



## 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 in case of overload or short circuit.
- Thermal switch.

## 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.
- Oil vacuum pump.

## Alternator

- Synchronous, 4 poles, self-excited, brushless, with electronic regulation of the voltage (AVR).
- Rotor and stator epoxy resin coated against external agents.
- Rotor dynamically balanced.
- Insulation class H.

## Soundproof cabin

A new design with a structure of a draw piece of aluminium supporting painted aluminium panels type 5754 highly resistant to external agents. Of limited weight and easy accessibility to the inner cabin in case of maintenance services.

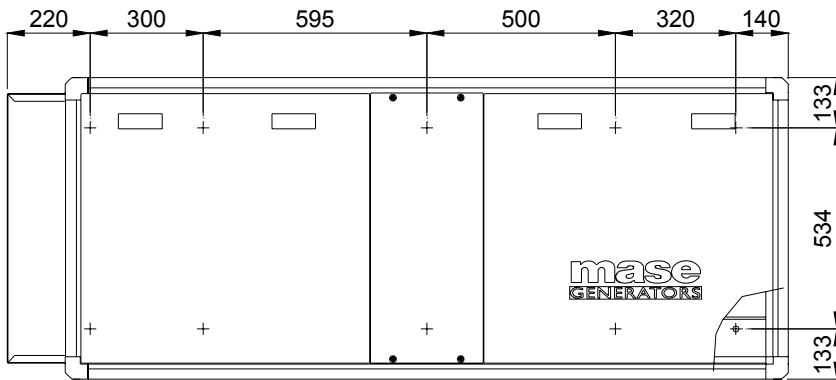
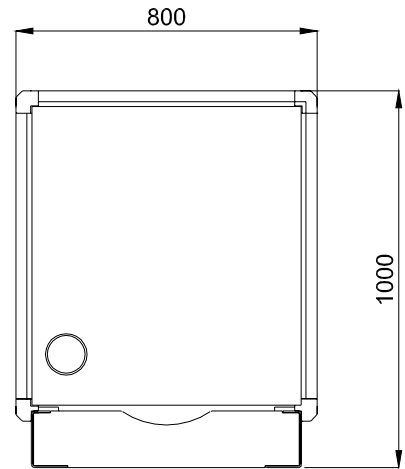
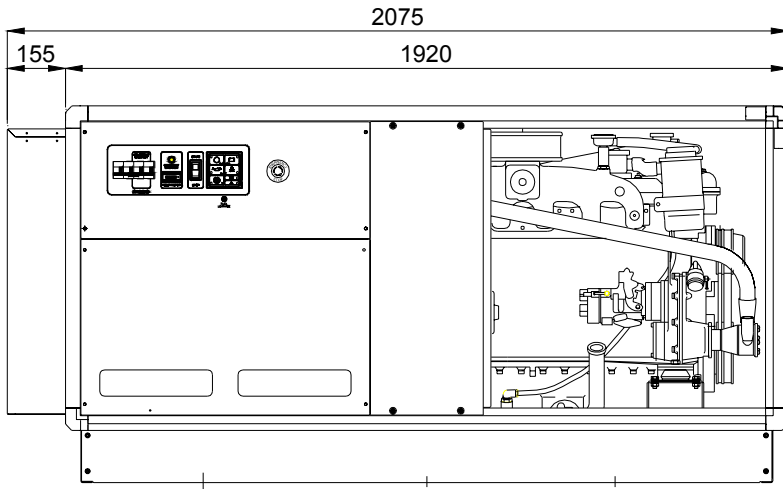
ENGINE	50 Hz	60 Hz
Model	JOHN DEERE 4045 TFM	
Type	Diesel 4 stroke turbo	
Cylinders (nr.)	4	
Cylinder block material	Cast iron	
Bore (mm. - in.)	106	
Stroke (mm.- in.)	127	
Displacement (cc. - CID)	4500	
Power (hp)	76	85
RPM	1500	1800
Combustion system	Direct injection	
Engine head material	Cast iron	
Speed governor	Electronic	
Lubrication system	Forced	
Oil sump capacity with filter(l -gl)	13.3 - 2.9	
Engine stop system	Fuel solenoid	
Fuel pump	Mechanical	
Fuel pump discharge (cm. - ft)	80 - 2.62	
Fuel consumption (l/h - gl/h)	14.4 - 3.16	17.5 - 3.85
Air intake (m <sup>3</sup> /min)	2.4	2.9
Starting battery (Ah-V)	100 - 24	
Starter (KW-V)	4 - 24	
Max. inclination	30°	
Water pump flow (l/min. - gl/min.)	60 - 13.2	72 - 15.8

ALTERNATOR	50 Hz	60 Hz
Type	Synchronous, 4-poles, self-excited	
Cooling	Air	
Voltage (V)	400	220 - 127
Power factor ( cos $\phi$ )	0.8	
Max.Power (kw - kVA)	52.8 - 66	61.6 - 77
Cont.Power (kw - kVA)	48 - 60	56 - 70
Battery charger (Ah-V)	40 - 12	
Insulating class	H	
Voltage stability	±2%	
Frequency stability	±5%	

## Cooling system

The cooling of the engine is based on a closed inner flow of coolant. The system is made up of a heat exchanger sea water/coolant. Two separate pumps contribute to the flow of the coolant and the sea water. The cooling of the alternator is obtained through sea water/air heat exchanger.

	50 Hz	60 Hz
Dimension (Length x Width x Height.)	2075x800x1000mm (81.6x31.5x39.4 inch) (with soundproof box)	
Weight	980 Kg. (2000 lb) (with soundproof box)	
Noise Level	58 dB <sub>A</sub> a 7mt (23 ft.)	



## FITTINGS

EXHAUST COMPONENTS KIT

SIPHON BREAK

REMOTE CONTROL PANEL COMPLETE OF INSTRUMENTS

*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.***

***mase generators S.p.A.** reserves the right to change the design or specifications without notice and without any obligations or liability whatsoever. For more information, you may contact your local **mase** dealer.*

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