



### Control Panel

The gen-set control panel has short dimensions (86x124mm, 3.4x4.9in.). It is supplied with 10mt wire shielded. Designed with the most modern technology, it is supplied inside with a microchip. The keyboard is made by polyester shockproof with grade of protection IP54 and includes:

- Hour-meter.
- Start-stop button.
- Alarm lamps and low oil pressure.
- Engine and alternator high temperature alarm lamps

### 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 filter.
- Oil drain pump.

### Alternator

- Synchronous, 2 poles, self-regulated, brush less self-excited.
- Rotor and stator epoxy resin coated against external agents.
- Insulation class H.
- High temperature coils protection.

### Soundproof cabin

A new project engineering design with a structure of a draw piece of aluminum supporting, painted aluminum panels of high resistance to external agents. Of limited weight and easy accessibility to the inner cabin in case of maintenance services.

### 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.

Engine	50 Hz	60Hz
Model	KUBOTA D722	
Type	Diesel 4 stroke	
Cylinders (nr.)	3	
Cylinder block material	Cast iron	
Bore (mm)	67	
Stroke (mm)	68	
Displacement (cc)	719	
Power (hp)	16.6	20.0
RPM	3000	3600
Combustion system	Indirect	
Engine head material	Aluminum	
Speed governor	Centrifugal mechanical	
Lubrication system	Forced	
Engine stop system	Stop solenoid	
Oil sump capacity with filter (L - gal)	3.8 - 1.00	
Fuel pump	Electric	
Fuel pump discharge (cm)	70	
Fuel consumption (L/h - gal/h)	3.1 - 0.82	3.9 - 1.03
Air intake (L/min. - gal/min.)	800	950
Battery charger (Ah-V)	45 - 12	
Starter (kW-V)	0,7 - 12	
Battery charger (A-V)	10 - 12	
Max. inclination	30°	
Water pump flow (L/min)	20	

Alternator	50 Hz	60Hz
Type	Synchronous, 2-poles, self-excited	
Cooling	Air/water ( Intercooler W/A )	
Voltage (V)	115 - 230	120 - 240
Frequency (Hz)	50	60
Current (A)	74.7 - 37.4	80.0 - 40.0
Max. power (kW)	8.6	9.6
Continuous power (kW)	7.8	8.8
Power factor ( cos $\phi$ )	1	
Insulating class	H	
Voltage stability	±10%	
Frequency stability	±5%	

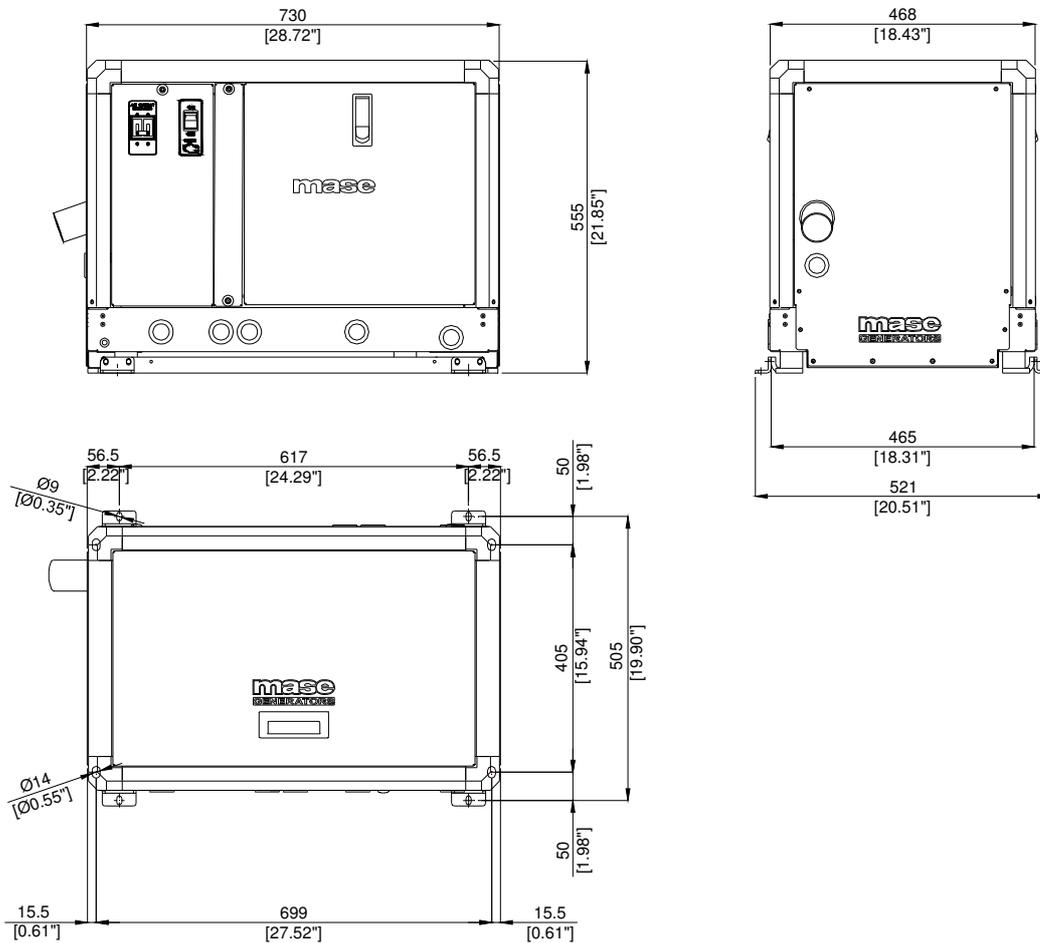
### Cooling system

The cooling of the engine is based on a closed inner flow of coolant.

The system is based on a heat exchanger seawater/coolant type, of cupronickel, where the thermal exchange occurs between the two liquids.

Two separate pumps contribute to the flow of the coolant and the sea water. The cooling of the air inside the gen-set is obtained through a seawater/air heat exchanger. This provides the efficacious cooling of the alternator and the optimal temperature for the best performance and reliability of the gen-set despite its on board allocation and room temperature.

	50 Hz	60Hz
Dimensions (Leng. x Width x Height)	730 x 468 x 555mm (with canopy)	
Weight	185 Kg.(with canopy)	
Noise power level	54 dB <sub>A</sub> at 7mt	56 dB <sub>A</sub> at 7mt



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

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## FITTINGS

- EXHAUST COMPONENTS KIT
- SIPHON BREAK
- W.G. SEPARATOR KIT

Dealer: