



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, brush less self-excited, electronic voltage regulator (AVR).
- 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 |
|-------------------------------------|------------------------|
| Model | Yanmar 3TNV82 |
| Type | Diesel 4 stroke |
| Cylinders (nr.) | 3 |
| Cylinder block material | Cast iron |
| Bore (mm - in.) | 82 - 3,23 |
| Stroke (mm - in.) | 84 - 3,31 |
| Displacement (cc - cu.in.) | 1330 - 81,2 |
| Power (hp) | 15,4 |
| Rated rpm | 1500 |
| Combustion system | Indirect |
| Engine head material | Cast iron |
| Speed governor | Centrifugal mechanical |
| Lubrication system | Forced |
| Oil sump capacity (L - qt.) | 5,5 - 5,8 |
| Engine stop system | Stop solenoid |
| Fuel pump | Electric |
| Fuel pump discharge (cm - in.) | 70 - 27,6 |
| Full load consumption (L/h - gal/h) | 2,9 - 0,8 |
| Starting battery (Ah-V) | 70 - 12 |
| Battery charger (Ah-V) | 40 - 12 |
| Starter (kW-V) | 1,4 - 12 |
| Max. inclination | 30° |
| Water pump flow (L/min - gal/min) | 25 - 6,6 |

Alternator

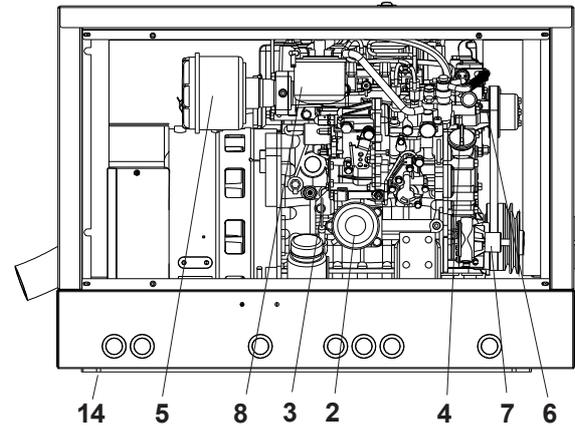
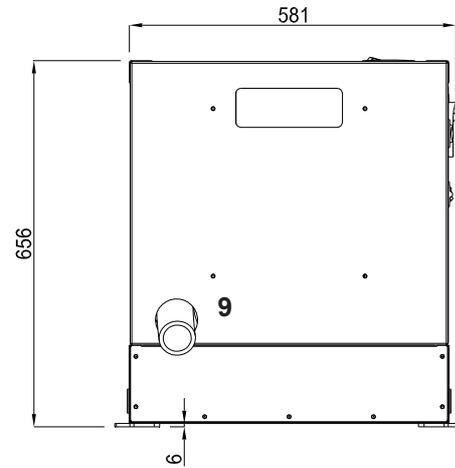
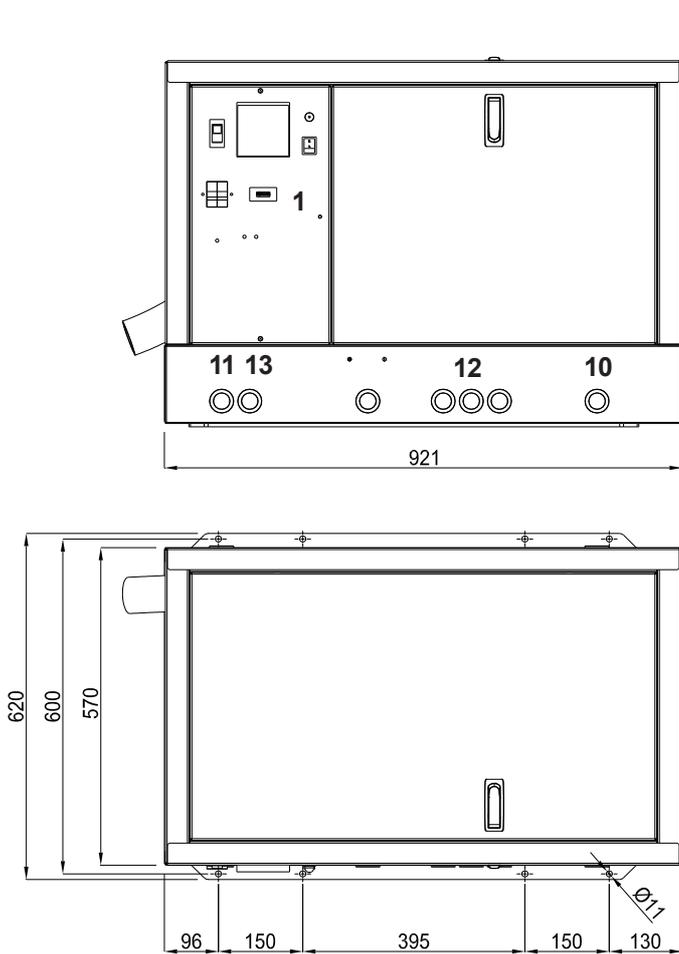
| | 50 Hz |
|-----------------------------|------------------------------------|
| Type | Synchronous, 4-poles, self-excited |
| Cooling | Air |
| Voltage (V) | 400 |
| Frequency (Hz) | 50 |
| Current (A) | 16,2 |
| Max. power (kVA) | 11,2 |
| Continuous power (kVA) | 10,2 |
| Power factor (cos ϕ) | 0,8 |
| Insulating class | H |
| Voltage stability | $\pm 2\%$ |
| Frequency stability | $\pm 5\%$ |

Cooling system

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

50 Hz

| | | |
|-------------------------------------|--|---------------|
| Dimensions (Leng. x Width x Height) | 921 x 581 x 656 mm 36,3 x 22,9 x 25,8 in. | (with canopy) |
| Weight | 295 kg , 649 lb | (with canopy) |
| Noise power level | 51 dBA @ 7mt | |



- 1 - Control panel
- 2 - Engine oil filter cartridge
- 3 - Oil dipstick
- 4 - Engine oil cap
- 5 - Air filter
- 6 - Closed circuit water pump
- 7 - Seawater pump

- 8 - Fuel filter
- 9 - Seawater exhaust connection (ø 50mm)
- 10 - Seawater inlet (ø 16mm)
- 11 - Battery connection
- 12 - Fuel tank connection (ø 8mm)
- 13 - Electric cables outlet
- 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: