

CATALOG 2017

PUMPS
SIGNAL HORNS



MATE
USA





ABOUT US

MATE GROUP and MATE USA are the brands resulted from the cooperation between **MARCO** and **TESSILMARE** and aims at achieving a leading role in the worldwide marine sector.

The international experience of both Italian manufacturers is the foundation on which **MATE GROUP** will be building its ambitious distribution plan.

MATE GROUP has been structured to meet the expectations and stimuli of the contemporary global market. New scenarios have been found to reach such goal, where technological solutions and computer means of communication can be integrated and well-balanced.

MATE GROUP stands by its clients' side as a skilled and experienced partner in the various market trends.



PUMPS SELECTION GUIDE

Type	12V	24V	220V	110V	Flow Rate gpm	Pressure psi	Fresh Water	Salt Water	Greywater	Diesel	Oil	Submersible	Automatic	High Pressure	Electronic	Integrated Switch	Reversible	Portable Kit	Page
UP2000	•	•			33.3	5.8	•	•				•							4
UP3700		•			61.6	7.3	•	•				•							4
UP1-B	•	•					•	•	•								•		4
UP1-J	•	•			7.4	14.5	•	•	•								•		5
UP1-JS	•	•			7.4	14.5	•	•	•						•				5
UP1-JR	•	•			7.4	14.5	•	•	•						•		•		5
UP1-N	•	•			9.2	17.4	•	•	•								•		5
UP1-M	•	•			11.9	21.8	•	•	•								•		5
UP2/E	•	•			2.6	29	•	•				•		•					6
UP3/E	•	•			4	36.3	•	•				•		•					6
UP6/E	•	•			6.9	36.3	•	•				•		•					6
UP12/E	•	•			9.5	43.5	•	•				•		•					6
UP14/E	•	•			12.2	43.5	•	•				•		•					6
DP3/E	•	•			3.7	43	•	•				•	•	•					8
DP9/E	•	•			3.2	58	•	•				•	•	•					8
DP12/E	•	•			4	72.5	•	•				•	•	•					8
UP2	•	•			2.6	21.8				•							•		9
UP3	•	•			4	29				•							•		9
UP3-S	•	•			4	29				•					•				9
UP3-R	•	•			4	29				•					•		•		9
UP6	•	•			6.9	29				•							•		9
UP12	•	•			9.5	36.3				•							•		9
UP14	•	•			12.2	29				•							•		9
UP2/E-BR	•	•			2.6	29				•	•	•		•					10
UP3/E-BR	•	•			4	36				•	•	•		•					10
UP6/E-BR	•	•			6.9	36				•	•	•		•					10
UP9/E-BR	•	•			3.2	65.3				•	•	•		•					10
UP14/E-BR	•	•			12	29				•	•	•		•					10
UP1/AC			•	•	9.5	14.5	•	•	•										12
UP3/AC			•	•	3.26	87				•			•						12
UP6/AC			•	•	9	72.5				•			•						12
UP14/AC			•	•	13.9	58				•			•						12
VP45/AC			•	•	9.2	17.4				•									12
VP45	•	•			11.9	17.4				•								•	13
VP45-N	•	•			11.9	17.4				•									13
VP45-S	•	•			11.9	17.4				•					•				13
VP45-K	•	•			11.9	17.4				•								•	13
UP2/OIL	•	•			0.9	-					•						•		14
UP3/OIL	•	•			1.5	-					•						•		14
UP3/OIL-R	•	•			1.5	-					•				•		•		14
UP6/OIL	•	•			2.1	-					•						•		14
UP12/OIL	•	•			4	-					•						•		14
UP14/OIL	•	•			4.8	29					•						•		14
UP3-CK	•	•			4	29				•							•	•	15
OCK1	•	•			1.5	-					•						•	•	15
OCK1-R	•	•			1.5	-					•				•		•	•	15
OCK1-E	•	•			2.6	-				•	•			•			•	•	15
UP3-RK	•	•			4	29				•				•			•		16
UP6-RK	•	•			6.9	29				•				•			•		16
OCS3/E	•	•			2.6	-				•	•			•			•		17
OCS5/E	•	•			2.6	-				•	•			•			•		17
OCS6/E	•	•			4	-				•	•			•			•		17
OCS9/E	•	•	•	•	4	-				•	•			•			•		17

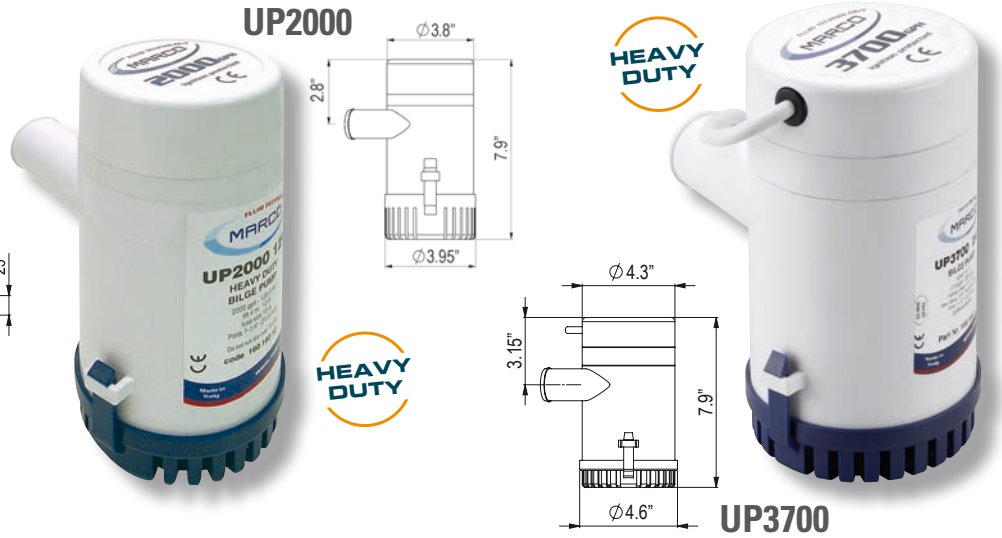
BILGE AND WATER TRANSFER



Completely submersible bilge pumps. Compact design with ABS material housing, corrosion resistant. ISO 8849 and ISO 8846.



AS2 Automatic float switch for bilge pumps.



TYPE	PART NUMBER	VOLTS	LIFT	PORTS	FLOW RATE	AMPS	FUSE	DIMENSIONS	Pcs. x carton
UP2000	M160-160-12	12	13 ft.	1-1/4"	2000 gph	12	25A	7.9" x Ø3.8"	6
	M160-160-13	24	13 ft.	1-1/4"	2000 gph	6	15A	7.9" x Ø3.8"	6
UP3700	M160-180-13	24	16 ft.	1 - 1/2"	3700 gph	6	10A	7.9" x Ø4.3"	1

TYPE	PART NUMBER	VOLTS	AMPS	OFF / ON	WIRE	DIMENSIONS	Pcs. x carton
AS2	M161-002-20	12/24	max. 10	1" / 2.2"	33.5"	4.4" x 3.2" x 2.4"	24

BALLAST PUMP

Self-priming electric impeller pump for fast transfer of fresh or salt water. Fitted with water proof cable guide and internal brush holder with EMI filter. ISO 8846 and ISO 8849. Compact design, high flow rate. Ideal for ballast application.

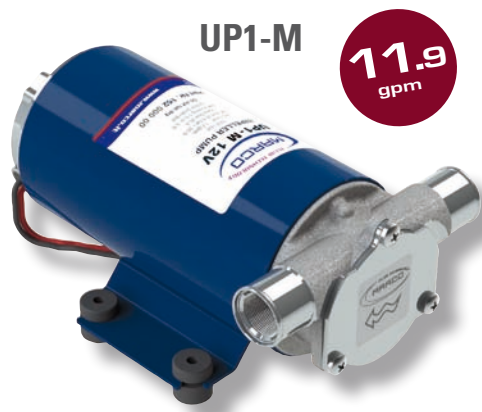


TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PRESSURE	FLOW RATE	AMPS	FUSE	PORTS	THREAD
UP1-B	M162-003-12	12	5 ft	21.8 psi	11 gpm	12	20 amps	1"	1/2" BSP

BILGE AND SALT WATER PUMPS



Self-priming electric pump with flexible nitrile impeller. Now available in 3 different flow rates: 7.4, 9.2 and 11.9 gpm. Fitted with water proof cable guide and internal brush holder with EMI filter. ISO 8846 and ISO 8849. Ideal for bilge, waste water and ballast tank on any type of boat.



TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PRESSURE	FLOW RATE	AMPS	FUSE	PORTS	THREAD
UP1-N	M162-002-12	12	5 ft	17.4 psi	9.2 gpm	10	20 amps	1"	1/2" BSP
	M162-002-13	24	5 ft	17.4 psi	9.2 gpm	5	15 amps	1"	1/2" BSP
UP1-M	M162-006-12	12	5 ft	21.8 psi	11.9 gpm	14	20 amps	1"	1/2" BSP
	M162-006-13	24	5 ft	21.8 psi	11.9 gpm	7	15 amps	1"	1/2" BSP



UP1-JS
 INTEGRATED ON/OFF SWITCH



UP1-JR
 INTEGRATED REVERSING SWITCH

TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PRESSURE	FLOW RATE	AMPS	FUSE	PORTS	THREAD
UP1-J	M162-004-12	12	5 ft	14.5 psi	7.4 gpm	8	10 amps	3/4"	3/8" BSP
	M162-004-13	24	5 ft	14.5 psi	7.4 gpm	4	7.5 amps	3/4"	3/8" BSP
UP1-JS	M162-010-12	12	5 ft	14.5 psi	7.4 gpm	8	10 amps	3/4"	3/8" BSP
	M162-010-13	24	5 ft	14.5 psi	7.4 gpm	4	7.5 amps	3/4"	3/8" BSP
UP1-JR	M162-011-12	12	5 ft	14.5 psi	7.4 gpm	8	10 amps	3/4"	3/8" BSP
	M162-011-13	24	5 ft	14.5 psi	7.4 gpm	4	7.5 amps	3/4"	3/8" BSP

ELECTRONIC WATER SYSTEM PUMPS

VARIABLE SPEED



Self-priming automatic electric pumps with helical PTFE gears, integrated check valve and electronic control. Nickel-plated brass body and stainless steel shaft. Control panel available.

Main applications: fresh water pressure systems and shower kits on boats, sailing boats and campers. Available also in 13.8 gpm, 17.5 gpm and 21.1 gpm.

Advantages:

- Constant control of pressure, current and voltage.
- The motor gradually runs to reach the required flow rate.
- There is no need for an accumulator tank.
- The electronic system tries to re-start the motor 4 times.
- Green/Red LED signals pump functions.
- Reduction of noise, current absorption and mechanical wearing.
- The pump is protected against short circuits and overloads.
- There is no need for a fuse.
- Blue flashing LED indicates empty tank.
- **NEW!** Integrated RJ11 cable for PCS connection



UP2/E



UP3/E



UP6/E



UP12/E



UP14/E



TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PRESSURE	FLOW RATE	FUSE	PORTS (male)
UP2/E	M164-660-15	12/24	3.3 ft	29 psi	2.6 gpm	7.5 amps	3/8" NPT
UP3/E	M164-602-15	12/24	4.9 ft	36 psi	4 gpm	15 amps	3/8" NPT
UP6/E	M164-622-15	12/24	6.6 ft	36 psi	6.9 gpm	20 amps	1/2" NPT
UP12/E	M164-681-15	12/24	9.8 ft	43.5 psi	10.5 gpm	25 amps	1/2" NPT
UP14/E	M164-690-15	12/24	9.8 ft	29 psi	12.2 gpm	30 amps	3/4" NPT

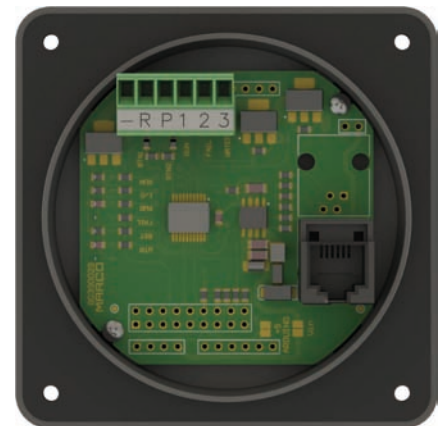
NEW!

PCS - CONTROL PANEL SYSTEM

The control panel allows remote monitoring and interaction with the electronic pump.

CHARACTERISTICS

- The user can see when the pump is On and if there is still liquid to be transferred.
- In case of automatic stop of the pump for overload or run dry alarm, the user can reset the alarm and restart the system without turning off the power.
- With the push of a button, the pump can be turned on or off.
- The panel can quick connect to the 10ft RJ11/6 terminal cable integrated in the sensor of the pump.
- The panel can be recessed or mounted externally.
- The terminal allows the user to replicate the buttons and LED on an external circuit. The user can personalize the management of the functions through a third-party device.



TYPE	PART NUMBER	VOLTS	PROTECTION	DIMENSIONS	BORE	CONNECTOR	HOLE
PCS	M165-203-15	12/24	IP67	3.1"x3.1"x1.8"		RJ11	2.8"



DECK WASHING PUMPS



Complete kits including a self-priming electric pump with electronic control. Equipped with helical PTFE gears, in-line filter, nickel plated brass body and check valve. With 32.8 ft stretchable coil hose and jet gun, equipped with quick-click connection, stop-jet, check valve and trigger with jet regulation. The kit are particularly suitable for washing operations either with salt or fresh water.

DP3/E



DP9/E



DP12/E



TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PRESSURE	FLOW RATE	AMPS	FUSE	PORTS (male)
DP3/E	M164-801-15	12/24	4.9 ft	43 psi	max. 3.7 gpm	10A	15 amps	3/8" NPT
DP9/E	M164-821-15	12/24	4.9 ft	58 psi	max. 3.7 gpm	12A	15 amps	3/8" NPT
DP12/E	M164-841-15	12/24	9.8 ft	72.5 psi	max. 4 gpm	24A	25 amps	1/2" NPT

Spare parts and accessories



Quick connection for deck washing pumps

Type **DQC**
Part Nr. **M165-100-00**

DIESEL TRANSFER GEAR PUMPS



Compact and professional self-priming electric pumps with bronze gears for transferring of liquids. Pump body in nickel-plated brass and stainless steel shaft.

Main applications: transfer of diesel fuel and antifreeze.



UP2



UP6



UP3

UP3-S

INTEGRATED ON/OFF SWITCH



UP3-R

INTEGRATED REVERSING SWITCH



UP12



UP14



TYPE	PART NUMBER	VOLTS
UP3-S	M162-010-12	12
	M162-010-13	24
UP3-R	M162-011-12	12
	M162-011-13	24

TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PRESSURE	FLOW RATE	AMPS	FUSE	PORTS (male)
UP2	M164-200-12	12	4.9 ft	22 psi	2.6 gpm	2.8 - 3.2	5 amps	3/8" NPT
	M164-200-13	24	4.9 ft	22 psi	2.6 gpm	1.4 - 1.6	3 amps	3/8" NPT
UP3	M164-000-12	12	4.9 ft	29 psi	4 gpm	5 - 6	10 amps	3/8" NPT
	M164-000-13	24	4.9 ft	29 psi	4 gpm	3 - 4	5 amps	3/8" NPT
UP6	M164-060-12	12	4.9 ft	29 psi	6.9 gpm	9 - 11	15 amps	1/2" NPT
	M164-060-13	24	4.9 ft	29 psi	6.9 gpm	5 - 6	7.5 amps	1/2" NPT
UP12	M164-300-12	12	13.1 ft	36 psi	9.5 gpm	20	20 amps	1/2" NPT
	M164-300-13	24	13.1 ft	36 psi	9.5 gpm	11	15 amps	1/2" NPT
UP14	M164-500-12	12	13.1 ft	29 psi	12.2 gpm	16	30 amps	3/4" NPT
	M164-500-13	24	13.1 ft	29 psi	12.2 gpm	8	20 amps	3/4" NPT

NEW!

ELECTRONIC DIESEL AND OIL PUMPS

VARIABLE SPEED



Self-priming automatic electric pumps, 12/24V, with electronic control for the transfer of diesel and oil.

Helical bronze gears, NBR check valve, body and connections in nicked brass, stainless steel shaft.

The pumps are supplied with a High-Speed setting for Diesel transfer. They can interact with a SCS control panel allowing the switch to the Low-Speed mode for the transfer of oil and viscous liquids.

Advantages:

- Dual Operating Modes: High Speed for Diesel and Low Speed for Oil
- Constant control of pressure, current and voltage.
- The electronic system tries to re-start the motor 4 times.
- Green/Red LED signals pump functions.
- Reduction of noise, current absorption and mechanical wearing.
- The pump is protected against short circuits and overloads.
- There is no need for a fuse.
- Blue flashing LED indicates empty tank.
- **NEW!** Integrated RJ11 cable for SCS connection

new!
UP2/E-BR



new!
UP3/E-BR



SCS available
See on Pag. 11

new!
UP6/E-BR



SCS available
See on Pag. 11

new!
UP9/E-BR



SCS available
See on Pag. 11

new!
UP14/E-BR



SCS available
See on Pag. 11

TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PRESSURE	FLOW RATE	FUSE	PORTS (male)
UP2/E-BR	M164-700-15	12/24	3.3 ft	29 psi	2.6 gpm	7.5 amps	3/8" NPT
UP3/E-BR	M164-710-15	12/24	4.9 ft	36 psi	4 gpm	15 amps	3/8" NPT
UP6/E-BR	M164-720-15	12/24	6.6 ft	36 psi	6.9 gpm	20 amps	1/2" NPT
UP9/E-BR	M164-730-15	12/24	9.8 ft	65.3 psi	3.2 gpm	15 amps	1/2" NPT
UP14/E-BR	M164-760-15	12/24	9.8 ft	29 psi	12 gpm	30 amps	3/4" NPT

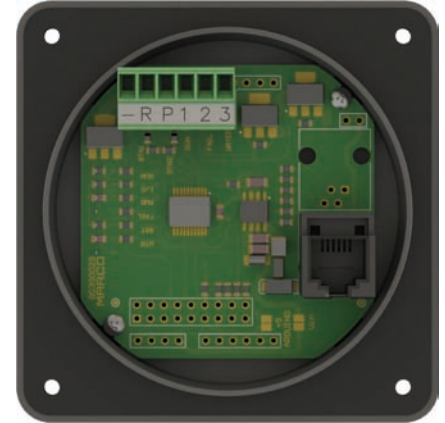
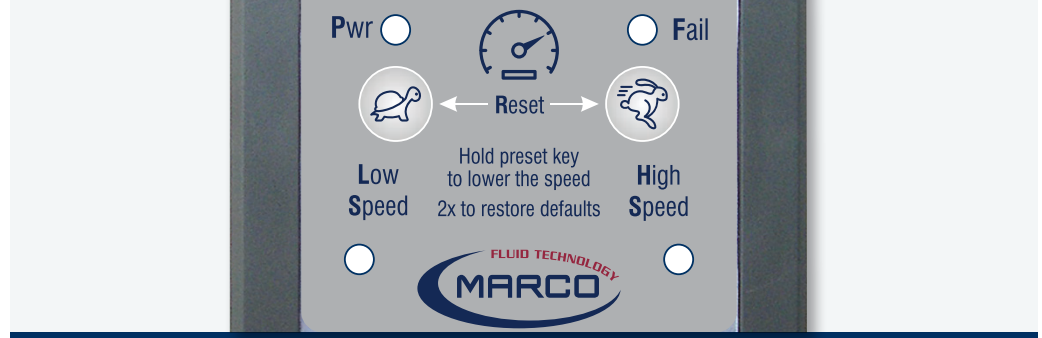
NEW!

SCS - SPEED CONTROL SYSTEM

The SCS panel controls the speed of the motor. The electronic pump can be set in High Speed for diesel or Low Speed for oil. The setting is kept when the panel is disconnected.

CHARACTERISTICS

- The panel fine-tunes the speed for maximum efficiency. Various flow rates can be obtained according to liquids of a different viscosities.
- The panel allows remote monitoring and interaction with the pump. Without disconnecting, the pump can be checked and reset in case of malfunction.
- The panel can quick connect to the 10ft RJ11/6 terminal cable integrated in the sensor of the pump.
- The panel can be recessed or mounted externally.
- The terminal allows the user to replicate the buttons and LED on an external circuit. The user can personalize the management of the functions through a third-party device.



TYPE	PART NUMBER	VOLTS	PROTECTION	DIMENSIONS	CONNECTOR	HOLE
SCS	M164-204-15	12/24	IP65	3.1"x3.1"x1.8"	RJ11	2.8"

110V & 220V PUMPS



Self-priming electric pumps with gears for transferring of fuel and oils. Nickel-plated brass body and shaft in stainless steel AISI 420. Voltage available 110V and 220V single phase.

For 110V items minimum order quantity required.

UP1/AC



FLEXIBLE RUBBER IMPELLER

UP3/AC



BRONZE GEARS

UP6/AC



PTFE GEARS

UP14/AC



PTFE GEARS

VP45/AC



VANE PUMP

TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PRESSURE max.	FLOW RATE max.	AMPS	MOTOR	FUSE	PORTS	THREAD
UP1/AC	M162-001-1B	110	4.9 ft	14.5 psi	9.5 gpm	6.6	550W	8 amps	1"	1/2" BSP
	M162-001-1C	220	4.9 ft	14.5 psi	7.9 gpm	3.3	550W	4 amps	1"	1/2" BSP
UP3/AC	M164-001-1B	110	4.9 ft	87 psi	3.2 gpm	1.6	150W	2.5 amps	1/2"	3/8" NPT
	M164-001-1C	220	4.9 ft	87 psi	2.64 gpm	0.8	150W	1.25 amps	1/2"	3/8" NPT
UP6/AC	M164-061-1B	110	4.9 ft	72.5 psi	8.9 gpm	4.4	550W	5 amps	5/8"	1/2" NPT
	M164-061-1C	220	4.9 ft	72.5 psi	7.4 gpm	2.2	550W	2.5 amps	5/8"	1/2" NPT
UP14/AC	M164-540-1B	110	9.8 ft	58 psi	13.9 gpm	0.6	550W	6 amps	3/4"	3/4" BSP
	M164-540-1C	220	9.8 ft	58 psi	11.6 gpm	1.7	550W	3 amps	3/4"	3/4" BSP
VP45/AC	M166-030-1B	110	4.9 ft	14.5 psi	11.1 gpm	0.6	150W	2.5 amps	1"	---
	M166-030-1C	220	4.9 ft	14.5 psi	9.25 gpm	0.3	150W	1.25 amps	1"	---

DIESEL REFUELING VANE PUMPS



Self-priming electric vane pump with integrated by-pass valve. Aluminium body. Multiple quick-fit connections for 1" pipe. Rotor and vanes made of resin. Has brush holder with EMI filter, On/Off switch and battery clips.

Main applications: diesel, oil and antifreeze transfer. Available also with case and handle for easy transport.

VP45-K
Refuelling Kit



VP45-S
Integrated ON/OFF Switch



TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PRESSURE max.	FLOW RATE max.	AMPS	FUSE	PORTS
VP45-K	M166-024-12	12	4.9 ft	17.4 psi	11.9 gpm	8 - 19	20 amps	1"
	M166-024-13	24	4.9 ft	17.4 psi	11.9 gpm	4 - 9.5	10 amps	1"
VP45	M166-020-12	12	4.9 ft	17.4 psi	11.9 gpm	8 - 19	20 amps	1"
	M166-020-13	24	4.9 ft	17.4 psi	11.9 gpm	4 - 9.5	10 amps	1"
VP45-S	M166-028-12	12	5 ft	17.4 psi	11.9 gpm	8 - 19	20 amps	1"
	M166-028-13	24	5 ft	17.4 psi	11.9 gpm	4 - 9.5	10 amps	1"
VP45-N	M166-026-12	12	4.9 ft	17.4 psi	11.9 gpm	8 - 19	20 amps	1"
	M166-026-13	24	4.9 ft	17.4 psi	11.9 gpm	4 - 9.5	10 amps	1"

OIL TRANSFER GEAR PUMPS

**LOW
SPEED**



Self-priming electric pumps with helical bronze gears for transferring lubricating oils and viscous liquids. Nickel-plated brass body and stainless steel shaft.

Main applications: draining engine sumps and lubricating engines.

UP2/OIL



UP6/OIL



UP3/OIL



UP12/OIL



UP3/OIL-R



**INTEGRATED
REVERSING
SWITCH**

TYPE	PART NUMBER	VOLTS
UP3/OIL-R	M164-022-12	12
	M164-022-13	24

UP14/OIL



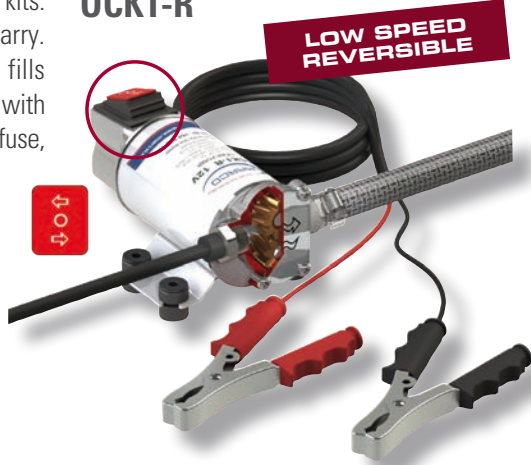
TYPE	PART NUMBER	VOLTS	SELF-PRIMING	FLOW RATE (OIL SAE 30 AT 77°F)	AMPS	FUSE	PORTS (male)
UP2/OIL	M164-220-12	12	3.3 ft	52.9 gph	2.3 - 2.7	3 amps	3/8" NPT
	M164-220-13	24	3.3 ft	52.9 gph	1.1 - 1.4	1.5 amps	3/8" NPT
UP3/OIL	M164-020-12	12	3.3 ft	87.20 gph	5.5 - 6.5	7.5 amps	3/8" NPT
	M164-020-13	24	3.3 ft	87.20 gph	2.5 - 3.5	4 amps	3/8" NPT
UP6/OIL	M164-080-12	12	4.9 ft	126.82 gph	6.5 - 8.5	10 amps	3/8" NPT
	M164-080-13	24	4.9 ft	126.82 gph	3.5 - 4.5	7.5 amps	3/8" NPT
UP12/OIL	M164-320-12	12	6.6 ft	238 gph	11 - 12	15 amps	1/2" NPT
	M164-320-13	24	6.6 ft	238 gph	5.5 - 6.5	7.5 amps	1/2" NPT
UP14/OIL	M164-520-12	12	6.6 ft	290 gph	13 - 14	20 amps	3/4" NPT
	M164-520-13	24	6.6 ft	290 gph	6.5 - 7.5	15 amps	3/4" NPT

OIL & DIESEL TRANSFER KITS



Compact size oil change kits. Easy to operate and carry. Reversible: drains and fills oil and diesel. Complete with bronze gear pump, clips, fuse, hoses and accessories.

OCK1-R



Compact size oil change kit with integrated 3-position switch for flow reversibility.

OCK1



Oil change kit with manual control, 12V or 24V. Reversible: drains and fills oils.

OCK1-E



Electronic control panel and 12/24V universal voltage. Variable speed of the motor proportional to the liquid viscosity. Suitable for oil and diesel.

UP3-CK



Self-priming electric pump with bronze gears for diesel transfer. Complete with On/Off switch, cable with integrated fuse and battery clips.

TYPE	PART NUMBER	VOLTS	SELF-PRIMING	FLOW RATE			AMPS	FUSE	PORTS (male)	THREAD
				1/4"	5/16"	15/32"				
OCK1	M164-930-12	12	3.3 ft	5.30 gph	15.90 gph	87.20 gph	5.5 - 6.5	7.5 amps	1/2"	3/8" BSP
	M164-930-13	24	3.3 ft	5.30 gph	15.90 gph	87.20 gph	5.5 - 6.5	4 amps	1/2"	3/8" BSP
OCK1-E	M164-931-15	12/24	3.3 ft	9.25 gph	29 gph	158.5 gph	max 6	7.5 amps	1/2"	3/8" BSP
OCK1-R	M164-932-12	12	3.3 ft	5.30 gph	15.90 gph	87.20 gph	5.5 - 6.5	7.5 amps	1/2"	3/8" BSP
	M164-932-13	24	3.3 ft	5.30 gph	15.90 gph	87.20 gph	5.5 - 6.5	4 amps	1/2"	3/8" BSP
UP3-CK	M164-006-12	12	4.9 ft		4 gpm max.		5 - 6	10 amps	1/2"	3/8" BSP
	M164-006-13	24	4.9 ft		4 gpm max.		3 - 4	5 amps	1/2"	3/8" BSP

REVERSIBLE OIL & DIESEL PUMPS



Pumps for oil and diesel filling and draining with electronic controls. The touchpad electronic sensor adjusts the speed of the motor according to the liquid viscosity and temperature. Compact design. Automatic shut-off for empty tank and short circuit. System will shut-off after 30 minutes of operation. Fittings with 1 or 2 valves available.


UP3-RK





UP6-RK




- REVERSIBLE
- ELECTRONIC CONTROL
- VARIABLE SPEED OF THE MOTOR

TYPE	PART NUMBER
OCP1/3	M165-030-00
	3/8" valve

TYPE	PART NUMBER
OCP1/6	M165-032-00
	1/2" valve

TYPE	PART NUMBER
OCP2/3	M165-031-00
	Two 3/8" valves and 1 NPT fitting

TYPE	PART NUMBER
OCP2/6	M165-033-00
	Two 1/2" valves and 1 NPT fitting

TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PORTS (male)	FLOW RATE	AMPS
UP3-RK	M164-005-15	12/24	4.9 ft	3/8" NPT	4 gpm	4 / 2
UP6-RK	M164-064-15	12/24	4.9 ft	1/2" NPT	6.9 gpm	5 / 2.5

OIL CHANGE SYSTEMS

Compact, easy to use oil change system for fixed installations that eliminates leaks. Used for oil filling and draining operations. Applications include generators, engines, transmissions and catwalks. The touchpad electronic sensor adjusts the speed of the motor according to the oil viscosity and temperature and increases the system speed during priming. Automatic shut-off for empty tank and short circuit. System will shut-off after 30 minutes of operation.



OCS3/E



OCS5/E



OCS6/E



OCS9/E



TYPE	PART NUMBER	VOLTS	SELF-PRIMING	PORTS (male)	FLOW RATE	AMPS
OCS3/E	M164-924-15	12/24	4.9 ft	1/2" NPT	2.6 gpm	4 / 2
OCS5/E	M164-925-15	12/24	4.9 ft	1/2" NPT	2.6 gpm	4 / 2
OCS6/E	M164-926-15	12/24	4.9 ft	1/2" NPT	4 gpm	5 / 2.5
OCS9/E	M164-928-15	12/24	4.9 ft	1/2" NPT	4 gpm	5 / 2.5
	M164-928-1H	110/220	4.9 ft	1/2" NPT	4 gpm	0.6 / 0.3



IMO/USCG APPROVED HORNS

12-20 m (40-65 ft)

Approved signaling whistle complete with chromed or white horn Ø200mm, electric compressor and mounting accessories. Meets COLREG 1972 IMO class IV regulations. Approvals: NMMA ABYC A-23, RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS.



**SPECIAL
ORDER**



20-75 m (65-246 ft)

Approved signalling whistle complete with chromed or white horn Ø 300 mm. Electric valve and mounting accessories, for compressed air operation 6/12 bar. Meets COLREG 1972 IMO class III regulations. Approvals: NMMA ABYC A-23, RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS.

**SPECIAL
ORDER**



TYPE	PART NUMBER	VOLTS	AMPS	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONS	Pcs. x carton
PW2	M150-000-12	12	20	123	315	18.1" x Ø7.9"	1
	M150-000-13	24	10	123	315	18.1" x Ø7.9"	1
PW2-BC	M150-002-12	12	20	123	315	17.7" x Ø7.9"	1
	M150-002-13	24	10	123	315	17.7" x Ø7.9"	1
PW2-BB	M150-003-12	12	20	123	315	17.7" x Ø7.9"	1
	M150-003-13	24	10	123	315	17.7" x Ø7.9"	1
PW3	M152-000-12	12	4,5	132	315	18.1" x Ø11.8"	1
	M152-000-13	24	2,5	132	315	18.1" x Ø11.8"	1
PW3-BC	M152-002-12	12	4,5	132	315	17.9" x Ø11.8"	1
	M152-002-13	24	2,5	132	315	17.9" x Ø11.8"	1
PW3-BB	M152-003-12	12	4,5	132	315	17.9" x Ø11.8"	1
	M152-003-13	24	2,5	132	315	17.9" x Ø11.8"	1

**Spare parts
and accessories**



Compressor for PW2 series - INCLUDED

Type	M1-W	M1-W
Part Nr.	MR50-000-33	MR50-000-34
	12V	24V



Compressor for PW3 series - NOT INCLUDED

Type	M3	M3
Part Nr.	M135-100-12	M135-100-13
	12V	24V



IMO/USCG APPROVED HORNS

12-20 m (40-65 ft)

Approved electronic whistle complete with loudspeaker, built-in touchpad control panel and electronic controller. New ultrasonic heating system for improved acoustic membrane performance. Meets COLREG 1972 IMO class IV international regulations with NMMA ABYC A-23, RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS, and BSH homologations. Includes mounting kit.



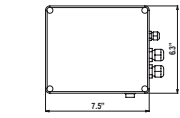
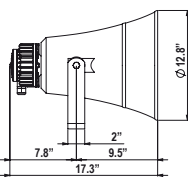
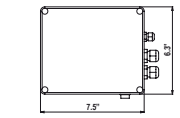
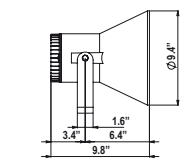
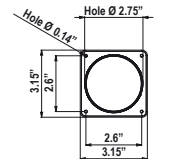
20-75 m (65-246 ft)



EW2



EW3



TYPE	PART NUMBER	VOLTS	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONS	Pcs. x carton
EW2	M150-040-12	12	3	122	675	9.8"x9.3"	1
	M150-040-13	24	1,5	122	675	9.8"x9.3"	1
EW2-M	M150-041-12	12	3	122	675	9.8"x9.3"	1
	M150-041-13	24	1,5	122	675	9.8"x9.3"	1
EW2-MS	M150-044-12	12	3	122	675	9.8"x9.3"	1
	M150-044-13	24	1,5	122	675	9.8"x9.3"	1
EW3	M152-063-13	24	4	131	690	16.6"x12.5"	1
EW3-M	M152-060-13	24	4	131	690	16.6"x12.5"	1
EW3-MS	M152-064-13	24	4	131	690	16.6"x12.5"	1

Available functions		HORN	FOG	VHF INPUT	MICROPHONE	SIREN
TYPE	PART NUMBER					
EW2	M150-040-12	•	•			
	M150-040-13	•	•			
EW2-M	M150-041-12	•	•	•	•	
	M150-041-13	•	•	•	•	
EW2-MS	M150-044-12	•	•	•	•	•
	M150-044-13	•	•	•	•	•
EW3	M152-063-13	•	•		•	
EW3-M	M152-060-13	•	•	•	•	
EW3-MS	M152-064-13	•	•	•	•	•

HORNS & WHISTLES



SK1 SK1/C

Electromagnetic horn for small boats. High impact casing in chromed or white ASA. Mounting bracket in AISI 304 stainless steel. Excellent drainage system.



SK1



SK1/C

SPECIAL ORDER

TYPE	PART NUMBER	VOLTS	DIMENSIONS	dB (A) (3.3 ft)	Hz	AMPS
SK1	M132-081-22	12	38.5" x 39" x 55.5"	108	400	5
SK1/C	M132-082-22	12	38.5" x 39" x 55.5"	108	400	5



SM1 SM1/C



Internally mounted electromagnetic horn for small rubber and sailing boats. Body in chromed or white ASA. UV resistant. Grille in white or chromed ASA with snap-on system.



SM1



SM1/C

SPECIAL ORDER

TYPE	PART NUMBER	VOLTS	DIMENSIONS	dB (A) (3.3 ft)	Hz	AMPS
SM1	M132-101-22	12	46" x 35" x 43.5"	108	400	5
SM1/C	M132-102-22	12	46" x 35" x 43.5"	108	400	5

EMX1 EMX2 EMX1/2



Single or double electromagnetic horn with stainless steel trumpet, bracket and membrane. New support design with integrated cable. Complete with fixing hardware.



EMX1

SPECIAL ORDER



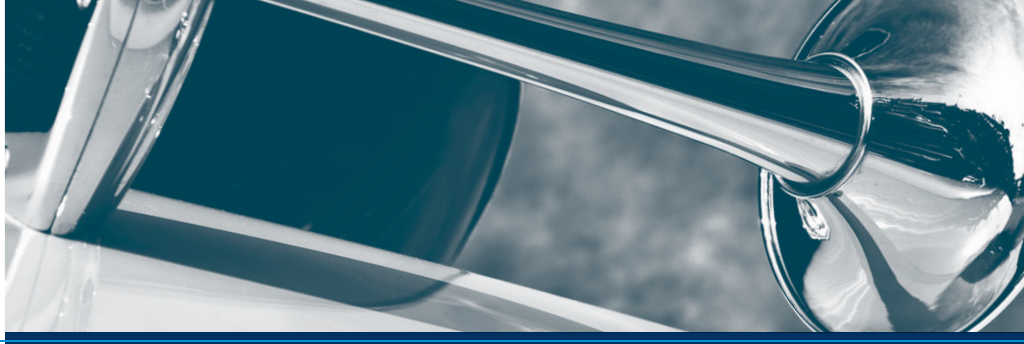
EMX1/2

EMX2



TYPE	PART NUMBER	VOLTS	DIMENSIONS	dB (A) (3.3 ft)	Hz	AMPS
EMX1	M132-043-22	12	185"	119	340	6
	M132-043-23	24	185"	119	340	3
EMX2	M132-042-22	12	157.5"	119	370	6
	M132-042-23	24	157.5"	119	370	3
EMX1/2	M132-061-22	12	157.5"/185"	122	340/370	12
	M132-061-23	24	157.5"/185"	122	340/370	6

HORNS & WHISTLES



HURRICANE

**HR1
HR1/C**



Enclosure type electro-pneumatic horn for boats with integrated compressor. ASA grille and steel bracket. Extremely powerful.



HR1



HR1/C

TYPE	PART NUMBER	VOLTS	DIMENSIONS	dB (A) (3.3 ft)	Hz	AMPS
HR1	M134-080-12	12	38.5" x 39" x 55.5"	120	310	5
	M134-080-13	24	38.5" x 39" x 55.5"	120	310	5
HR1/C	M134-081-12	12	46" x 35" x 43.5"	120	310	5
	M134-081-13	24	46" x 35" x 43.5"	120	310	5

**EMH-M
EMH-MS**

Multifunction electronic whistle with loudspeaker, AISI 316 stainless steel bracket and electronic unit. Waterproof. Available with the following functions: horns, automatic fog signal, VHF input, microphone and siren.



TYPE	PART NUMBER	VOLTS	PROTECTION	dB (A) (3.3 ft)	Hz	DIMENSIONS
EMH-M	M136-001-12	12	IP67	112	800	60.5" x 47.5" x 52"
	M136-001-13	24	IP67	112	800	60.5" x 47.5" x 52"
EMH-MS	M136-002-12	12	IP67	112	800	60.5" x 47.5" x 52"
	M136-002-13	24	IP67	112	800	60.5" x 47.5" x 52"



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