

DM600 6 kW 50 Hz



Coelmo Marine® represents the new benchmark for electrical generation on board. Born from the sea passion, it is the synthesis of decades of technical and design innovation of Coelmo and its extensive experience.

a.c. output	5,5 kW Cont 6,0 kW Max
Power factor	1
Voltage	V 230
Frequency	Hz 50
Starting	electric
Cooling eng / alt	Sea water
Fuel consumption	l/h 2,1
Noise level @ 7 mt	54 dB(A)
Noise level @ 3 mt	56 dB(A)
Noise level @ 1 mt	60 dB(A)
Dimension (with canopy)	mm 650x480x530
Weight (with canopy)	128 kg

Main engine and alternator technical features

ENGINE		ALTERNATOR	
Brand	Nanni Diesel	Brand	COELMO
Model	N2.10	Model	C60
Alimentation	Diesel	Type	Synchronous
Power	10 HP	Rotor and stator coat	Epoxy
Speed / min	3000 RPM	Insulation class	H
Displacement	0,479 litres	High temperature winding protection	yes
Cooling system	Heat exchanger	Tropicalization winding	yes
Transmission	mechanical	Housing	aluminium
Compression ratio	2.60/1	Cooling	Sea water
Bore and stroke	67 x 68 mm	Cooling system piping	AISI 316
Compression ratio	23 / 1	Excitation	brushless
Combustion system	indirect injection	Poles number	2
N° of cylinders	2	Distortions max	6,5%
Electrical equipment	12 Volts	Voltage variation	+/- 5%
Dry weight	37kg	Rating at 2/4	82%
Maximum installation angle	15° (dynamic)	Rating at 3/4	83,5%

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Aspiration	natural	Rating at 4/4	83%
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Control board

The innovative control and command board EOS® represents the ideal interface for everyone that desires to have under control its Generating Set

The system is composed by one command and control panel mounted on bridge and by one control unit directly placed on the Generating set Coelmo Marine®. The dimensions are:

- Control panel to be mounted on the bridge: 96x96mm fix-in household with hermetical retro-closing system;
- In and out signals circuit: mounted in the alternator terminal box; dimensions mm 190x135x40.

The data interchange between the two boards by means of a serial port using a simple signal cable type UTP CAT5 avoids further and bulky wirings from the engine housing to the control bridge. Furthermore it is possible to interface the control board with pre-existing centralized on board system (SCADA or similar). The display on the control board allows visualizing parameters and alarms.

ALARMS	PARAMETERS	DISPLAY
Low oil pressure	Amp,	backlit
High water temperature	Volt	128x64 pixel
High exhaust temperature	Hz	Dimensions 70x40mm
Alternator battery charger failure	Vcc	
Fault start	Time counter	
Mechanical failure	Maintenance remaining hours	
High frequency generator	Water temperature (optional)	
Maintenance deadline	Oil pressure (optional)	
Generator overload		
Low battery voltage		
Low alternator voltage		
High alternator voltage		
Low frequency generator		

Each of these alarms will be visualized on the display and could be set to provide only signals, engine stop or start siren relay.



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Sound proof canopy

Designed completely in polyester dust painted marine aluminium (ALLOY 5754 H111), jointly with the innovative design, the elevated resistance to the external chemical agents and the notable lightness. It has a framework which represents its structure to the which are applied five panels complete with retractable locking levers easily removable, to allow an easy access to any Gen set parts, in the case of ordinary maintenance controls. Furthermore the structure is completely removable to facilitate the extraordinary maintenance operations. The sound proofing is guaranteed by polyurethane sound absorbent panels on polyether basis, at high soundproofing coefficient, through a material elastomer in EPDM MISTO EVA, covered by a coat of reinforced aluminium fibres wired.

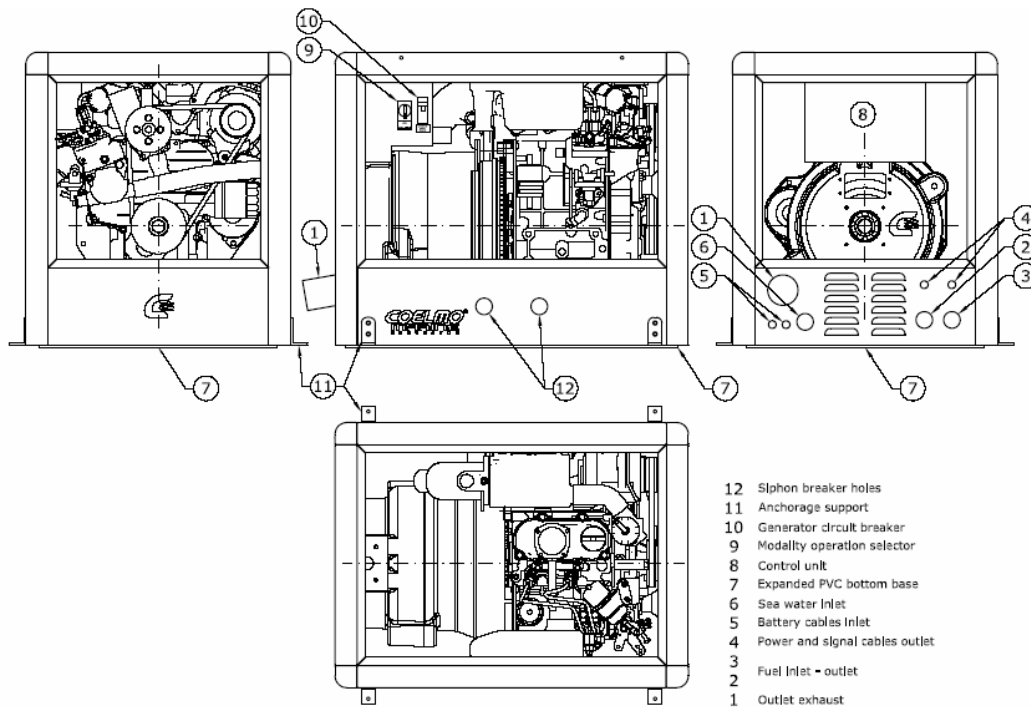
Cooling system

The innovative Coelmo Marine DM600 cooling system has a single cooling circuit both for the engine and the alternator. The sea water cools off before the alternator trough a circuit with a steel piping type AISI 316 (completely built in the aluminium fusion of the alternator housing), from the sea water / cooling water interchanger where the hot fluid from the engine cooling circuit gives its thermal energy to the sea water, bringing the fluid temperature to the optimum conditions for the right Genset operation. This allows removing the intercooler air / water, reducing consequently the overall dimensions and the weight, in addition to the noise level reduction. This system gives the advantage to guarantee the best working conditions of the Generating Set apart from ambient temperature.

Overall dimensions and weight

Dimensions	650x480x530 mm (with canopy)
Weight	128 kg (with canopy)

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Accessories / Optional Extra's

- Siphon Breaker
- Silenced muffler
- Sea water kit
- Spare parts kit
- Electronic voltage regulator
- Senders kit (Oil pressure - engine temperature)
- Fumes separator

The COELMO Srl supplies commercial guarantee certificate valid up to 2 years from the commissioning date, certificated by consignment of the special coupon included in the booklet provided along with Generating Set.