

## Model: DM320 - 3.20 kVA Marine Range

-  Connections on one side
-  Cooling System: Sea water
-  Electronic management
-  Local and Remote Command
-  Easy Maintenance
-  Reduced Dimensions and Noise Level



Foto Indicativa / Indicative Picture

### Characteristics

|                                    |                 |
|------------------------------------|-----------------|
| Generating Set Model               | DM320           |
| Maximum Power(kVA)                 | 3.20            |
| Phase                              | Single phase    |
| Current (A)                        | 13.00           |
| Voltage                            | 230 V           |
| Frequence                          | 50 Hz           |
| Start up                           | Electric        |
| Cooling System                     | Sea water       |
| Dimensions Open Version (mm)       | N/A             |
| Weight Open Version (Kg)           | N/A             |
| Dimensions Soundproof Version (mm) | 580 x 425 x 525 |
| Weight Soundproof Version (Kg)     | 99              |
| Noise Level (db(A) @ 7 meters)     | 54              |
| Air consumption (m3/min)           | 400.00          |

### Engine

|                                |  |
|--------------------------------|--|
| Engine                         | YANMAR                                     |
| Model                          | L70N                                       |
| Cooling System                 | Sea water                                  |
| Rounds Per Minute              | 3000                                       |
| Number of Cylinders            | 1  |
| Displacement (cc)              | 320  |
| Bore (mm)                      | 78   |
| Stroke (mm)                    | 67   |
| Compression Ratio: 1           | 20.00                                      |
| Oil Cap Capacity (l)           | 1.10                                       |
| Sweet Water Pump Capacity(l)   | 0.00                                       |
| Refrigerant Fluid Flow (l/min) | 0.00                                       |
| Sea Water Pump Flow (l/min)    | 20.00                                      |
| Heat Discharge (kcal/min)      | 0.00                                       |
| Maximum Installation Angle     | 10° Continuous - 22,5° Intermittent        |
| Speed Governor                 | Mechanical                                 |
| Consumption at half load(l/h)  | 0.80                                       |
| Consumption at full load (l/h) | 1.30                                       |
| Recommended fuel               | No. 2D Diesel Fuel:Spec EN 590 - ASTM D975 |

### Standards Applied

Coelmo Generating Sets are marked CE and comply with the following regulations:  
Environmental conditions 1.000 mbar, 25C°, 30% relative humidity. Power referring to ISO 3046.

- Power: ISO 8528
- Directive Machinery : 2006/42/CE - 89/392CEE - 98/37/CE
- Low Voltage : 2006/95/CE - 73/23/CEE - 93/68/CEE
- Electromagnetic Compatibility : 2004/108/CE - 89/336/CEE - 93/68/CEE
- Emissions for non-road engines : 2002/88/CE - 97/68/CE (\*)
- Acoustic emission : 2005/88/CE - 2000/14/CE (\*\*)

\* For non-stationary use only

\*\* For Sound Proof Version Only

Certified Company  
UNI EN ISO 9001 ISO 14001  
SA 8000 ISO 45001

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## Model: DM320 - 3.20 kVA Marine Range

### ■ Alternator

Synchronous, single bearing, brushless 2 poles, single phase, sea water cooled, insulation class &ldquo;H&rdquo;.

#### Connections

|  |                 |
|--|-----------------|
| Minimum Power Cable Section            | 3G2,53G2,53G2,5 |
| Maximum Fuel Pump Prevalence           | 0.50            |
| Fuel Supply Line (Ø mm)                | 8               |
| Fuel Supply Refusal line (Ø mm)        | 6               |
| Oil Drain Cap                          | 3/8 NPT         |
| Maximum Sea Water pump prevalence      | 1.00            |
| Sea Water Supply line (Ø mm)           | 10              |
| Humid outlet pipe line (Ø mm)          | 40              |
| Maximum Exhaust Return Pressure Outlet | 500             |
| Nominal Battery Voltage (V)            | 12              |
| Minimum CCA Rating                     | 400 A; 50 Ah    |
| Minimum Battery Cable Section(mm)      | 35              |

### ■ Accessories Upon Request

- Kit Silenced Muffler
- Kit Sea Water Intake
- Siphon Breaker
- Water Gas Separator
- Electrical Fuel Pump
- Diesel Prefilter with Water Separator
- Intercooler System
- Diesel Water Separator

### ■ Standard Equipment

#### Sound Proof Canopy

Made entirely from marine grade aluminum (LEGA 5754 H111) powder coated, with a structure that forms the boundary to which are applied 5 panels complete with retractable lever locks.

#### EOS<sup>®</sup> Control Panel

Weatherproof control panel for engine protection with LCD display, dimension on the dashboard 96x96 mm, supplied separately for all the generators.

(Possibility to install the control panel on board only for DML DTL Series)

On board the generators there is a selector for manual start bypassing the control panel.

#### Generating Set Anchor Brackets

Number 4 steel brackets to attach the generator to the floor of the boat.

#### Emergency button

Emergency button positioned on the Generating Set to allow for the immediate shutdown in case of danger or damage.

#### Manuals

User and installation manuals of the generating set along with relative engine and alternator user manuals.

## Marine Range: DM320 - 3.20 kVA Digital Control Panel

### Alarms

- Low Oil Pressure
- High Water Temperature
- High Outlet Temperature
- Battery Charger breakdown
- Start failure
- Mechanical failure
- Generator Low Frequency
- Generator High Frequency
- Battery Low Voltage
- Alternator Low Voltage
- Alternator High Voltage
- Maintenance deadline
- Generator Overload

### Measures

- Generator Volt (V)
- Ampere (A)
- Frequency (Hz)
- Battery Volt (Vcc)
- Oil Pressure (bar)
- Engine Temperature (°C)
- Maintenance hours

### Other Features

- 232 Interface for programming via PC
- MODBUS RTU (Optional)

### Digital Control Panel EOS®

