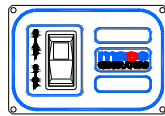


Control Panel on board

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 :

- Electronic device for automatic shutdown of engine in case of high water temperature, low oil pressure, high alternator temperature.
- Hour-meter.
- Start-stop button.
- Circuit breaker for protection against overload or short circuit.
- Thermal switch.



Remote control panel

Remote control panel with 20mt. cable with:

- Start-stop button, engine warning lamp.

Engine

- Easy access for feeding system and lubrication's maintenance
- Safety shutdown in case of low oil pressure.
- Safety shutdown in case of high water temperature.
- Oil and fuel filters of easy access.

Alternator

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

Soundproof cabin

A new project engineering design with a structure of painted steel panels with high resistance to external agents.

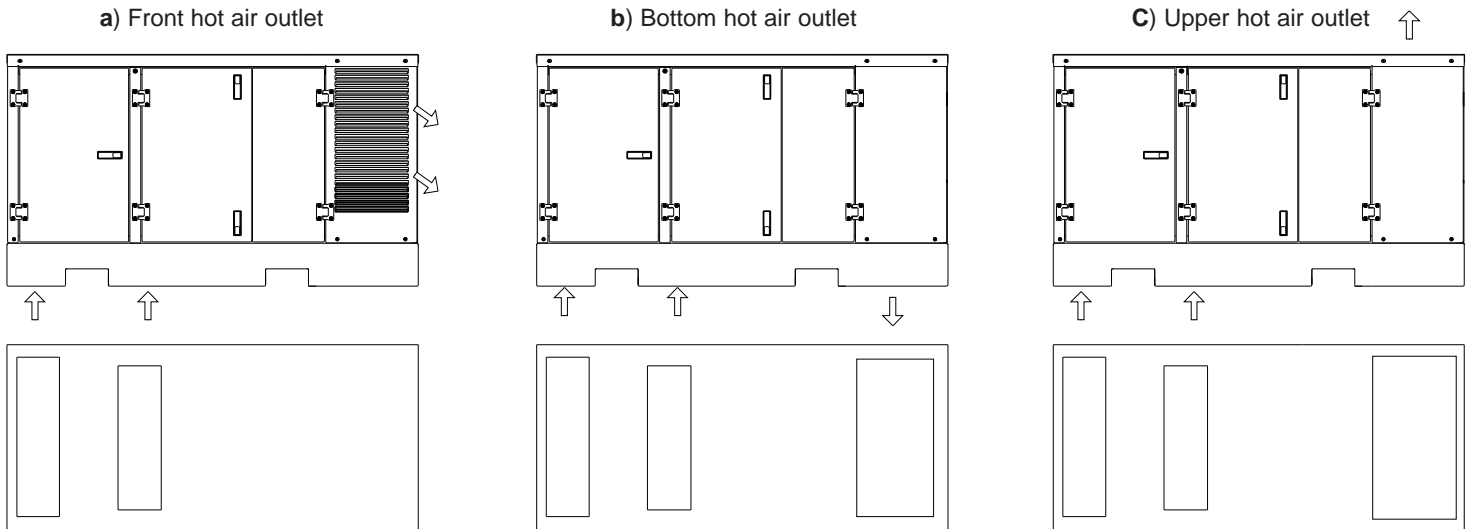
Easy access to the inner cabin in case of maintenance services.

| MODEL | 19DM | 23DT |
|-----------------------------|--|-------------|
| ALTERNATOR | Synchronous, Self-excited, Self-regulated, 4-poles | |
| Type | Single-phase | Three-phase |
| Max. Power | 18,4 kW | 23 kVA |
| Rated Power | 16,7 kW | 20,8 kVA |
| Power Factor (cos ϕ) | 1 | 0,8 |
| Voltage (V) | 120 - 240 | 120 - 240 |
| Frequency (Hz) | 60 | |
| Protection Level | IP 23 | |

| ENGINE | |
|---------------------------------|---------------|
| Type | 4-Stroke |
| Model | Yanmar 4TNV88 |
| Cooling | Water |
| Cylinders | 4 |
| Fuel | Diesel |
| Power (kW / hp) | 21,6 / 29,4 |
| Displacement (cm ³) | 2190 |
| Air intake | Natural |
| RPM | 1800 |
| Oil sump capacity (lt) | 7,4 |
| Consumption (full load) (L/h) | 5,6 |
| Starter | Electric |

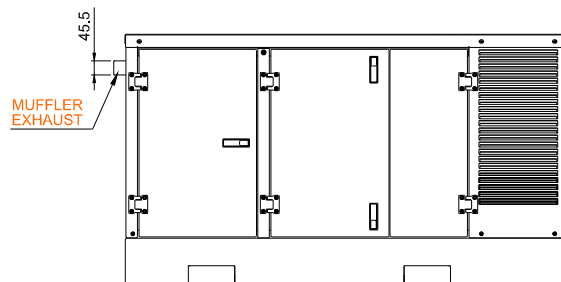
| | |
|----------------------------|--------------------------|
| Dimension (L x W x H) (mm) | 1570 x 650 x 810 |
| Weight (Kg) | 550 |
| Noise level | 63 dB _A a 7mt |

N°3 options for hot air outlet



Exhaust gas from lateral side (standard)

Different exhaust solution on request



*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..*

***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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