

# IS 3.5



CONTROL PANEL



YANMAR ENGINE



INPUT/OUTPUT FUEL PIPE

**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. The generator may be installed in any room on the vessel without the need of ventilation blowers. Extremely compact and quiet, the generator is equipped with a double shock absorbing system to increase comfort: the first one absorbs vibrations from engine-alternator to the frame, the second one absorbs residual micro-vibrations from frame to vessel.

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For more detailed information, please contact your local distributor or Mase Generators S.p.A.

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COMPACT  
DESIGN



EASY  
INSTALLATION



SUPER  
SILENCED



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**mase**  
**GENERATORS**  
*Believing in change.*

## CONTROL PANEL

\_ The CBU module is equipped with a large display and includes multiple functions for the complete monitoring of the generator:

- Manual start
  - Voltage Vac
  - Frequency Hz
  - Engine rpm
  - Hour meter
  - Genset battery voltage
  - Oil low pressure alarm
  - Engine high temperature alarm
  - Alternator high temperature alarm
  - Alarm history
  - Maintenance warnings and 10 meters connection cable
- \_ Emergency stop button
- \_ Thermal protection

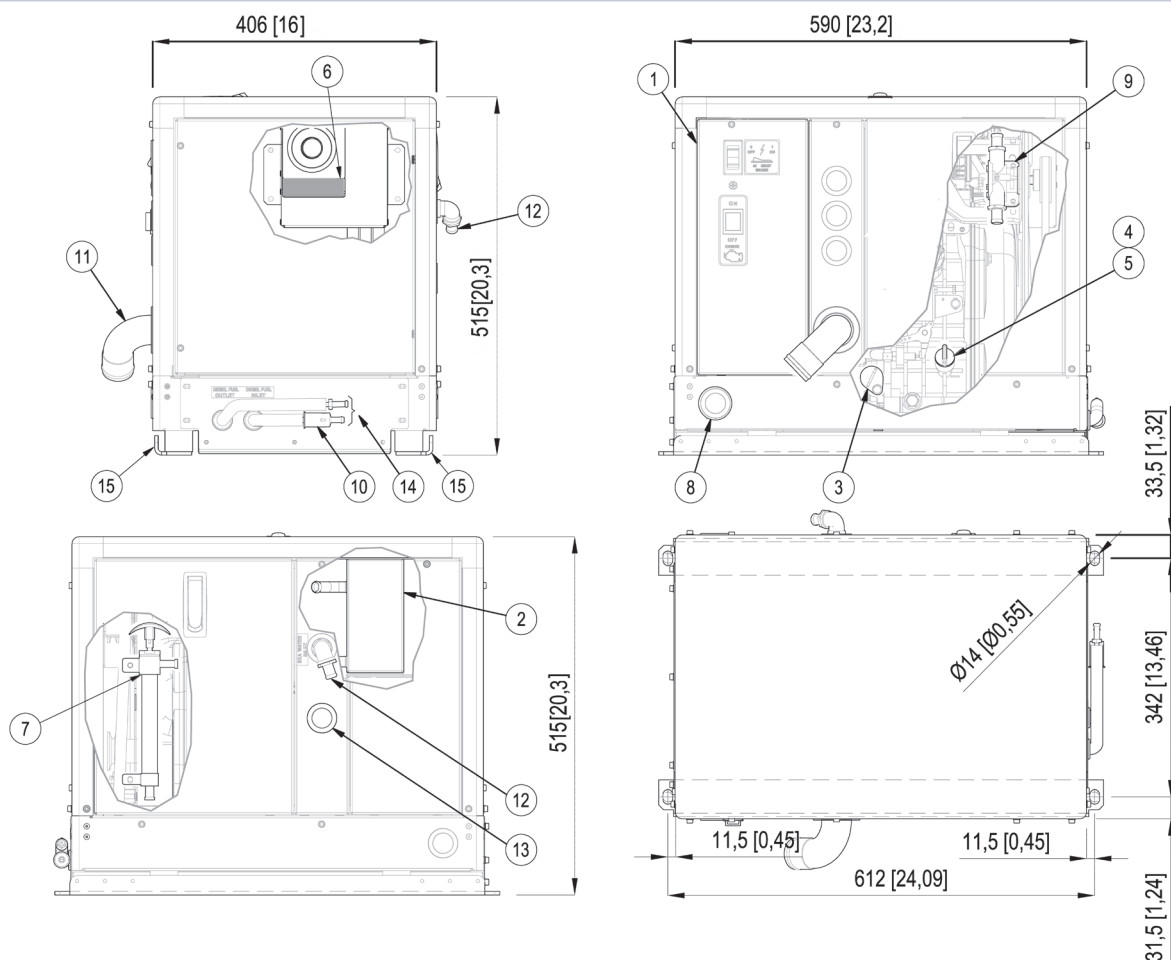
## ENGINE

- \_ Easy maintenance access to the feeding and lubrication systems, the sea water pump and the air filter
- \_ Double vibration dumping system
- \_ Oil drain pump

## SOUNDPROOF CABIN

- \_ Made of extremely light marine aluminum with very high resistance to external agents

Insulated poles kit (for metal hull boats), dry exhaust kit and keel cooling kit are available on request



- |                          |                   |                         |                                    |
|--------------------------|-------------------|-------------------------|------------------------------------|
| 1. Control panel         | 6. Air filter     | 11. Exhaust manifold    | 16. Fuel tank connections (d.8 mm) |
| 2. Air / water exchanger | 7. Oil drain pump | 12. (d.45 mm)           | 17. Genset fixing brackets         |
| 3. Oil filter cartridge  | 8. Cables outlet  | 13. Sea water intake    |                                    |
| 4. Oil dipstick          | 9. Sea water pump | 14. (d.16 mm)           |                                    |
| 5. Engine oil filler     | 10. Fuel filter   | 15. Battery connections |                                    |

## 50 Hz

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| AC alternator -       | Synchronous, 2 poles, self-energized, brushless, with capacitors |
| Cooling -             | Air / Water (Intercooler W / A)                                  |
| Voltage -             | 115 or 230 V                                                     |
| Frequency -           | 50 Hz                                                            |
| Amps -                | 26.1 or 13 A                                                     |
| Max power -           | 3 kW                                                             |
| Continuous power -    | 2.7 kW                                                           |
| Power Factor -        | cos ø 1                                                          |
| Insulating class -    | H                                                                |
| Voltage stability -   | ±10%                                                             |
| Frequency stability - | ±5%                                                              |

The power is referred to a sea water temperature up to 31°, an atmospheric pressure of 100 KPa and a humidity percentage of 30%

|                                 |                                 |
|---------------------------------|---------------------------------|
| Model -                         | Yanmar L70N                     |
| Type -                          | Diesel 4 stroke                 |
| Cylinders -                     | nr 1                            |
| Cylinder block material -       | Aluminium                       |
| Bore -                          | 78 mm - 3.07 in                 |
| Stroke -                        | 67 mm - 2.64 in                 |
| Displacement -                  | 320 cc - 19.53 CID              |
| Power -                         | 6.1 hp - 4.49 kWm (at 3000 RPM) |
| RPM -                           | 3000                            |
| Compression ratio -             | 20.5:1                          |
| Combustion system -             | Direct injection                |
| Engine head material -          | Aluminium                       |
| Speed governor -                | Centrifugal mechanical          |
| Lubrication system -            | Forced                          |
| Oil sump capacity with filter - | 1 l - 0.28 gl                   |
| Engine stop system -            | Solenoid valve                  |
| Fuel pump -                     | Electric                        |
| Max. fuel pump head -           | 700 mm - 27.5 in                |
| Fuel consumption -              | 1.3 l/h - 0.34 gl/h             |
| Air intake -                    | 400 l/min - 14 cfm              |
| Starting battery -              | 45 Ah - 12 V                    |
| Battery charger -               | 10 Ah - 12 V                    |
| Starter motor -                 | 0.8 kW - 12 V                   |
| Max. inclination -              | 25°                             |
| Water pump flow -               | 20 l/min - 5.3 gl/min           |
| Sea water inlet pipe Ø -        | 16 mm - 5/8"                    |
| Exhaust pipe Ø -                | 45 mm - 1.75 in                 |
| Input/Output fuel pipe Ø -      | 8 mm - 5/16"                    |

|                          |                                                                |
|--------------------------|----------------------------------------------------------------|
| Dimensions (L x W x H) - | 590 x 406 x 515 mm - 23.2 x 16 x 20.3 in (with soundproof box) |
| Weight -                 | 96 Kg - 212 lb (with soundproof box)                           |
| Noise Level -            | 54 dBA at 7 mt (23 ft)                                         |

## Accessory

## Code

ACCESSORIES  
ON REQUEST

|                                                                                   |        |
|-----------------------------------------------------------------------------------|--------|
| • Installation kit D.45: filtering set, exhaust set and siphon break D.16         | 040274 |
| • Filtering kit: sea water inlet, sea water strainer, taps, fittings D.16 - ref.3 | 04349  |
| • Exhaust kit: sea water lock, silencer, outlet D.45 - ref.1                      | 04654  |
| • Super silenced exhaust kit & exhaust gas separator D.45 - ref.4                 | 040272 |
| • Siphon break D.16 - ref.2                                                       | 04290  |
| • Muffler D.45                                                                    | 71810  |
| • Silencer D.45                                                                   | 70803  |
| • Water/gas exhaust separator D.45                                                | 040273 |
| • Water protection - ref.5                                                        | 040537 |
| • Soundproofing cabin                                                             | 038509 |
| • Remote START/STOP 20-meter control kit for CBU (3000 RPM)                       | 041238 |
| • Cruise KIT                                                                      | 913822 |

