

EneOn[®]

ENERGY ON BOARD

MARINE GENERATORS



 **UFLEX**

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Your energy

Whether you sail for leisure or for work, Eneon® is able to provide all the energy you need, ensuring safety, comfort and maximum performance. The variety of Eneon® product range offers tailor-made solutions to meet every need.

Eneon® means innovation, reliability, safety and sustainability. With Eneon® the advanced technologies meet the experience of those working in the industry for many years.

A safe choice

Wherever you are sailing and in any weather condition, Eneon® is a safe choice. Eneon's reliability is also expressed in its international warranty: a network of official distributors and workshop around the world ensures parts and immediate assistance.

POWER RANGE

Eneon compact, silent and reliable Generating Sets from 3 to 47 kVA are designed to improve the comfort both on board sailing and engine powered boats and to satisfy even the most demanding shipowners.



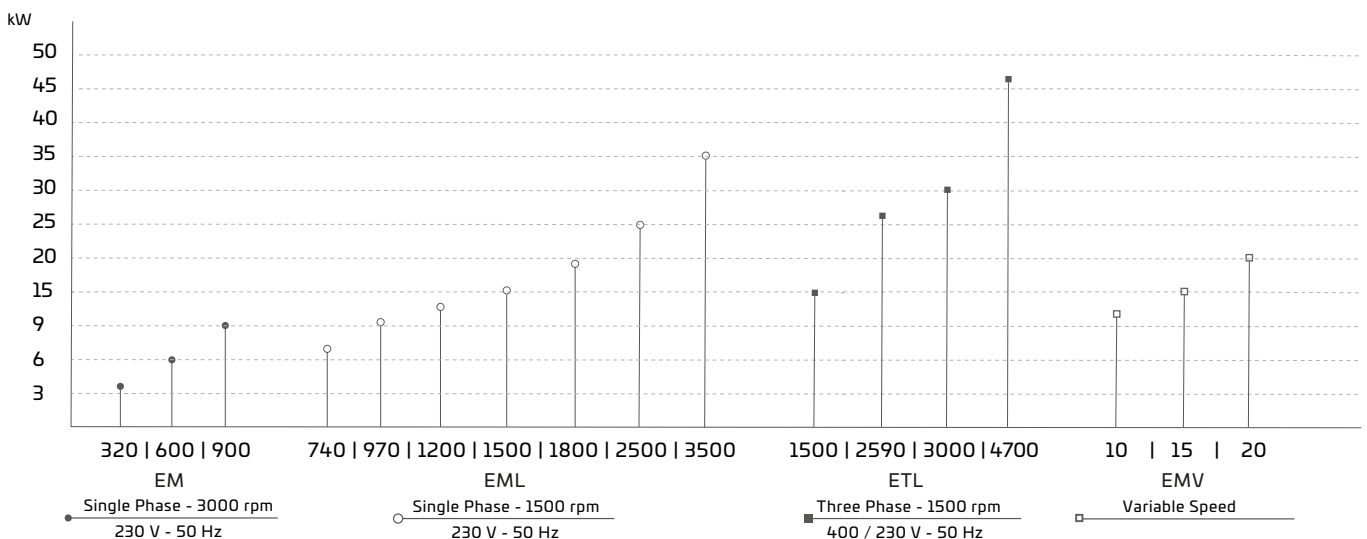
EM SERIES: 3,2 - 9 KVA



EML SERIES: 7,4 - 35 KVA



ETL SERIES: 15 - 47 KVA



FEATURES

- Connection on one side
- Electronic management
- Easy maintenance
- Local and remote control
- Reduced dimensions and noise level

STANDARD EQUIPMENT

- **Sound proof canopy:** Made entirely from marine grade aluminum (LEGA 5754 H111) powder coated,.
- **EOB-3000[®] - EOB-1500[®] control panels:** Waterproof control panel for engine protection with LCD display. Supplied separately for 3.000 rpm EM series generators; Supplied on board the generators for 1.500 rpm EML/ETL series; .
- **Generating set anchor brackets:** 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.

ACCESSORIES

- Silenced muffler kit
- Sea water intake kit
- Siphon breaker
- Water gas separator
- Electrical fuel pump
- Diesel prefilter with water separator
- Diesel water separator
- Manual oil extraction pump

STANDARDS APPLIED

- CE certifie
- 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
- Acoustic emmission: 2005/88/CE - 2000/14/CE (sound proof version only)

EOB-3000® CONTROL PANEL - 3C00025127S



EOB-3000® control panel

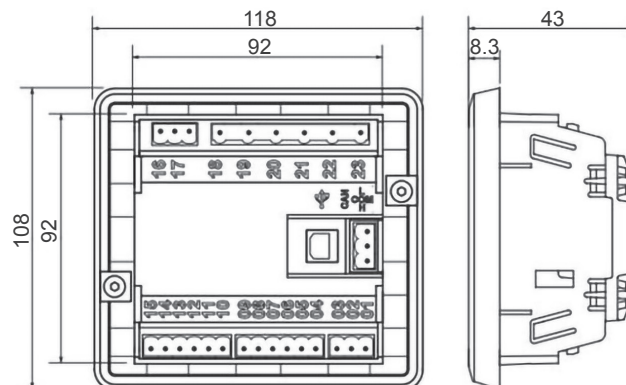
EOB-3000® is the most advanced and complete command and control board for Eneon® Generators, EOB-3000® is available as standard across the EM 3000 rpm range . It allows to monitor all the major electrical and mechanical parameters of the generator, to have it constantly under control. EOB-3000® control panel is installed remotely, and cable connected to the EM series generators. EOB-3000® control panel is not expandable

Alarms

- Low oil pressure
- High water temperature
- High exhaust riser temperature
- Battery Charger fault
- Starting fault
- Mechanical fault
- Low frequency
- High frequency
- Low battery voltage
- Low alternator voltage
- High alternator voltage
- Maintenance request
- Overload

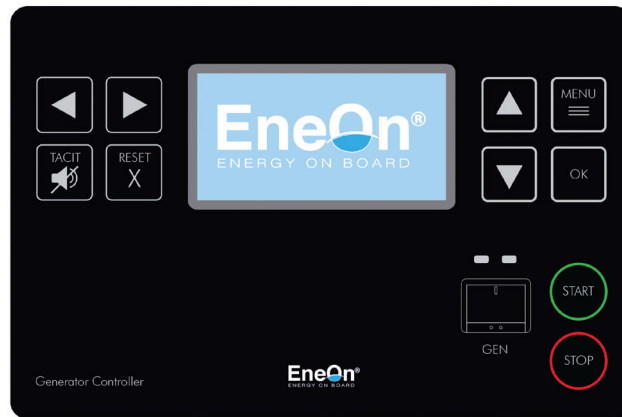
Measurements

- Gen voltage (Vac)
- Current (A)
- Frequency (Hz)
- Battery voltage (Vcc)
- Oil pressure (bar)
- Engine temperature (°C)
- Counter



EOB-3000® dimensions

EOB-1500[®] CONTROL PANEL - 3C00025126P



EOB-1500[®] control panel

EOB-1500[®] control panel is available as standard across the 1500 rpm EML/ETL Eneon[®] generators.

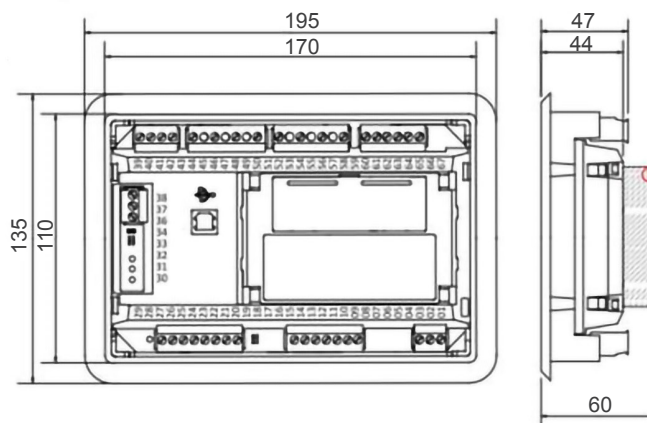
It allows to monitor all the major electrical and mechanical parameters of the generator, to have it constantly under control and it is equipped with a J1939 communication bus to connect external devices that extend the functionalities of the control unit. The EOB-1500 control is standard installed onboard the generators, by ordering an optional panel + cable kit (part No. 24811A) it is possible to install a second remote panel.

Alarms

- Low oil pressure
- High water temperature
- High exhaust riser temperature
- Battery Charger fault
- Starting fault
- Mechanical fault
- Low frequency
- High frequency
- Low battery voltage
- Low alternator voltage
- High alternator voltage
- Maintenance request
- Overload

Measurements

- Gen voltage (Vac)
- Current (A)
- Frequency (Hz)
- Battery voltage (Vcc)
- Oil pressure (bar)
- Engine temperature (°C)
- Counter



EOB-1500[®] dimensions

Features

- Connection on one side
- Easy maintenance
- Local and remote command
- Reduced dimensions and noise level



Model - Part No.	EM320 - 3C0024705B	EM600 - 3C0024706D	EM900 - 3C0024707F
Max power	3.20 kVA/kW	6.00 kVA/kW	9.00 kVA/kW
Phase	Single phase	Single phase	Single phase
Current	14.00 A	26.00 A	40.00 A
Voltage	230 V*	230 V*	230 V*
Frequency	50 Hz*	50 Hz*	50 Hz*
Start up	Electric	Electric	Electric
Alternator cooling system	Sea water	Sea water	Sea water
Dimensions open version	N.A.	N.A.	N.A.
Weight open version	N.A.	N.A.	N.A.
Dimensions soundproof version	580x425x520 mm	650x480x540 mm	800x500x565 mm
Weight soundproof version	99 kg	152 kg	216 kg
Noise level @ 7 meters	54 dB (A)	54 dB (A)	54 dB (A)
Air consumption	0.32 m³/min	0.32 m³/min	0.40 m³/min

Engine

Model	YANMAR L70N	KUBOTA Z482	KUBOTA D722
Cooling system	Sea water-Air	With heat exchanger	With heat exchanger
RPM	3000	3000	3000
Number of cylinders	1	2	3
Displacement	320 cc	479 cc	719 cc
Bore	78 mm	67 mm	67 mm
Stroke	67 mm	68 mm	68 mm
Compression ratio: 1	20.00	23.00	23.00
Oil cap capacity	1.10 l	2.10 l	2.70 l
Fresh water pump capacity	-	2.70 l	2.70 l
Refrigerant fluid flow	-	22.00 l/min	22.00 l/min
Sea water pump flow	20.00 l/min	12.00 l/min	12.00 l/min
Heat discharge	-	34.00 kcal/min	51.00 kcal/min
Maximum installation angle	10° continuous / 22.5° intermittent		
Speed governor	Mechanical	Mechanical	Mechanical
Consumption at half load	0.80 l/h	1.60 l/h	1.90 l/h
Consumption at full load	1.30 l/h	2.70 l/h	3.60 l/h
Recommended fuel	No. 2D Diesel Fuel:Spec EN 590 -ASTM D975		

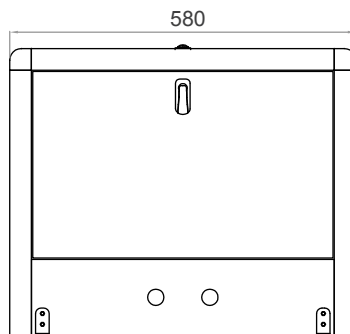
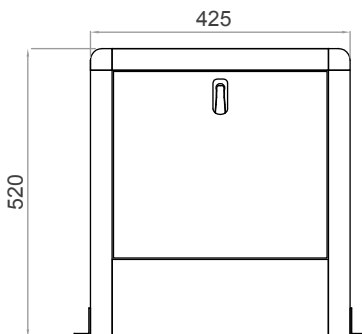
* 240/120V - 60Hz models are available on request

Alternator

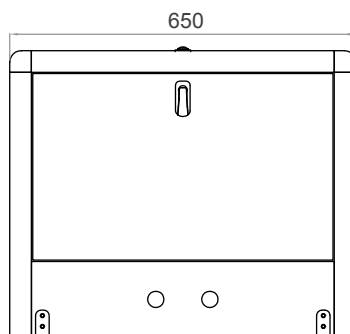
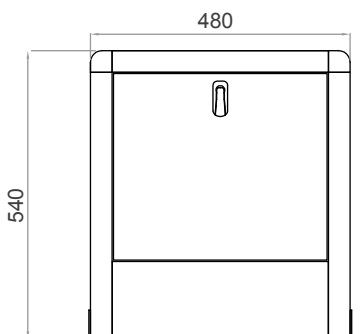
Synchronous, single bearing, brushless 2 poles, single phase, sea water cooled, insulation class "H".

Connections

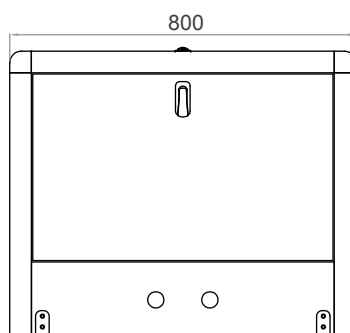
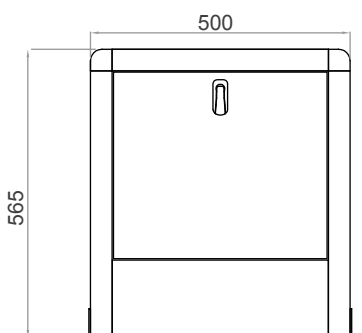
Model	EM320	EM600	EM900
Minimum power cable section	3G2,5	3G2,5	3G6
Maximum fuel pump prevalence	0.50	0.50	0.50
Fuel supply line	Ø 8 mm	Ø 8 mm	Ø 8 mm
Fuel supply refusal line	Ø 6 mm	Ø 6 mm	Ø 6 mm
Oil drain cap	3/8 NPT	3/8 NPT	3/8 NPT
Maximum sea water pump prevalence	1.00	1.22	1.22
Sea water supply line	Ø 10 mm	Ø 10 mm	Ø 20 mm
Humid outlet pipe line	Ø 40 mm	Ø 40 mm	Ø 40 mm
Max. exhaust return pressure outlet	500	500	500
Nominal battery voltage	12 V	12 V	12 V
Min CCA rating	400 A; 50 Ah	400 A; 50 Ah	540 A; 70 Ah
Minimum battery cable section	35 mm	35 mm	50 mm



EM320 - 3C0024705B



EM600 - 3C0024706D



EM900 - 3C0024707F

EML SERIES 1500 RPM - MEDIUM POWER

Features

- Connection on one side
- Electronic management
- Easy maintenance
- Local and remote command
- Reduced dimensions and noise level



Model - Part No.	EML740 - 3C0024708H	EML970 - 3C0024709K	EML1200 - 3C0025421S
Max power	7.40 kVA/kW	9.70 kVA/kW	12.00 kVA/kW
Phase	Single phase	Single phase	Single phase
Current	32.00 A	42.00 A	52.00 A
Voltage	230 V*	230 V*	230 V*
Frequency	50 Hz*	50 Hz*	50 Hz*
Start up	Electric	Electric	Electric
Alternator cooling system	Air	Air	Air
Dimensions open version	800x490x620 mm	900x490x625 mm	910x550x680 mm
Weight open version	265 kg	292 kg	362 kg
Dimensions soundproof version	910x540x670 mm	1010x540x675 mm	1020x600x730 mm
Weight soundproof version	275 kg	302 kg	372 kg
Noise level @ 7 meters	54 dB (A)	54 dB (A)	54 dB (A)
Air consumption	0.71 m³/min	0.96 m³/min	1.21 m³/min

Engine

Model	KUBOTA D1105-BG	KUBOTA V1505-BG	KUBOTA D1703-BG
Cooling system	With heat exchanger	With heat exchanger	With heat exchanger
RPM	1500	1500	1500
Number of cylinders	3	4	3
Displacement	1124 cc	1499 cc	1647 cc
Bore	78 mm	78 mm	87 mm
Stroke	78 mm	78 mm	92 mm
Compression ratio: 1	22.00	22.00	23.00
Oil cap capacity	4.00 l	4.30 l	7.00 l
Refrigerant fluid flow	15.90 l/min	15.90 l/min	37.90 l/min
Sea water pump flow	18.90 l/min	18.90 l/min	37.90 l/min
Heat discharge	45.00 kcal/min	53.00 kcal/min	72.00 kcal/min
Maximum installation angle	10° continuous / 22.5° intermittent		
Speed governor	Mechanical	Mechanical	Electronic
Consumption at half load	1.50 l/h	1.90 l/h	2.70 l/h
Consumption at full load	2.70 l/h	3.40 l/h	4.20 l/h
Recommended fuel	No. 2D Diesel Fuel:Spec EN 590 - ASTM D975		

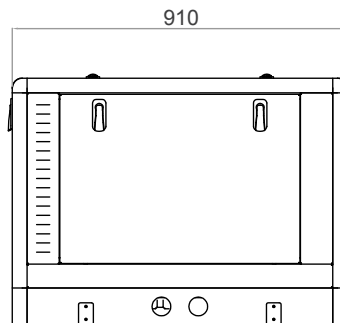
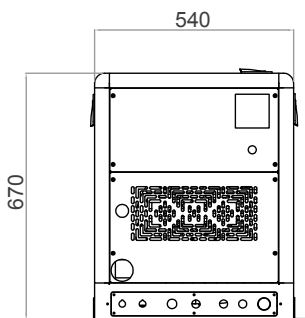
* 240/120V - 60Hz models are available on request

Alternator

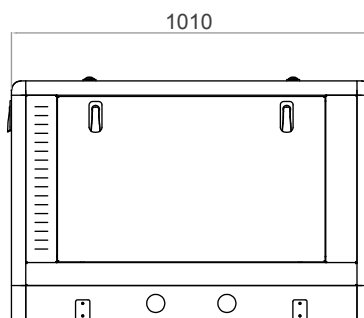
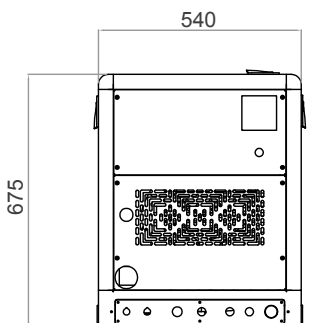
Synchronous, single bearing, brushless 2 poles, single phase, air cooled, insulation class "H".

Connections

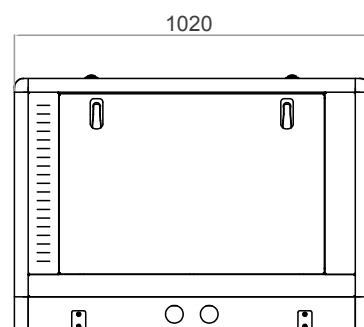
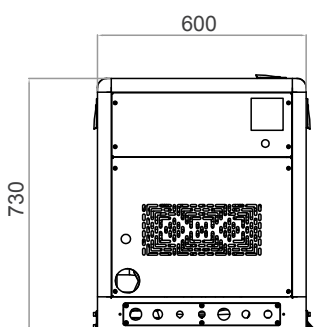
Model	EML740	EML970	EML1200
Minimum power cable section	3G6	3G10	3G10
Maximum fuel pump prevalence	0.80	0.80	0.80
Fuel supply line	Ø 8 mm	Ø 8 mm	Ø 8 mm
Fuel supply refusal line	Ø 6 mm	Ø 6 mm	Ø 6 mm
Oil drain cap	3/8 NPT	3/8 NPT	3/8 NPT
Maximum sea water pump prevalence	1.22	1.22	1.22
Sea water supply line	Ø 25 mm	Ø 25 mm	Ø 25 mm
Humid outlet pipe line	Ø 50 mm	Ø 50 mm	Ø 60 mm
Max. exhaust return pressure outlet	500	500	500
Nominal battery voltage	12 V	12 V	12 V
Min CCA rating	540 A; 70 Ah	540 A; 70 Ah	670 A; 100 Ah
Minimum battery cable section	50 mm	50 mm	50 mm



EML740 - 3C0024708H



EML970 - 3C0024709K



EML1200 - 3C0025421S

EML SERIES 1500 RPM - HIGH POWER

Features

- Connection on one side
- Electronic management
- Easy maintenance
- Local and remote command
- Reduced dimensions and noise level



Model - Part No.	EML1500 - 3C0026241V	EML1800 - 3C0025422U	EML2500 - 3C0025423W	EML3500 - 3C0025425A
Max power	15.00 kVA/kW	18.00 kVA/kW	25.00 kVA/kW	35.00 kVA/kW
Phase	Single phase	Single phase	Single phase	Single phase
Current	65.00 A	78.00 A	109.00 A	150.00 A
Voltage	230 V*	230 V*	230 V*	230 V*
Frequency	50 Hz*	50 Hz*	50 Hz*	50 Hz*
Start up	Electric	Electric	Electric	Electric
Alternator cooling system	Air	Air	Air	Air
Dimensions open version	1010x550x680 mm	1010x550x680 mm	1460x650x850 mm	1460x680x850 mm
Weight open version	382 kg	385 kg	647 kg	685 kg
Dimensions soundproof version	1130x600x735 mm	1130x600x735 mm	1430x670x860 mm	1600x700x900 mm
Weight soundproof version	397 kg	400 kg	662 kg	700 kg
Noise level @ 7 meters	54 dB (A)	54 dB (A)	54 dB (A)	54 dB (A)
Air consumption	-	1.43 m ³ /min	2.20 m ³ /min	2.20 m ³ /min

Engine

Model	YANMAR 4TNV88-GYM	KUBOTA V2403-BG	KUBOTA V3300-BG	KUBOTA V3800-BG
Cooling system	With heat exchanger	With heat exchanger	With heat exchanger	With heat exchanger
RPM	1500	1500	1500	1500
Number of cylinders	4	4	4	4
Displacement	1995 cc	2434 cc	3318 cc	3769 cc
Bore	84 mm	87 mm	98 mm	100 mm
Stroke	90 mm	102 mm	110 mm	120 mm
Compression ratio: 1	19.1	23.20	22.60	22.60
Oil cap capacity	7.4 l	8.00 l	13.20 l	13.20 l
Sea water pump flow	-	26.50 l/min	49.50 l/min	49.50 l/min
Heat discharge	-	88.00 kcal/min	111.00 kcal/min	111.00 kcal/min
Maximum installation angle	10° continuous/22.5° intermittent	10° continuous/22.5° intermittent	10° continuous/22.5° intermittent	10° continuous/22.5° intermittent
Speed governor	Electronic	Electronic	Electronic	Electronic
Consumption at half load	-	3.40 l/h	5.60 l/h	5.70 l/h
Consumption at full load	4.5 l/h	6.10 l/h	8.00 l/h	9.10 l/h
Recommended fuel	No. 2D Diesel Fuel:Spec EN 590 - ASTM D975			

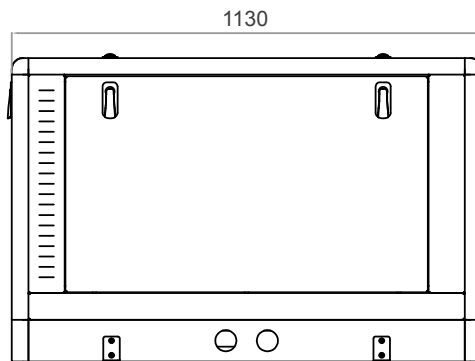
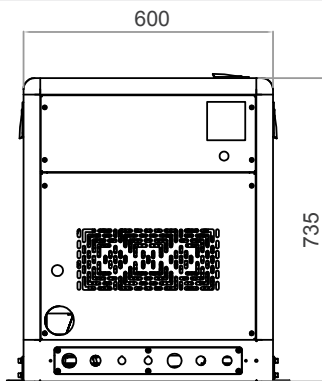
* 240/120V - 60Hz models are available on request

Alternator

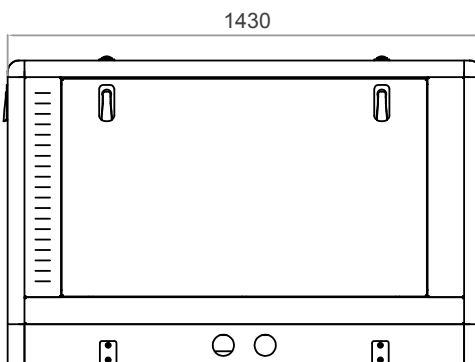
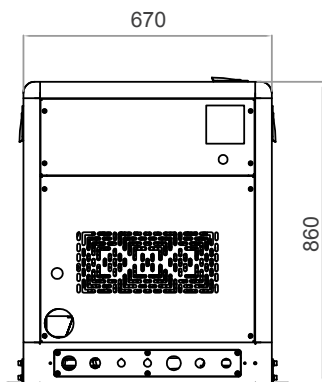
Synchronous, single bearing, brushless 2 poles, single phase, air cooled, insulation class "H".

Connections

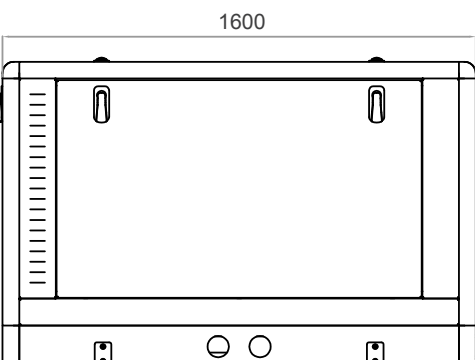
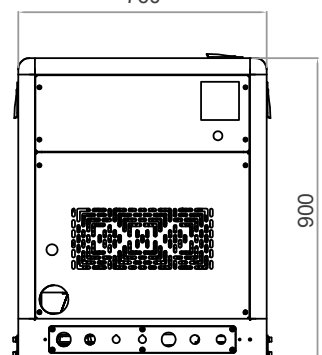
Model	EML1500	EML1800	EML2500	EML3500
Minimum power cable section	25 mmq	25 mmq	25 mmq	25 mmq
Maximum fuel pump prevalence	0.80	0.80	0.80	0.80
Fuel supply line	Ø 8 mm	Ø 8 mm	Ø 8 mm	Ø 8 mm
Fuel supply refusal line	Ø 6 mm	Ø 6 mm	Ø 6 mm	Ø 6 mm
Oil drain cap	3/8 NPT	3/8 NPT	3/8 NPT	3/8 NPT
Maximum sea water pump prevalence	1.22	1.22	1.22	1.22
Sea water supply line	Ø 25 mm	Ø 25 mm	Ø 25 mm	Ø 25 mm
Humid outlet pipe line	Ø 60 mm	Ø 60 mm	Ø 76 mm	Ø 76 mm
Max. exhaust return pressure outlet	500	500	500	500
Nominal battery voltage	12 V	12 V	12 V	12 V
Min CCA rating	670 A; 100 Ah	670 A; 100 Ah	670 A; 100 Ah	670 A; 100 Ah
Minimum battery cable section	50 mm	50 mm	50 mm	50 mm



EML1500 - 3C0026241V
EML1800 - 3C0025422U



EML2500 - 3C0025423W



EML3500 - 3C0025425A

Features

- Connection on one side
- Electronic management
- Easy maintenance
- Local and remote command
- Reduced dimensions and noise level



Model - Part No.	ETL1500 - 3C0025426C	ETL2590 - 3C0024713A	ETL3000 - 3C0024714C
Max power	15.00 kVA	25.00 kVA	30.00 kVA
Phase	Three Phase	Three Phase	Three Phase
Current	22.00 A	34.00 A	45.00 A
Voltage	400/230 V + N*	400/230 V + N*	400/230 V + N*
Frequency	50 Hz*	50 Hz*	50 Hz*
Start up	Electric	Electric	Electric
Alternator cooling system	Air	Air	Air
Dimensions open version	950x550x680 mm	1010x550x680 mm	1460x650x850 mm
Weight open version	362 kg	433 kg	652 kg
Dimensions soundproof version	1020x600x730 mm	1130x600x735 mm	1430x670x860 mm
Weight soundproof version	372 kg	448 kg	670 kg
Noise level @ 7 meters	54 dB (A)	54 dB (A)	54 dB (A)
Air consumption	1.21 m ³ /min	1.43 m ³ /min	2.20 m ³ /min

Engine

Model	KUBOTA D1703-BG	KUBOTA V2403-BG	KUBOTA V3300-BG
Cooling system	With heat exchanger	With heat exchanger	With heat exchanger
RPM	1500	1500	1500
Number of cylinders	3	4	4
Displacement	1647 cc	2434 cc	3318 cc
Bore	87 mm	87 mm	98 mm
Stroke	92 mm	102 mm	110 mm
Compression ratio: 1	23.00	23.20	22.60
Oil cap capacity	7.00 l	8.00 l	13.20 l
Refrigerant fluid flow	37.90 l/min	37.90 l/min	43.50 l/min
Sea water pump flow	37.90 l/min	26.50 l/min	49.50 l/min
Heat discharge	72.00 kcal/min	88.00 kcal/min	111.00 kcal/min
Maximum installation angle	10° continuous / 22.5° intermittent		
Speed governor	Mechanical	Electronic	Electronic
Consumption at half load	2.70 l/h	3.40 l/h	5.60 l/h
Consumption at full load	4.20 l/h	6.10 l/h	8.00 l/h
Recommended fuel	No. 2D Diesel Fuel:Spec EN 590 - ASTM D975		

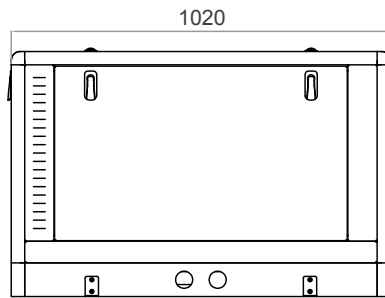
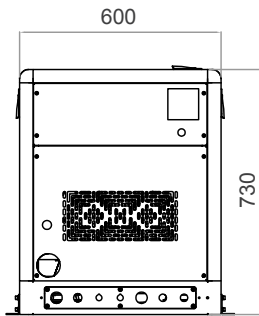
* 440/254V - 60Hz models are available on request

Alternator

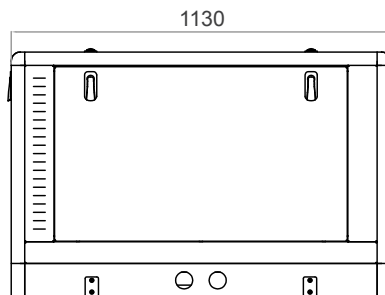
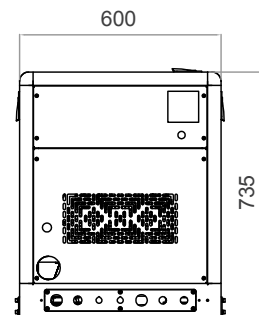
Synchronous, single bearing, brushless 2 poles, three phase, air cooled, insulation class “H”.

Connections

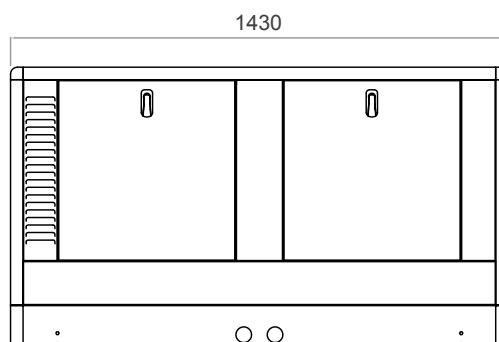
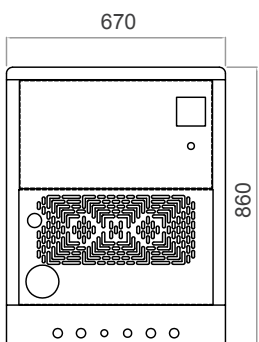
Model	ETL1500	ETL2590	ETL3000
Minimum power cable section	3G10	5G6	5G10
Maximum fuel pump prevalence	0.80	0.80	0.80
Fuel supply line	Ø 8 mm	Ø 8 mm	Ø 8 mm
Fuel supply refusal line	Ø 6 mm	Ø 6 mm	Ø 6 mm
Oil drain cap	3/8 NPT	3/8 NPT	3/8 NPT
Maximum sea water pump prevalence	1.22	1.22	1.22
Sea water supply line	Ø 25 mm	Ø 25 mm	Ø 32 mm
Humid outlet pipe line	Ø 60 mm	Ø 60 mm	Ø 76 mm
Max. exhaust return pressure outlet	500	500	500
Nominal battery voltage	12 V	12 V	12 V
Min CCA rating	670 A; 100 Ah	670 A; 100 Ah	670 A; 100 Ah
Minimum battery cable section	50 mm	50 mm	50 mm



ETL1500 - 3C0025426C



ETL2590 - 3C0024713A



ETL3000 - 3C0024714C

Features

- Connection on one side
- Electronic management
- Easy maintenance
- Local and remote command
- Reduced dimensions and noise level



Model - Part No.	ETL4700 - 3C0025428G
Max power	47.00 kVA
Phase	Three Phase
Current	65.00 A
Voltage	400/230 V + N*
Frequency	50 Hz*
Start up	Electric
Alternator cooling system	Air
Dimensions open version	1460x680x850 mm
Weight open version	-
Dimensions soundproof version	1600x700x900 mm
Weight soundproof version	700 kg
Noise level @ 7 meters	54 dB (A)
Air consumption	2.20 m ³ /min

Engine

Model	KUBOTA V3800-T-BG2
Cooling system	With heat exchanger
RPM	1500
Number of cylinders	4
Displacement	3769 cc
Bore	100 mm
Stroke	120 mm
Compression ratio: 1	22.60
Oil cap capacity	13.20 l
Refrigerant fluid flow	43.50 l/min
Sea water pump flow	49.50 l/min
Heat discharge	110.00 kcal/min
Maximum installation angle	10° continuous / 22.5° intermittent
Speed governor	Electronic
Consumption at half load	5.70 l/h
Consumption at full load	9.10 l/h
Recommended fuel	No. 2D Diesel Fuel:Spec EN 590 - ASTM D975

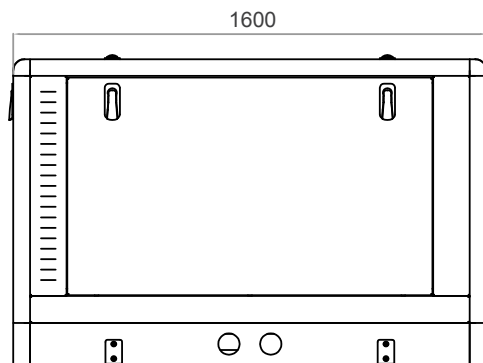
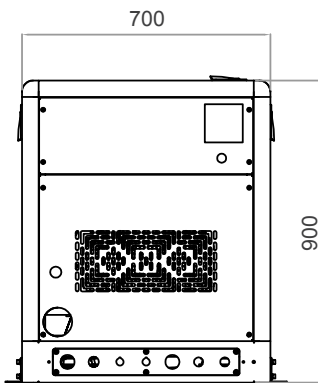
* 440/254V - 60Hz models are available on request

Alternator

Synchronous, single bearing, brushless 2 poles, three phase, air cooled, insulation class “H”.

Connections

Model	ETL4700
Minimum power cable section	5G10
Maximum fuel pump prevalence	0.80
Fuel supply line	Ø 8 mm
Fuel supply refusal line	Ø 6 mm
Oil drain cap	3/8 NPT
Maximum sea water pump prevalence	1.22
Sea water supply line	Ø 32 mm
Humid outlet pipe line	Ø 76 mm
Max. exhaust return pressure outlet	500
Nominal battery voltage	12 V
Min CCA rating	670 A; 100 Ah
Minimum battery cable section	50 mm



ETL4700 - 3C0025428G

Features

- Connection on one side
- Electronic management
- Easy maintenance
- Local and remote command
- Reduced dimensions and noise level

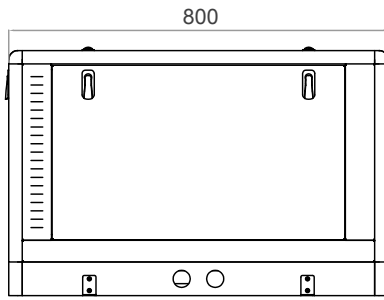
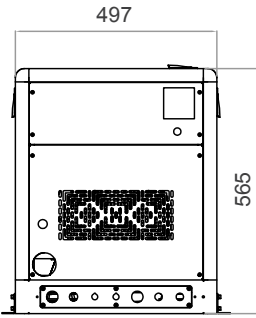


Model - Part No.	EMV10 - 3C00000017	EMV15 - 3C00000018	EMV20 - 3C00000019
Max power	10.00 kw	15.00 kw	20.00 kw
Phase	Three Phase	Three Phase	Three Phase
Current	43.00 A	65.00 A	87.00 A
Voltage	360 V	360 V	360 V
Frequency	50 Hz	50 Hz	50 Hz
Start up	Electric	Electric	Electric
Alternator cooling system	Water	Water	Water
Dimensions open version	-	-	-
Weight open version	-	-	-
Dimensions soundproof version	800x497x565 mm	1010x540x675 mm	1020x600x730 mm
Weight soundproof version	300 kg	305 kg	310 kg
Noise level @ 7 meters	54 dB (A)	54 dB (A)	54 dB (A)
Air consumption	-	-	-

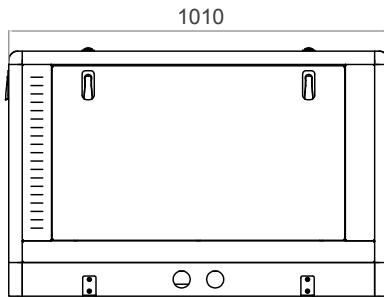
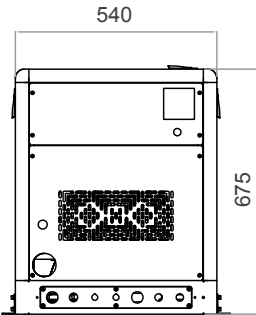
Engine

Model	KUBOTA- D722	KUBOTA V1105	YANMAR 4TNV88
Cooling system	Water	Water	Water
RPM	2100 - 3200	1550 - 2300	1850 - 2400
Number of cylinders	3	4	4
Displacement	719 cc	1499 cc	2190 cc
Bore	68 mm	78 mm	88 mm
Stroke	67 mm	78 mm	90 mm
Compression ratio: 1	23.5:1	22:1	19.10:1
Oil cap capacity	3.1 l	4.3 l	6.7 l
Refrigerant fluid flow	-	-	-
Sea water pump flow	-	-	-
Heat discharge	-	-	-
Maximum installation angle	10° continuous / 22.5° intermittent		
Speed governor	Electronic	Electronic	Electronic
Consumption at half load	-	-	-
Consumption at full load	4 l/h	3.4 l/h	7.1 l/h
Recommended fuel	No. 2D Diesel Fuel:Spec EN 590 - ASTM D975		

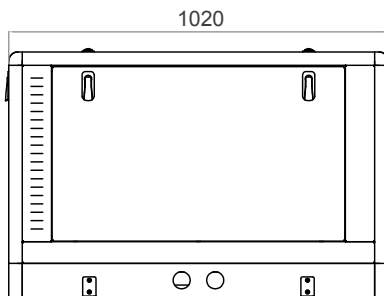
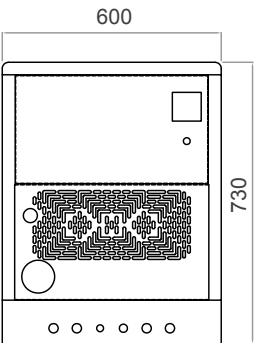
* 440/254V - 60Hz models are available on request



EMV10 - 3C00000017



EMV15 - 3C00000018



EMV20 - 3C00000018



PRODUCT RANGE CHART

Model	EM320	EM600	EM900	EML740	EML970	EML1200
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Features

Maximum power (kVA/kW)	3.2/3.2	6.0/6.0	9.0/9.0	7.4/7.4	9.7/9.7	12.0/12.0
Phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Voltage (V)	230	230	230	230	230	230
Frequency (Hz)	50	50	50	50	50	50
Alternator cooling system	Sea water	Sea water	Sea water	Air	Air	Air
Dimensions (mm)	580x425x520	650x480x540	800x500x565	910x540x670	1010x540x675	1020x600x730
Weight (kg)	99	152	216	275	302	372

Engine features

Brand	Yanmar	Kubota	Kubota	Kubota	Kubota	Kubota
Stroke cycle (n°)	4	4	4	4	4	4
Fuel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Injection	Direct	Direct	Direct	Indirect	Indirect	Indirect
Model	L70N	Z482	D722	D1105-BG	V1505-BG	D1703-BG
Engine cooling system	Sea water/ Air	Double cooling system with heat exchanger sea water-fresh water				
RPM	3000	3000	3000	1500	1500	1500
Number of cylinders	1	2	3	3	4	3
Displacement (cm³)	320	479	719	1124	1499	1647
Speed regulator	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Electronic
Fuel consumption (l/h)	0,8 (2/4) 1,3 (4/4)	1,6 (2/4) 2,7 (4/4)	1,9 (2/4) 3,6 (4/4)	1,5 (2/4) 2,7 (4/4)	1,9 (2/4) 3,4 (4/4)	2,7 (2/4) 4,2 (4/4)

Starting system

Nominal battery voltage (volts)	12	12	12	12	12	12
SAE @ 32°F 0°C	400 amps 50 Ah	400 amps 50 Ah	540 amps 70 Ah	540 amps 70 Ah	540 amps 70 Ah	670 amps 100 Ah
Minimum battery cable section (mm²)	35	50	50	50	50	50

EML1500	EML1800	EML2500	EML3500	ETL1500	ETL2590	ETL3000	ETL4700
15.0/15.0	18.0/18.0	25.0/25.0	35.0/35.0	15.00/12.0	25.0/20.0	30.0/24.0	47.0/37.6
Single phase	Single phase	Single phase	Single phase	Three phase	Three phase	Three phase	Three phase
230	230	230	230	400/230+N	400/230+N	400/230+N	400/230+N
50	50	50	50	50	50	50	50
Air	Air	Air	Air	Air	Air	Air	Air
1130x600x735	1130x600x735	1430x670x860	1600x700x900	1020x600x730	1130x600x735	1430x670x860	1600x700x900
397	400	662	700	372	448	670	700

Yanmar	Kubota	Kubota	Kubota	Kubota	Kubota	Kubota	Kubota
4	4	4	4	4	4	4	4
Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Indirect	Indirect	Indirect	Indirect	Indirect	Indirect	Indirect	Indirect
4TNV88-GYM	V2403-BG	V3300-BG	V3800-BG	D1703-BG	V2403-BG	V3300-BG	V3800-BG

Double cooling system with heat exchanger sea water-fresh water

1500	1500	1500	1500	1500	1500	1500	1500
4	4	4	4	3	4	4	4
1995	2434	3318	3769	1647	2434	3318	3769
Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
- 4,5 (4/4)	3 (2/4) 5,3 (4/4)	5,6 (2/4) 8,0 (4/4)	5,7 (2/4) 2,1 (4/4)	2,7 (2/4) 4,2 (4/4)	3,4 (2/4) 6,1 (4/4)	5,6 (2/4) 8,0 (4/4)	5,7 (2/4) 9,1 (4/4)

12	12	12	12	12	12	12	12
670 amps 100 Ah	670 amps 100 Ah	670 amps 100 Ah	670 amps 100 Ah	670 amps 100 Ah	670 amps 100 Ah	670 amps 100 Ah	670 amps 100 Ah
50	50	50	50	50	50	50	50

MODEL	DESCRIPTION	GEN	S/W Kit	Exhaust Kit	Separator	Siphon breaker
EM320 - 3,2 kW	3,2 kW, 230 V, soundproofed	3C0024705B	3C0022629B*	1C0022630K	3C0022631M	3C0022657G
EM600 - 6,0 kW	6,0 kW, 230 V, soundproofed	3C0024706D	3C0022629B*	1C0022630K	3C0022631M	3C0022657G
EM900 - 9,0 kW	9,0 kW, 230 V, soundproofed	3C0024707F	3C0022629B*	1C0022630K	3C0022631M	3C0022657G

*Until stocks last, then code 25675A

EML740 - 7,4 kW	7,4 kW, 230 V, soundproofed	3C0024708H	3C0022663B**	1C0022665F	3C0022631M	3C0022657G
EML970 - 9,7 kW	9,7 kW, 230 V, soundproofed	3C0024709K	3C0022663B**	1C0022665F	3C0022631M	3C0022657G
EML1200 - 12,0 kW	12,0 kW, 230 V, soundproofed	3C0025421S	3C0022663B**	3C0022666H	3C0066711H	3C0022657G
EML1500 - 15,0 kW	15,0 kW, 230 V, soundproofed	3C0026241V	3C0022663B**	3C0022666H	3C0066711H	3C0022657G
EML1800 - 18,0 kW	18,0 kW, 230 V, soundproofed	3C0025422U	3C0022663B**	3C0022666H	3C0066711H	3C0022657G
EML2500 - 25,0 kW	25,0 kW, 230 V, soundproofed	3C0025423W	3C0022664D	3C0022667K	3C0066884S	3C0022657G
EML3500 - 35,0 kW	35,0 kW, 230 V, soundproofed	3C0025425A	3C0022664D	3C0022667K	3C0066884S	3C0022657G

ETL1500 - 15,0 kVA	15,0 kVA, 400/230 V+N, soundproofed	3C0025426C	3C0022663B**	3C0022666H	3C0066711H	3C0022657G
ETL2590 - 25,0 kVA	25,0 kVA, 400/230 V+N, soundproofed	3C0024713A	3C0022663B**	3C0022666H	3C0066711H	3C0022657G
ETL3000 - 30,0 kVA	30,0 kVA, 400/230 V+N, soundproofed	3C0024714C	3C0022664D	3C0022667K	3C0066884S	3C0022657G
ETL4700 - 47,0 kVA	47,0 kVA, 400/230 V+N, soundproofed	3C0025428G	3C0022664D	3C0022667K	3C0066884S	3C0022657G

**Until stocks last, then code 25676C

Kit A/M (Sea water kit): include hose holder, nipples, ball valve, through hull and water filter

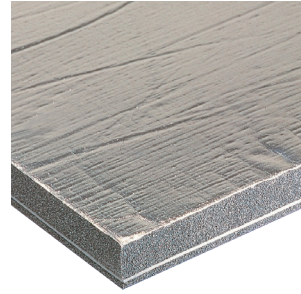
Exhaust Kit: include silenced muffler, reinforced ss clamps and exhaust hose



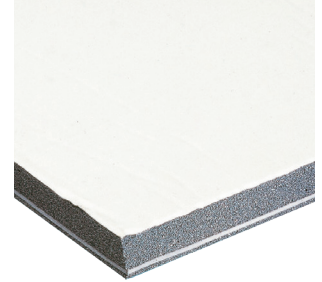
Maintenance kits also available for all the genset models: include air filter, fuel filter and s.w pump impeller for EM320 model, oil filter, fuel filter, belt, s.w. pump impeller and zinc anodes for all the other models



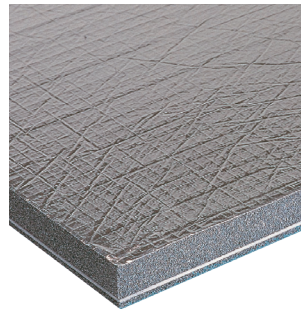
- **The absorption layer**
A thick layer of fire zero rated foam which soaks up noise and stops it bouncing around the engine space.
- **The transmission layer**
A high density barrier provides the highest possible mass and gives the best noise reduction. The damping layer weighs 5kgs per square meter – more than the lead sheet used in older materials.
- **The isolation layer**
This thin layer of foam has a crucial function: It acts like the gap in double glazing and stops the noise which hits the transmission layer being carried through to the bulkhead – just like the gap in double glazing.
The multi-layer construction used offers the best possible acoustic result in a thicknesses which can be accommodated in the tightest engine space, beating simpler materials many times as thick.



Maritex



Sealglass



Re-inforced Silver Polyester

PROTECTIVE SKIN

- **Maritex**
An immensely tough fibreglass cloth with a sealed metallised skin so it cannot absorb oil. It won't tear or fray. It looks heavy duty, and it is fire zero rated. Maritex is simply the best facing of the range. Maritex is fire zero rated to BS 476 parts 6 and 7.
- **Sealglass**
A tough off-white glass cloth, sealed against oil. The cloth is extremely tough and will not tear. The material meets the ISO 9094 fire requirements of the EU Recreational Craft Directive.
- **Re-inforced Silver Polyester**
This facing meets the requirements of the Recreational Craft Directive. It provides a seal to keep oil out. You can pierce it, but it has a reinforcing layer behind it. It will burn, but once laminated in place it meets the ISO 9094 fire requirements of the EU Recreational Craft Directive. In a fire the facing will burn, but not the foam behind it.



SCAMO EXHAUST HOSE

Hardwall corrugated (CAJ) and smooth cover (NAJ) rubber hose.
Extremely flexible. Marine exhaust hose suitable also for cooling the heat exchangers on pleasure boats up to 24 m.

Standards **SAE J 2006:2003 R2 - ISO 13363:2004 Type 2 Class B.**

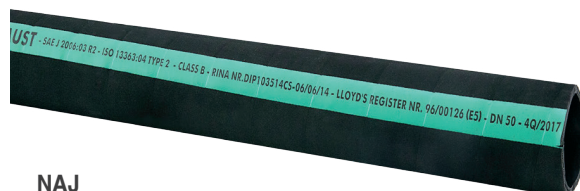
Approved: **LLOYD'S REGISTER N. 96/00126 - R.I.N.A N. DIP 075110CS**

• **TEMPERATURE RANGE: -30°C +100°C**

Hoses available with internal diameter 40/50/60/90 mm, in 20 m coil (in case of different lengths requested please contact our sales department)



CAJ



NAJ

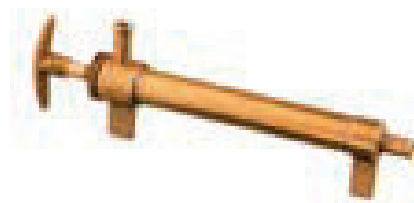
ACCESSORIES FOR THE INSTALLATION



Seawater filtering kit



Diesel prefilter with water separator



Oil extraction pump



Halyard® VTR Silencers, available on request



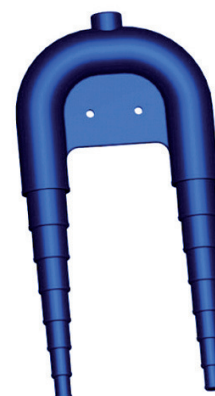
Halyard® Thermoplastic water/gas separator, available on request



Diesel water separator



Electrical fuel pump



Siphon breaker



Eneon marine generators are a safe choice. Eneon's reliability is also guaranteed by an excellent technical assistance service with pre- and after-sales support, directed from our offices in Italy and the United States and provided worldwide through our official network of distributors, workshops and affiliated centers, capable of providing spare parts and immediate assistance. For further information please contact our Service Department at the email address service@ultraflexgroup.it





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ULTRAFLEX GROUP

