIT

STARTING REMOTE CONTROL PANEL WITH INSTRUMENTS

*This drawing is only a reference and is not indicated for the installation. For more information, you may contact your local dealer or **mase** generators S.p.A..*

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Dealer: