MATE USA

PUMPS
SIGNAL **HORNS**









MARCO

ABOUT US

MATE USA was developed thanks to the partnership between Tessilmare and Marco, two of the world's premier marine product suppliers.

Tessilmare is renowned for providing some of the most affordable, durable, and attractive ranges of rub rails anywhere in the world. Founded in Italy in 1947, you know you're getting a high quality product, with a precision finish.

Marco produces one of the most comprehensive ranges of marine pumps and signal horns available. Founded in Italy in 1970, Marco products are distributed to more than 80 countries worldwide.

Through market research and global innovation, MATE USA is constantly growing and expanding to meet global demand. MATE USA understands what it takes to be successful in a high-speed, online, global marketplace.

MATE USA, LLC

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PUMPS
DIESEL PUMPS

50	**BRONZE GEAR PUMPS** *POMPE AD INGRANAGGI IN BRONZO*
51	12V-24V - DC
55	230V-110V - DC
57	**VANE PUMPS** *POMPE A PALETTE*
58	12V-24V - DC
59	230V- DC

DIESEL/OIL PUMPS

60	**12/24V ADJUSTABLE SPEED ELECTRONIC PRESSURE PUMPS** *POMPE ELETTRONICHE 12/24V A VELOCITÀ REGOLABILE*
64	SCS - SPEED CONTROL SYSTEM
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66	**BRONZE GEAR PUMPS** *POMPE AD INGRANAGGI IN BRONZO*
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73	**12/24V ELECTRONIC OIL CHANGE KITS** *KIT CAMBIO OLIO ELETTRONICI 12/24V*
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SEARCH LIGHTS

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IT Avvisatori sonori omologati disponibili in due versioni:
- Ad aria, con compressore e tromba bianca o cromata (serie PW);
- Elettronici, con altoparlante, centralina, membrana acustica a riscaldamento ultrasonico e pannello di controllo remoto (serie EW).
Omologazioni disponibili: RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS, NMMA e BSH in accordo alle norme internazionali COLREG 1972 IMO classi III e IV.

DE Zugelassene Schallsignalanlagen, in zwei Versionen erhältlich:
- Druckluftbetrieben, mit Kompressor und weißem oder verchromtem Trichter (PW Serie);
- Elektronisch, mit Lautsprecher, elektronischer Einheit, akustischer Membran mit ultrasonischem Wärmesystem (EW Serie).
Verfügbare Zulassungen: RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS, NMMA und BSH, gemäß den internationalen Regeln COLREG 1972 IMO Klassen III und IV.

FR Avertisseurs homologués, disponibles en deux versions :
- A air, avec compresseur et cornet blanc ou chromé (série PW)
- Electroniques, avec hautparleur, fiche électronique, membrane acoustique à chauffage ultrasonique et panneau de contrôle (série EW).
Homologations disponibles : RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS, NMMA et BSH, selon les normes internationales COLREG 1972 IMO classes III e IV.

EN Approved signaling horns, available in two versions:
- Air operated, with compressor and white or chromed trumpet (PW series);
- Electronic, with loudspeaker, control unit, acoustic membrane with ultrasonic heating system and remote control panel (EW series).
Available approvals: RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS, NMMA and BSH according to international regulations COLREG 1972 IMO classes III e IV.

ES Bocinas homologadas disponibles en dos versiones:
- De aire, con compresor y corneta blanca o cromada (serie PW);
- Electrónicas, con altavoz, unidad electrónica, membrana acústica à calefacción ultrasónica, y panel de control (serie EW).
Homologaciones disponibles: RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS, NMMA y BSH, según las normas internacionales COLREG 1972 IMO clases III e IV.

PT Buzinas homologadas disponíveis em duas versões:
- A ar, com compressor e corneta branca ou cromada (serie PW);
-Electrónicas, com alto-falante, unidade electrónica, membrana acústica à aquecimento ultrasonico e painel de comando (serie EW).
Homologações disponíveis: RINA, LLOYD'S REGISTER MCA, BUREAU VERITAS, NMMA e BSH, segundo as normas internacionais COLREG 1972 IMO classes III e IV.

APPROVALS

APPROVED AIR HORNS FOR VESSELS 12÷20 m

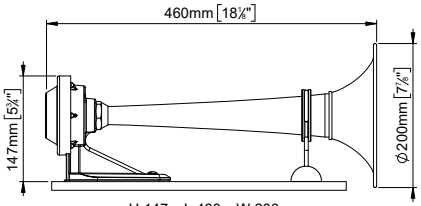
PW2



12V
24V

APPROVALS





H 147 x L 460 x W 200
H 5 3/4" x 18 1/8" x 7 7/8"

Features

- Compressor M1-W included
- Protective cap available (see page 9)

CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M150-000-12	12	25	>120	315	147 x 460 x 200	1
M150-000-13	24	20	>120	315	147 x 460 x 200	1

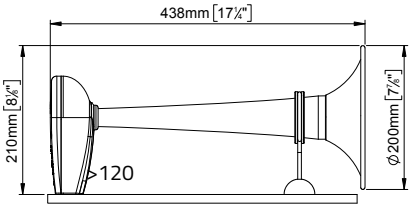
PW2-BC



12V
24V

APPROVALS





H 210 x L 438 x W 200
H 8 1/8" x L 17 1/4" x W 7 7/8"

Features

- Compressor M1-W included
- Protective cap available (see page 9)

CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M150-002-12	12	25	>120	315	207 x 438 x 200	1
M150-002-13	24	20	>120	315	207 x 438 x 200	1

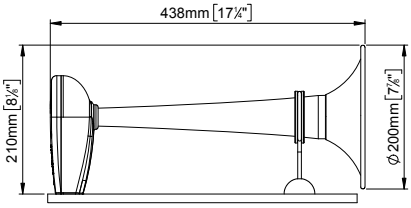
PW2-BB



12V
24V

APPROVALS





H 210 x L 438 x W 200
H 8 1/8" x L 17 1/4" x W 7 7/8"

Features

- Compressor M1-W included
- Protective cap available (see page 9)

CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M150-003-12	12	25	>120	315	207 x 438 x 200	1
M150-003-13	24	20	>120	315	207 x 438 x 200	1

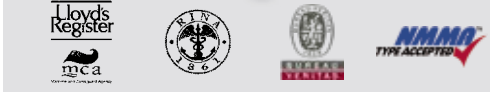
PW2-BN

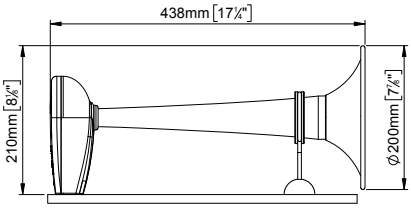
NEW



12V
24V

APPROVALS





H 210 x L 438 x W 200
H 8 1/8" x L 17 1/4" x W 7 7/8"

Features

- Compressor M1-W included
- Protective cap available (see page 9)

CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M150-006-12	12	25	>120	315	207 x 438 x 200	1
M150-006-13	24	20	>120	315	207 x 438 x 200	1

APPROVED AIR HORNS FOR VESSELS 20÷75 m

PW3

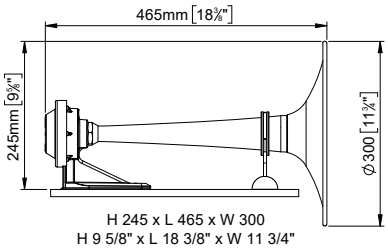


12V
24V

APPROVALS

Features

- Protective cap available (see page 9)



CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M152-000-12	12	4,5	132	315	245 x 465 x 300	1
M152-000-13	24	2,5	132	315	245 x 465 x 300	1

PW3-BC

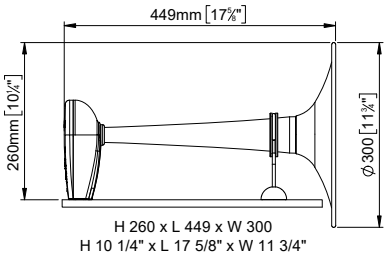


12V
24V

APPROVALS

Features

- Protective cap available (see page 9)



CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M152-002-12	12	4,5	132	315	260 x 449 x 300	1
M152-002-13	24	2,5	132	315	260 x 449 x 300	1

PW3-BB

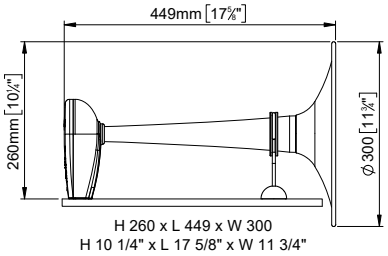


12V
24V

APPROVALS

Features

- Protective cap available (see page 9)



CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M152-003-12	12	4,5	132	315	260 x 449 x 300	1
M152-003-13	24	2,5	132	315	260 x 449 x 300	1

PW3-BN

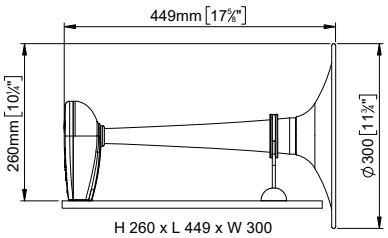
NEW



APPROVALS

Features

- Protective cap available (see page 9)



H 260 x L 449 x W 300
H 10 1/4" x L 17 5/8" x W 11 3/4"

CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M152-004-12	12	4,5	132	315	260 x 449 x 300	1
M152-004-13	24	2,5	132	315	260 x 449 x 300	1

Spare parts and accessories

Protective caps

For PW2



White Ø 200 cm
Part No. R50 000 06



Black Ø 200 cm
Part No. R50 000 44

For PW3



White Ø 200 cm
Part No. R52 000 06



Black Ø 300 cm
Part No. R52 000 25

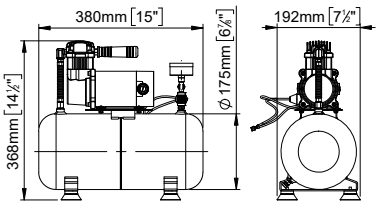
COMPRESSOR FOR APPROVED HORNS

M3



Features

- **SUITABLE FOR PW3 AND MULTITONE HORNS**
- Push-on fitting
- 8 liters tank



H 368 x L 380 x W 192
H 14 1/2" x L 15" x W 7 1/2"

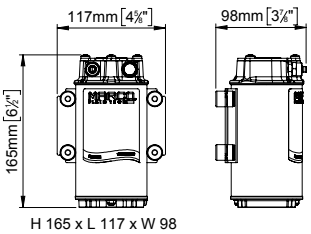
CODICE PART NUMBER	VOLT	PORTATA AIR FLOW RATE	PRESSIONE PRESSURE	MOTORE MOTOR	ATTACCO CONNECTION	DIMENSIONI DIMENSIONS mm	PESO WEIGHT
M135-100-12	12	47 l/min	8 bar / 116 psi	240 W	Ø 6 mm int.	368 x 380 x 192	9 Kg
M135-100-13	24	47 l/min	8 bar / 116 psi	240 W	Ø 6 mm int.	368 x 380 x 192	9 Kg

M1-W



Features

- **SUITABLE FOR PW2**
- Push-on fitting
- Oil free



H 165 x L 117 x W 98
H 6 1/2" x L 4 5/8" x W 3 7/8"

CODICE PART NUMBER	VOLT	PORTATA AIR FLOW RATE	PRESSIONE PRESSURE	MOTORE MOTOR	CORPO BODY	ROTORE ROTOR	ALBERO SHAFT	ATTACCO CONNECTION	DIMENSIONI DIMENSIONS mm	PESO WEIGHT
R50 000 33	12	60 l/min	2 bar / 29 psi	180W	Alluminio Aluminium	Alluminio Aluminium	AISI 303	Ø 6 mm int.	165 x 117 x 103	2,4 kg
R50 000 34	24	60 l/min	2 bar / 29 psi	180W	Alluminio Aluminium	Alluminio Aluminium	AISI 303	Ø 6 mm int.	165 x 117 x 103	2,4 kg

APPROVED ELECTRONIC HORNS FOR VESSELS 12÷20 m

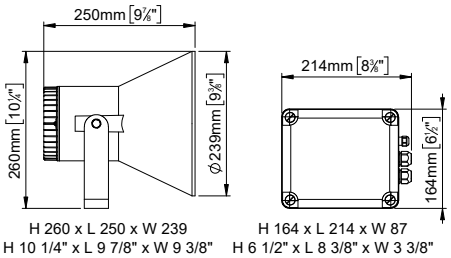
EW2



APPROVALS

Features

- Horn
- Automatic fog signal
- Control Panel SB-UV included (see page 15)



H 260 x L 250 x W 239
H 10 1/4" x L 9 7/8" x W 9 3/8"

H 164 x L 214 x W 87
H 6 1/2" x L 8 3/8" x W 3 3/8"

CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M150-040-12	12	3	122	690	260 x 250 x 239	1
M150-040-13	24	1,5	122	690	260 x 250 x 239	1

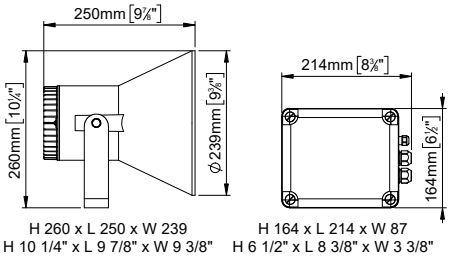
EW2-M



APPROVALS

Features

- Horn
- Automatic fog signal
- VHF Input
- Microphone
- Control Panel SB-UV included (see page 15)



H 260 x L 250 x W 239
H 10 1/4" x L 9 7/8" x W 9 3/8"

H 164 x L 214 x W 87
H 6 1/2" x L 8 3/8" x W 3 3/8"

CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M150-041-12	12	3	122	690	260 x 250 x 239	1
M150-041-13	24	1,5	122	690	260 x 250 x 239	1

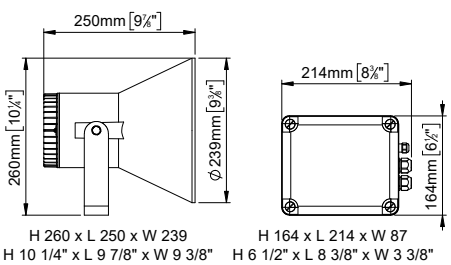
EW2-MS



APPROVALS

Features

- Horn
- Automatic fog signal
- VHF Input
- Microphone
- Siren
- Control Panel SB-UV included (see page 15)



H 260 x L 250 x W 239
H 10 1/4" x L 9 7/8" x W 9 3/8"

H 164 x L 214 x W 87
H 6 1/2" x L 8 3/8" x W 3 3/8"

CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M150-044-12	12	3	122	690	260 x 250 x 239	1
M150-044-13	24	1,5	122	690	260 x 250 x 239	1

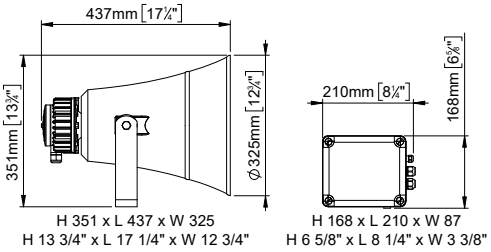
APPROVED ELECTRONIC HORNS FOR VESSELS 20÷75 m

EW3



APPROVALS





Features

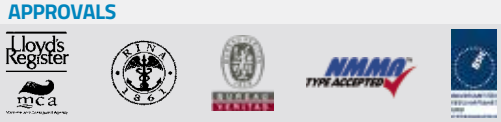
- Horn
- Automatic fog signal
- Control Panel SB-UV included (see page 15)

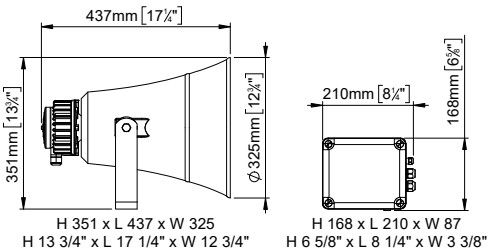
CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M152-063-13	24	5	131	698	351 x 437 x 325	1

EW3-M



APPROVALS





Features

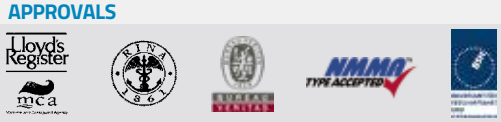
- Horn
- Automatic fog signal
- VHF Input
- Microphone
- Control Panel SB-UV included (see page 15)

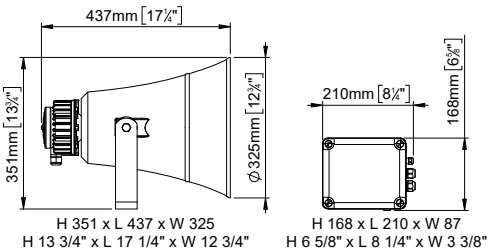
CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M152-060-13	24	5	131	698	351 x 437 x 325	1

EW3-MS



APPROVALS





Features

- Horn
- Automatic fog signal
- VHF Input
- Microphone
- Siren
- Control Panel SB-UV included (see page 15)

CODICE PART NUMBER	VOLT	AMP.	dB (1/3 OCT.) (1 m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M152-064-13	24	5	131	698	351 x 437 x 325	1

APPROVED BELLS FOR VESSELS 12÷20 m

BE2



Features

- Polished brass
- Ø 200 mm
- RINA Approved

CODICE PART NUMBER	MATERIALE MATERIAL	DIMENSIONI DIMENSIONS mm	PESO WEIGHT kg	Pcs. x carton
M150-020-10	ottone polished brass	Ø200	2,5	1

BE2-C



Features

- Chromed brass
- Ø 200 mm
- RINA Approved

CODICE PART NUMBER	MATERIALE MATERIAL	DIMENSIONI DIMENSIONS mm	PESO WEIGHT kg	Pcs. x carton
M150-021-10	ottone cromato chrome plated brass	Ø200	2,5	1

APPROVED BELLS FOR VESSELS 20÷75 m

BE3



Features

- Polished brass
- Ø 300 mm
- RINA Approved

CODICE PART NUMBER	MATERIALE MATERIAL	DIMENSIONI DIMENSIONS mm	PESO WEIGHT kg	Pcs. x carton
M152-020-10	ottone polished brass	Ø300	8	1

BE3-C



Features

- Chromed brass
- Ø 300 mm
- RINA Approved

CODICE PART NUMBER	MATERIALE MATERIAL	DIMENSIONI DIMENSIONS mm	PESO WEIGHT kg	Pcs. x carton
M152-021-10	ottone cromato chrome plated brass	Ø300	8	1



IT Fischi elettronici completi di altoparlante stagno con staffa in acciaio inox AISI 316 e scheda elettronica. Disponibili le versioni con segnale automatico per nebbia, microfono, sirena personalizzabile e entrata VHF e stereo.

DE Elektronische Schallsignalanlage, mit wasserdichtem Lautsprecher, Haltebügel aus Edelstahl AISI 316 und elektronischer Einheit. Erhältlich auch in den Versionen mit automatischem Signal für Nebel, VHF- und Stereo-Eingang, Mikrofon, und anpassbarer Sirene.

FR Avertisseur électronique équipé d'haut-parleur étanche, étrier en acier inoxydable AISI 316 et centrale électronique. Versions disponibles avec signal de brume automatique, microphone, sirène personnalisable et entrée VHF et stéréo.

EN Waterproof electronic horns complete with loudspeaker, AISI 316 stainless steel bracket and electronic unit. Available with automatic fog signal, microphone, customizable siren , VHF and stereo input.

ES Bocina electrónica con altavoz estanco, abrazadera en acero inox AISI 316 y ficha electrónica. Versiones disponibles con señal automática de niebla, micrófono, sirena personalizable, entrada VHF y estéreo.

PT Buzina electrónica com alto-falante estanque, suporte em aço inox AISI 316 e ficha electrónica. Versões disponíveis com sinal automático de nevoeiro, microfone, sirena personalizável, entrada VHF e estéreo.

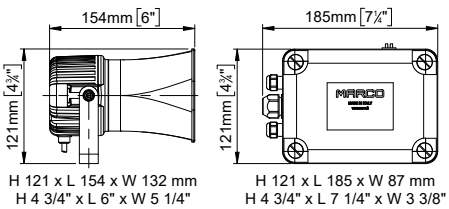
AVAILABLE FUNCTIONS

TROMBA HORN | SEGNALE NEBBIA AUTOMATIC FOG SIGNAL | VHF INPUT | MICROFONO MICROPHONE | SIRENA SIREN | STEREO INPUT

EMH



12V
24V



H 121 x L 154 x W 132 mm
H 4 3/4" x L 6" x W 5 1/4"

H 121 x L 185 x W 87 mm
H 4 3/4" x L 7 1/4" x W 3 3/8"

Features

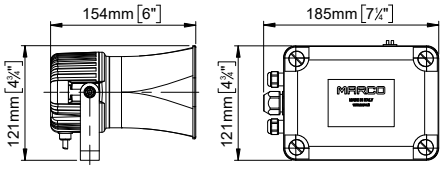
- Horn
- Automatic fog signal
- IP66
- Stainless steel bracket

CODICE PART NUMBER	VOLT	AMP.	PROTEZIONE PROTECTION	dB (1/3 OCT.) (1m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M136-000-12	12	1,5	IP66	112	800	121 x 154 x 132	1
M136-000-13	24	1	IP66	112	800	121 x 154 x 132	1

EMH-M



12V
24V



H 121 x L 154 x W 132 mm
H 4 3/4" x L 6" x W 5 1/4"

H 121 x L 185 x W 87 mm
H 4 3/4" x L 7 1/4" x W 3 3/8"

Features

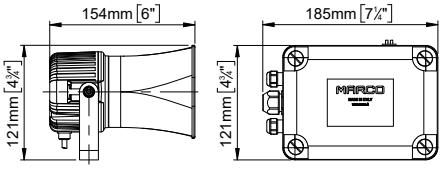
- Horn
- Automatic fog signal
- VHF Input
- Microphone
- IP66
- Stainless steel bracket

CODICE PART NUMBER	VOLT	AMP.	PROTEZIONE PROTECTION	dB (1/3 OCT.) (1m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M136-001-12	12	1,5	IP66	112	800	121 x 154 x 132	1
M136-001-13	24	1	IP66	112	800	121 x 154 x 132	1

EMH-MS



12V
24V



H 121 x L 154 x W 132 mm
H 4 3/4" x L 6" x W 5 1/4"

H 121 x L 185 x W 87 mm
H 4 3/4" x L 7 1/4" x W 3 3/8"

Features

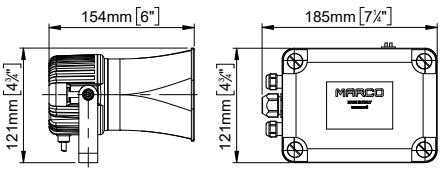
- Horn
- Automatic fog signal
- VHF Input
- Microphone
- Siren
- IP66
- Stainless steel bracket

CODICE PART NUMBER	VOLT	AMP.	PROTEZIONE PROTECTION	dB (1/3 OCT.) (1m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M136-002-12	12	1,5	IP66	112	800	121 x 154 x 132	1
M136-002-13	24	1	IP66	112	800	121 x 154 x 132	1

EMH-2



12V
24V



H 121 x L 154 x W 132 mm
H 4 3/4" x L 6" x W 5 1/4"

H 121 x L 185 x W 87 mm
H 4 3/4" x L 7 1/4" x W 3 3/8"

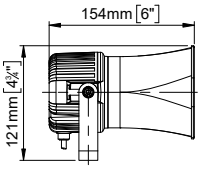
Features

- Horn
- Automatic fog signal
- VHF Input
- Microphone
- Siren
- Stereo Input
- IP66
- Stainless steel bracket

CODICE PART NUMBER	VOLT	AMP.	PROTEZIONE PROTECTION	dB (1/3 OCT.) (1m)	Hz	DIMENSIONI DIMENSIONS mm	Pcs. x carton
M136-012-12	12	1,5	IP66	115	800	121 x 154 x 132	1
M136-012-13	24	1	IP66	115	800	121 x 154 x 132	1

EMH-L





H 121 x L 154 x W 132 mm
H 4 3/4" x L 6" x W 5 1/4"

Features

- IP66
- Stainless steel bracket

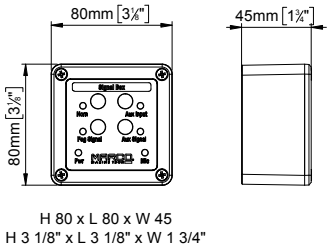
CODICE PART NUMBER	PROTEZIONE PROTECTION	OHM Ω	W	DIMENSIONI DIMENSIONS mm
M137-040-10	IP66	8	20	121 x 154 x 132

CONTROL PANEL FOR EW AND EMH SERIES



SB-UV





H 80 x L 80 x W 45
H 3 1/8" x L 3 1/8" x W 1 3/4"

CODICE PART NUMBER	VOLT	PROTEZIONE PROTECTION	DIMENSIONI DIMENSIONS mm	FORO HOLE mm	CONNESSIONE CONNECTION
M137-020-15	12/24	IP67	80 x 80 x 46	Ø 70	RJ45

IT Il pannello di controllo per fischi elettronici viene utilizzato per operare dalla cabina. Grazie alla scheda elettronica contenuta nel pannello di controllo i tempi di installazione del fischio elettronico sono notevolmente ridotti. Con un microprocessore integrato vengono raccolte in un solo cavo RJ45 tutte le funzioni disponibili del fischio: tromba, segnale da nebbia, entrata VHF e connessione microfonica. La scheda elettronica è contenuta in una scatola impermeabile con possibilità di incasso.

DE Das Kontrollpaneel für elektronische Schallsignalanlagen wird in der Kabine angebracht. Dank der elektronischen Einheit, die ebenfalls hier eingebaut ist, wird die Installationszeit erheblich reduziert. Der integrierte Mikroprozessor überträgt auf ein einziges RJ45-Kabel alle Funktionen der Schallsignalanlage: Horn, automatisches Signal bei Nebel, VHF-Eingang. Die elektronische Einheit, mit möglichen Mikrofonanschluss, ist in einer wasserdichten Hülle montiert und kann eingelassen werden.

FR Le tableau de commande des sifflets électroniques est étudié pour montage dans la cabine. La carte électronique contenue dans le tableau de commande permet de réduire les temps d'installation du sifflet électronique. Par l'utilisation d'un microprocesseur intégré toutes les fonctions disponibles du sifflet sont réunies dans un seul câble RJ45: avertisseur, signal automatique de brouillard, entrée VHF et connexion au microphone. La carte électronique est contenue dans une boite étanche avec possibilité d'encastrement.

EN The control panel has been designed to operate the electronic horns from the cabin. The installation time of the whistle is reduced thanks to the integrated microprocessor electronic card which transmits through only one RJ45 cable all the available functions to the whistle: horn, fog signal, aux input and microphone connection. The electronic card is contained in a waterproof box with built-in option.

ES El panel de control para bocinas electrónicas es empleado para operar desde la cabina. Gracias a la ficha electrónica contenida en el panel los tiempos de instalación de la bocina son notablemente reducidos. El microprocesor integrado transmite a un solo cable RJ45 todas las funciones disponibles: bocina, señal de niebla, entrada VHF y conexión de micrófono. La ficha electrónica está contenida en una caja impermeable y es empotrable.

PT O painel de controle para buzinas electrónicas está concebido para operar desde a cabina. Graças à ficha electrónica situada no painel os tempos de instalação da buzina são notavelmente reduzidos. O microprocessador integrado transmite num só cabo RJ45 todas as funções disponíveis: buzina, sinal para nevoeiro, entrada VHF e conexão do microfone. A ficha electrónica está montada numa caixa impermeável e é também de encaixe.

MICROPHONES

MIC1



▪ For EW/EMH Electronic Horns

TIPO TYPE	CODICE PART NUMBER	PROTEZIONE PROTECTION	CONNESSIONE CONNECTION
MIC1	M137-030-10	IP67	3 PINS

MIC2



▪ For EW Approved Horns

TIPO TYPE	CODICE PART NUMBER	PROTEZIONE PROTECTION	CONNESSIONE CONNECTION
MIC2	M137-032-10	IP55	4 PINS



IT Tromba a gas con attacco a scatto. Completa di bombola monoblocco in alluminio. Disponibile in tre versioni:
- **200 ml** con gas ecologico infiammabile
- **200 ml** con gas HFO-1234ze - **conforme alla direttiva europea n. 517/2014**
- **400 ml** con gas HFO-1234ze - **conforme alla direttiva europea n. 517/2014.**

DE Horn mit aufsteckbarem Trichter. Mit Gasflasche FCKW frei in drei Versionen erhältlich:
- **200 ml** mit entflammbarem Gas
- **200 ml** mit Gas HFO-1234ze - **gemäß der europäischen Richtlinie Nr. 517/2014**
- **400 ml** mit Gas HFO-1234ze - **gemäß der europäischen Richtlinie Nr. 517/2014.**

FR Corne de brume avec branchement à pression. Fourni de bouteille monobloc en aluminium disponible en trois versions:
- **200 ml** avec gaz écologique inflammable
- **200 ml** avec gaz HFO-1234ze - **en accord avec le règlement européen n. 517/2014**
- **400 ml** avec gaz HFO-1234ze - **en accord avec le règlement européen n. 517/2014.**

EN Hand held gas horn, snap-on type, complete with aluminium bottle. Available in three versions:
- **200 ml** with environmentally safe inflammable gas
- **200 ml** with gas HFO-1234ze - **in agreement with the European directive nr 517/2014**
- **400 ml** with gas HFO-1234ze - **in agreement with the European directive nr 517/2014.**

ES Bocina de mano con conexión a presión. Provista de botella monobloque en aluminio. Disponible en tres versiones:
- **200 ml** con gas ecologico inflamable
- **200 ml** con gas HFO-1234ze - **de acuerdo con la regulación europea n°517/2014**
- **400 ml** con gas HFO-1234ze - **de acuerdo con la regulación europea n°517/2014.**

PT Buzina de mão com montagem a pressão. Equipada com garrafa monobloco em alumínio. Disponível em três versões:
- **200 ml** com gás ecológico inflamável
- **200 ml** com gás HFO-1234ze - **em conformidade com o regulamento europeu n°517/2014**
- **400 ml** com gás HFO-1234ze - **em conformidade com o regulamento europeu n°517/2014.**

TA1

▪ Inflammable gas



200 ml

CODICE PART NUMBER	ml	dB (A) (1m)	Hz	kg	LUNGHEZZA LENGTH mm	IMBALLO PACKING
M130-060-20	200	122	400	0,32	190	Blister

TA1B

▪ Refill



200 ml

CODICE PART NUMBER	ml	kg	PEZZI PCS.
M130-100-00	200	0,25	1

TA1-H

▪ Not inflammable

MEETS EEC 517/2014 HFC FREE

HFO-1234ze



200 ml

CODICE PART NUMBER	ml	dB (A) (1m)	Hz	kg	LUNGHEZZA LENGTH mm	IMBALLO PACKING
M130-066-20	200	122	400	0,32	190	Blister

TA1B-H

▪ Refill



200 ml

CODICE PART NUMBER	ml	kg	PEZZI PCS.
M130-106-00	200	0,25	1

CTA1

▪ Snap-on trumpet



CODICE PART NUMBER	Hz	kg	LUNGHEZZA LENGTH mm
M130-080-00	400	0,07	190

APPROVED GAS HORNS

TA1R

▪ For vessels 12-50 m



Features

- **NOT INFLAMMABLE GAS**
- Stainless steel base
- 400 ml
- Approved for vessels 12-50 m

CODICE PART NUMBER	ml	dB (A) (1m)	Hz	kg	LUNGHEZZA LENGTH mm	IMBALLO PACKING	Pcs. x carton
M152-041-00	**400**	122	400	0,6	190	Bag	12

IT Tromba a gas per imbarcazioni da diporto di lunghezza compresa tra i 12 e i 50 m. Cornetto in plastica, base con fondello in acciaio inox e bombola da 400 ml contenente gas HFO-1234ze - **conforme alla direttiva europea n. 517/2014.**

DE Horn mit 400 ml Gasflasche für Boote von 12 bis 50 m Länge. Trichter aus Plastik mit Basis aus Edelstahl. Nicht entflammbares Gas HFO-1234ze - **gemäß der europäischen Richtlinie Nr. 517/2014.**

FR Corne de brume avec cornet en plastique, base avec culot en acier inoxydable et bouteille de 400 ml contenant gaz HFO-1234ze - **en accord avec le règlement européen n. 517/2014**.

EN Gas horn complete with plastic trumpet with stainless steel base and 400 ml bottle containing non-inflammable gas HFO-1234ze - **in agreement with the European directive nr 517/2014.**

ES Bocina de mano provista de corneta de plástico con base en acero inox y botella de 400 ml que contiene gas HFO-1234ze - **de acuerdo con la regulación europea n°517/2014.**

PT Buzina de mão equipada com corneta de plástico com base em aço inoxidável, garrafa de 400 ml que contém gás HFO-1234ze - **em conformidade com o regulamento europeu n°517/2014.**

TA1X

▪ For vessels up to 12 m



Features

- **NOT INFLAMMABLE GAS**
- Stainless steel base
- 200 ml
- Approved for vessels up to 12 m

CODICE PART NUMBER	ml	dB (A) (1m)	Hz	kg	LUNGHEZZA LENGTH mm	IMBALLO PACKING	Pcs. x carton
M130-063-20	**200**	122	400	0,47	190	Blister	24

IT Tromba a gas disegnata appositamente per l'impiego su imbarcazioni da diporto di lunghezza fino ai 12 m, conforme al D.M. 421/90. Cornetto in plastica, base con fondello in acciaio inox e bombola da 200 ml contenente gas gas HFO-1234ze - **conforme alla direttiva europea n. 517/2014**.

DE Horn mit 200 ml Gasflasche für Boote bis 12 m Länge. Trichter aus Plastik mit Basis aus Edelstahl. Gas HFO-1234ze - **gemäß der europäischen Richtlinie Nr. 517/2014**.

FR Corne de brume avec cornet en plastique, base avec culot en acier inoxydable et bouteille de 200 ml contenant gaz HFO-1234ze - **en accord avec le règlement européen n. 517/2014**.

EN Gas horn, complete with plastic trumpet with stainless steel bottom plate and 200 ml bottle containing gas HFO-1234ze - **in agreement with the European directive nr 517/2014**.

ES Bocina de mano provista de corneta de plástico con base de acero inoxidable, botella de 200 ml que contiene gas HFO-1234ze - **de acuerdo con la regulación europea n°517/2014**.

PT Buzina de mão equipada com corneta de plástico com base de aço inoxidável, garrafa de 200 ml que contém gás HFO-1234ze - **em conformidade com o regulamento europeu n°517/2014**.



IT Trombe elettriche singole o in coppia sia per montaggio esterno, con possibilità di cavo a scomparsa (serie EMX-DUCK HORN), che per installazione ad incasso (SERIE SM1). Gruppo sonoro di elevata potenza, costruito in materiale anticorrosione e accuratamente protetto.
Disponibili nelle versioni:
- cromata resistente alla salsedine (MT1-H – MT1-L –MT2-SK1/C-SM1C)
- ASA bianco resistente agli UV (SK1-SM1)
- ottone verniciato (TCE)
- acciaio inox (EM1-EM2-EM1/2-EMX1-EMX2-EMX1/2-DUCK HORN)
- ABS nero (BK1-BK2).

DE Elektromagnetisches Horn, als Einzel- oder Doppelausführung Elektrische Hörner, in Einzel- oder Doppelausführung, sowohl für externe Montage mit Möglichkeit von verborgenen Kabeln (Serie EMX-DUCK HORN), als auch für Einbaumontage (Serie SM1). Die starke sorgfältig geschützte Klanggruppe ist aus antikorrosivem Material hergestellt.
Verfügbare Versionen:
- Verchromt, Salzigkeit beständig (Serie MT1–MT2-SK1/C-SM1C)
- Weiß ASA, UV-Strahlen beständig (SK1-SM1)
- Lackiertem Messing (TCE)
- Edelstahl (Serie EM – EMX – DUK HORN)
- Schwarz ABS (BK1-BK2).

FR Avertisseurs électriques, seuls ou doubles, soit pour montage externe, avec option du câble caché, soit pour montage à encastrer. Ensemble sonore très puissant et soigneusement protégé, construit avec matériel anticorrosion. Disponibles dans les versions:
- Chromés, résistantes à la salure (MT1-H – MT1-L –MT2-SK1/C-SM1C)
- ASA blanc, résistantes aux rayons UV (SK1-SM1)
- Laiton vernissé (TCE)
- Acier inox (EM1-EM2-EM1/2-EMX1-EMX2-EMX1/2-DUCK HORN)
- ABS noir (BK1-BK2).

EN Electric horns, single or double, both for external mounting, with option of integrated cable, and for built-in installation. Powerful acoustic unit carefully protected and manufactured of non-corrosive materials. Available in the following versions:
- Chromed, salt-resistant (MT1-H – MT1-L –MT2-SK1/C-SM1C)
- White ASA, UV-rays resistant (SK1-SM1)
- Painted brass (TCE)
- Stainless steel (EM1-EM2-EM1/2-EMX1-EMX2-EMX1/2-DUCK HORN)
- Black ABS (BK1-BK2).

ES Bocinas eléctricas, únicas o dobles, sea para montaje exterior, con opción de cable escondido, sea para empotrar. Unidad sonora de elevada potencia, muy bien protegida y construida en material anticorrosivo. Disponibles en las siguientes versiones:
- Cromadas, resistentes a la salinidad (MT1-H – MT1-L –MT2-SK1/C-SM1C)
- ASA blanco, resistentes a los rayos UV (SK1-SM1)
- Latón pintado (TCE)
- Acero inoxidable (EM1-EM2-EM1/2-EMX1-EMX2-EMX1/2-DUCK HORN)
- ABS negro (BK1-BK2).

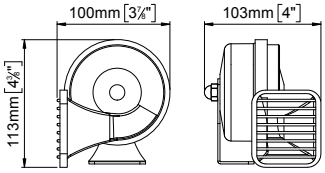
PT Buzinas eléctricas, únicas ou duplas, seja para montagem externo, com opção de cabo escondido, seja para montagem de encaixe. Unidade sonora de elevada potencia, cuidadosamente protegida e fabricada com materiais anticorrosivos. Disponíveis nas seguintes versões:
- cromadas, resistentes à salinidade (MT1-H – MT1-L –MT2-SK1/C-SM1C)
- ASA branco, resistentes aos raios UV (SK1-SM1)
- Latão envernizado (TCE)
- Aço inoxidável (EM1-EM2-EM1/2-EMX1-EMX2-EMX1/2-DUCK HORN)
- ABS negro (BK1-BK2).

ELECTRIC HORNS

MT1-H



12V
24V



H 113 x L 100 x W 103 mm
H 4 3/8" x L 3 7/8" x W 4"

Features

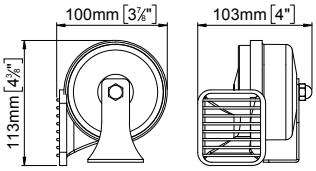
- High tone
- Chrome plated

CODICE PART NUMBER	VOLT	AMP.	dB (A) (1m)	Hz	IMBALLO PACKING	Pcs. x carton
M132-000-12	12	5	114	490	Box	40
M132-000-13	24	3,5	114	490	Box	40

MT1-L



12V
24V



H 113 x L 100 x W 103 mm
H 4 3/8" x L 3 7/8" x W 4"

Features

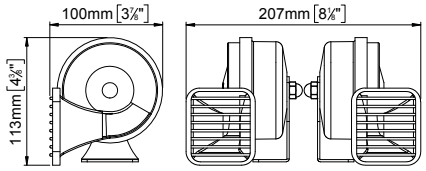
- Low tone
- Chrome plated

CODICE PART NUMBER	VOLT	AMP.	dB (A) (1m)	Hz	IMBALLO PACKING	Pcs. x carton
M132-001-12	12	5	114	410	Box	40
M132-001-13	24	3,5	114	410	Box	40

MT2



12V
24V



H 113 x L 100 x W 207 mm
H 4 3/8" x L 3 7/8" x W 8 1/8"

Features

- Two tuned sounds
- Chrome plated

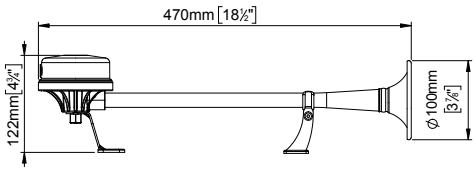
CODICE PART NUMBER	VOLT	AMP.	dB (A) (1m)	Hz	IMBALLO PACKING	Pcs. x carton
M132-020-12	12	10	116	410/490	Box	20
M132-020-13	24	7	116	410/490	Box	20

EM1



12V
24V

NMMA TYPE ACCEPTED



H 122 x L 470 x W 100 mm
H 4 3/4" x L 18 1/2" x W 3 7/8"

Features

- Low tone
- Stainless steel trumpet
- NMMA Approved

CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-041-12	12	470	118	320	5	Box	20
M132-041-13	24	470	118	320	4	Box	20

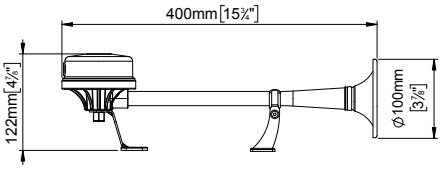
EM2



12V
24V

Features

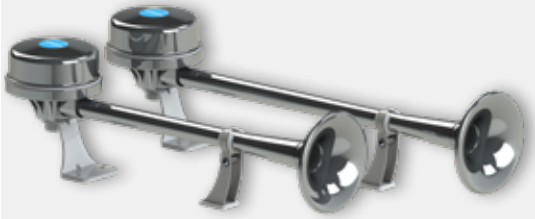
- High tone
- Stainless steel trumpet



H 122 x L 400 x W 100 mm
H 4 7/8" x L 15 3/4" x W 3 7/8"

CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-040-12	12	400	118	370	5	Box	20
M132-040-13	24	400	118	370	4	Box	20

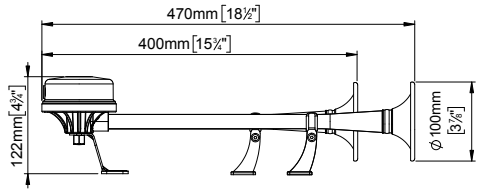
EM1/2



12V
24V

Features

- Two tuned sounds
- Stainless steel trumpet



H 122 x L 470 x W 100 mm
H 4 3/4" x L 18 1/2" x W 3 7/8"

CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-060-12	12	400/470	121	370/320	10	Box	6
M132-060-13	24	400/470	121	370/320	8	Box	6

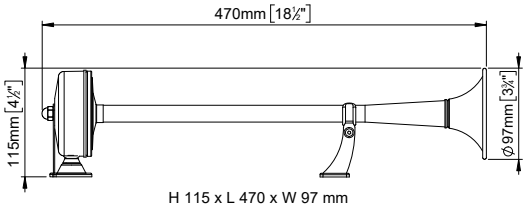
EMX1



12V
24V

Features

- Low tone
- Hidden cable
- Completely stainless steel



H 115 x L 470 x W 97 mm
H 4 1/2" x L 18 1/2" x W 3 3/4"

CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-043-12	12	470	112	340	6	Box	20
M132-043-13	24	470	112	340	3	Box	20

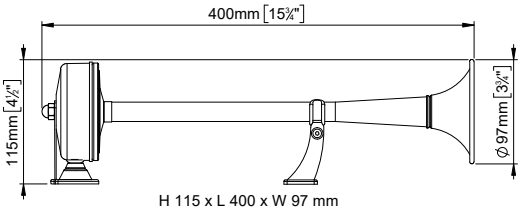
EMX2



12V
24V

Features

- High tone
- Hidden cable
- Completely stainless steel



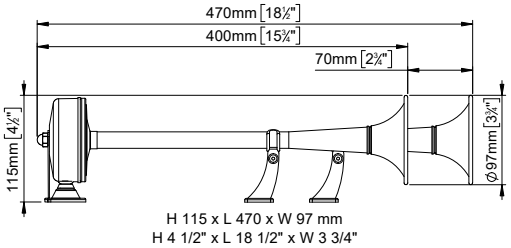
H 115 x L 400 x W 97 mm
H 4 1/2" x L 15 3/4" x W 3 3/4"

CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-042-12	12	400	112	370	6	Box	20
M132-042-13	24	400	112	370	3	Box	20

EMX1/2



12V
24V



H 115 x L 470 x W 97 mm
H 4 1/2" x L 18 1/2" x W 3 3/4"

Features

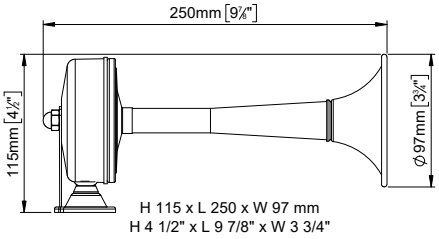
- Two tuned sounds
- Hidden cable
- Completely stainless steel
- NMMA Approved

CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-061-12	12	400/470	114	370/340	12	Box	6
M132-061-13	24	400/470	114	370/340	6	Box	6

DUCK



12V



H 115 x L 250 x W 97 mm
H 4 1/2" x L 9 7/8" x W 3 3/4"

Features

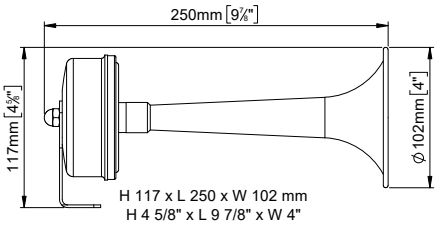
- Hidden cable
- Completely stainless steel

CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-140-12	12	250	114	570	5	Box	12

TCE



12V
24V



H 117 x L 250 x W 102 mm
H 4 5/8" x L 9 7/8" x W 4"

Features

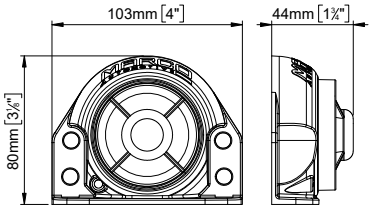
- White painted brass trumpet

CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-120-12	12	250	114	570	5	Box	12
M132-120-13	24	250	114	570	4	Box	12

BK1 BK2



6÷100V
9÷28V



80 x 103 x 44 mm
3 1/8" x 4" x 1 3/4"

Features

- Intermittent sound alarm for signaling on board
- IP67
- Electronic

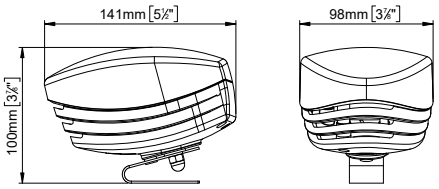
CODICE PART NUMBER	VOLT	DIMENSIONI DIMENSIONS mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M104-120-15	6÷100	80 x 103 x 44	85/95	950/1850	0,1 - 0,3	Box	42
M104-121-15	9÷28	80 x 103 x 44	100	1850	0,5	Box	42

SK1

SHARK



12V



H 100 x L 141 x W 98
H 3 7/8" x L 5 1/2" x W 3 7/8"

Features

- Stainless steel bracket
- Draining holes
- UV resistant
- White ASA

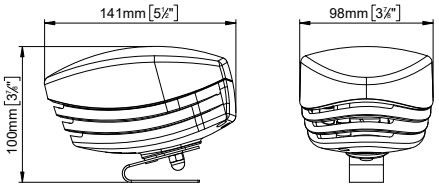
CODICE PART NUMBER	VOLT	DIMENSIONI DIMENSIONS mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-081-22	12	100 x 141 x 98	108	400	5	Blister	12

SK1/C

SHARK



12V



H 100 x L 141 x W 98
H 3 7/8" x L 5 1/2" x W 3 7/8"

Features

- Stainless steel bracket
- Draining holes
- Chromed ASA

CODICE PART NUMBER	VOLT	DIMENSIONI DIMENSIONS mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-082-22	12	100 x 141 x 98	108	400	5	Blister	12

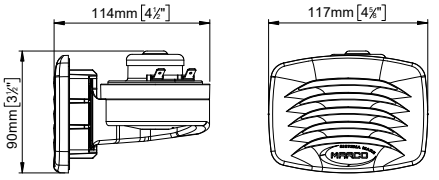
SM1

smile



NMMA TYPE ACCEPTED

12V



H 90 x L 114 x W 117
H 3 1/2" x L 4 1/2" x W 4 5/8"

Features

- Built-in quick fitting
- UV resistant
- White ASA
- NMMA Approved

CODICE PART NUMBER	VOLT	DIMENSIONI DIMENSIONS mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-101-22	12	90 x 114 x 117	108	400	5	Blister	12

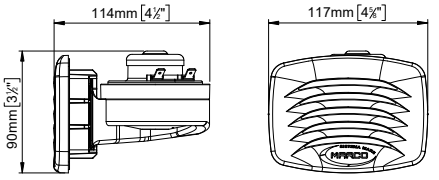
SM1/C

smile



NMMA TYPE ACCEPTED

12V



H 90 x L 114 x W 117
H 3 1/2" x L 4 1/2" x W 4 5/8"

Features

- Built-in quick fitting
- UV resistant
- Chromed ASA
- NMMA Approved

CODICE PART NUMBER	VOLT	DIMENSIONI DIMENSIONS mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-102-22	12	90 x 114 x 117	108	400	5	Blister	12

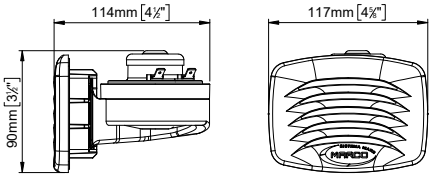
SM1/B

smile



NMMA TYPE ACCEPTED

12V



H 90 x L 114 x W 117
H 3 1/2" x L 4 1/2" x W 4 5/8"

Features

- Built-in quick fitting
- UV resistant
- Black ASA
- NMMA Approved

CODICE PART NUMBER	VOLT	DIMENSIONI DIMENSIONS mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M132-103-22	12	90 x 114 x 117	108	400	5	Blister	12



IT Trombe elettropneumatiche con eccezionale potenza sonora disponibili nelle versioni:
- singola (MA1C-MA1S-TC1-TC1/P);
- bitonale (RIM-N/ TT2-M);
- ad incasso con compressore integrato (HR1-HR1/C).

Cornetto disponibile in: - ABS bianco o cromato; - ottone cromato; - ottone verniciato bianco.
Le griglie per versione ad incasso sono in ASA bianco o cromato.
Complete di compressore rinforzato, kit di montaggio, relè.

DE Elektropneumatische Hörner mit sehr starkem Klang, in folgenden Versionen erhältlich:
- Einzelhorn (MA1C-MA1S-TC1-TC1/P);
- Zweiton-Horn (RIM-N/ TT2-M);
- Einbautyp mit integriertem Kompressor (HR1-HR1/C).

Trichter aus: - weißem oder verchromtem ABS; - verchromtem Messing; - weiß lackiertem Messing.
Die Schutzgitter für die Einbauversion sind aus weißem oder verchromtem ASA.
Komplett mit verstärktem Kompressor, Montagekit und Relais.

FR Avertisseurs électropneumatiques avec un son très puissant, disponibles dans les versions suivantes :
- Seuls (MA1C-MA1S-TC1-TC1/P);
- Bitonal (RIM-N/ TT2-M);
- A' encastrer avec compresseur intégré (HR1-HR1/C).

Cornet disponible en: ABS blanc ou chromé, laiton chromé, laiton peint en blanc.
Les grilles pour les versions à encastrer sont en ASA blanc ou chromé.
Complètes avec compresseur, kit de montage, relais .

EN Electro-pneumatic horns with very powerful sound, available in the following versions:
- Single (MA1C-MA1S-TC1-TC1/P);
- Two-tone (RIM-N/ TT2-M);
- Built-in type with integrated compressor (HR1-HR1/C).

Trumpet in white or chromed ABS; - chromed brass ; - white-painted brass.
The grilles for the built-in types are in white or chromed ASA.
Complete with reinforced compressor, mounting kit, and relay.

ES Bocinas electro-neumáticas con sonido muy potente, disponibles en las siguientes versiones:
- Únicas (MA1C-MA1S-TC1-TC1/P);
- Bitonales (RIM-N/ TT2-M);
- Para empotrar, con compresor integrado (HR1-HR1/C).

Corneta disponible en : ABS blanco o cromado, latón cromado, latón pintado en blanco.
Las rejillas para las versiones empotradas son de ASA blanco o cromado.
Completas con compresor, kit de montaje, relé.

PT Buzinas electropneumáticas com sonido muito potente, disponíveis nas seguintes versões:
- Únicas (MA1C-MA1S-TC1-TC1/P);
- Bitonales (RIM-N/ TT2-M);
- De encaixe, com compressor integrado (HR1-HR1/C).

Corneta disponível em: - ABS branco ou cromado; - latão cromado; - latão pintado de branco.
As grelhas para as versões de encaixe são de ASA branco ou cromado.
Completas com compressor, kit de montagem, relé.

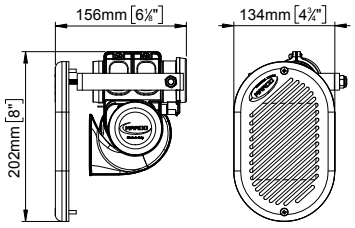
HR1

HURRICANE



12V
24V

NMMA TYPE ACCEPTED



H 202 x L 156 x W 134
H 8" x L 6 1/8" x W 4 3/4"

Features

- Built-in quick fitting
- White ASA grille
- Integrated compressor
- NMMA Approved

CODICE PART NUMBER	VOLT	dB (A) (1m)	Hz	AMP.	DIMENSIONI DIMENSIONS mm	IMBALLO PACKING	Pcs. x carton
M134-080-12	12	120	300	20	202 x 156 x 120	Blister	12
M134-080-13	24	120	300	11	202 x 156 x 120	Blister	12

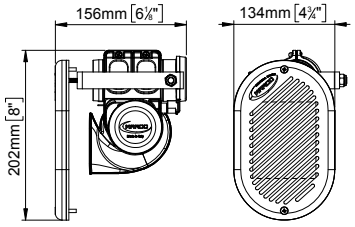
HR1/C

HURRICANE



12V
24V

NMMA TYPE ACCEPTED



H 202 x L 156 x W 134
H 8" x L 6 1/8" x W 4 3/4"

Features

- Built-in quick fitting
- Chromed grille
- Integrated compressor
- NMMA Approved

CODICE PART NUMBER	VOLT	dB (A) (1m)	Hz	AMP.	DIMENSIONI DIMENSIONS mm	IMBALLO PACKING	Pcs. x carton
M134-081-12	12	120	300	20	202 x 156 x 120	Blister	12
M134-081-13	24	120	300	11	202 x 156 x 120	Blister	12

HR1/B

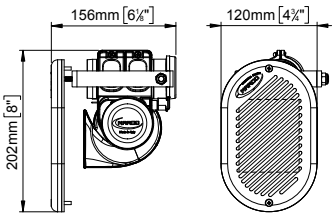
NEW

HURRICANE



12V
24V

NMMA TYPE ACCEPTED



H 202 x L 156 x W 120
H 8" x L 6 1/8" x W 4 3/4"

Features

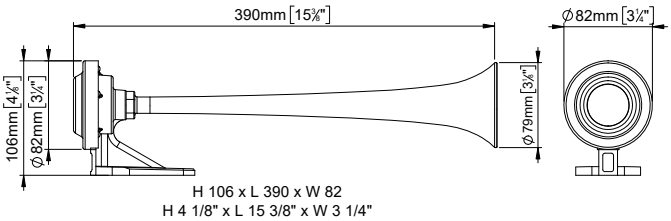
- Built-in quick fitting
- Black ASA grille
- Integrated compressor
- NMMA Approved

CODICE PART NUMBER	VOLTS	AMP.	Hz	dB (A) (1m)	IMBALLO PACKING	Pcs. x carton
M134-082-12	12	20	300	120	Blister	12
M134-082-13	24	11	300	120	Blister	12

MA1-C



12V
24V



H 106 x L 390 x W 82
H 4 1/8" x L 15 3/8" x W 3 1/4"

Features

- Chromed plastic trumpet
- Compressor included

CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M134-000-12	12	390	114	326	20	Box	16
M134-000-13	24	390	114	326	11	Box	16

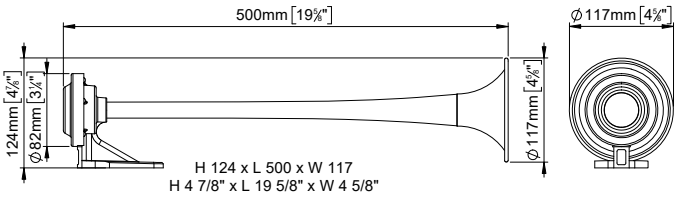
MA1-S



12V
24V

Features

- Chromed brass trumpet
- Compressor included



CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M134-001-12	12	500	117	228	20	Box	12
M134-001-13	24	500	117	228	11	Box	12

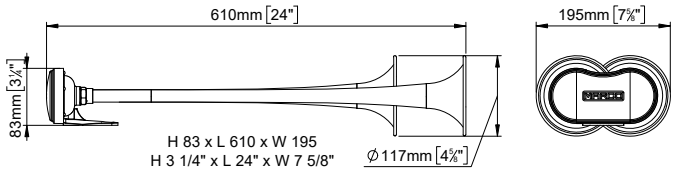
RIM-N



12V
24V

Features

- Chromed brass trumpet
- Compressor included
- One tuned sound
- NMMA Approved



CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M134-020-12	12	610	111	177/218	26	Box	5
M134-020-13	24	610	111	177/218	13	Box	5

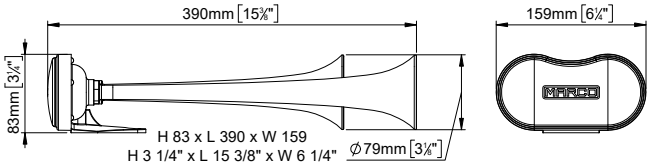
TT2-M



12V
24V

Features

- Plastic chromed horns
- Compressor included
- One tuned sound



CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M134-040-12	12	390	111	326/412	18	Box	12
M134-040-13	24	390	111	326/412	9	Box	12

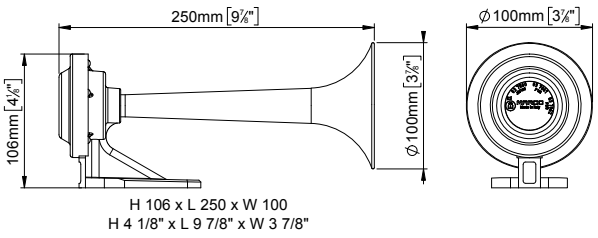
TC1/P



12V
24V

Features

- White ABS trumpet
- Compressor included

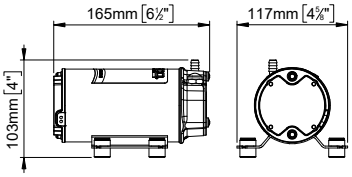


CODICE PART NUMBER	VOLT	LUNGHEZZA LENGTH mm	dB (A) (1m)	Hz	AMP.	IMBALLO PACKING	Pcs. x carton
M134-061-12	12	250	116	420	16	Box	24
M134-061-13	24	250	116	420	8	Box	24

M1



12V
24V



H 103 x L 165 x W 117
H 4" x L 6 1/2" x W 4 5/8"

Features

- Oil free
- Continuous duty cycles
- Barb fitting
- Suitable for RIM

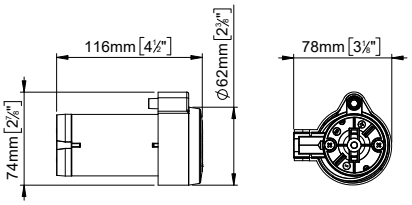
PRESSIONE PRESSURE max.
2 bar 29 psi

CODICE PART NUMBER	VOLTS	MOTORE MOTOR	CORPO BODY	ROTORE ROTOR	DIMENSIONI DIMENSIONS mm	PESO WEIGHT
M135-000-12	12	240W	Alluminio Aluminum	Alluminio Aluminum	103 x 165 x 117	2,4 kg
M135-000-13	24	240W	Alluminio Aluminum	Alluminio Aluminum	103 x 165 x 117	2,4 kg

M2



12V
24V



H 74 x L 116 x W 78
H 2 7/8" x L 4 1/2" x W 3 1/8"

Features

- Oil free
- R. 10 ECE-ONU

PRESSIONE PRESSURE max.
1 bar 14.5 psi

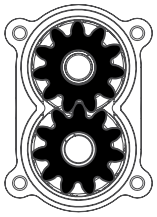
CODICE PART NUMBER	VOLTS	MOTORE MOTOR	CORPO BODY	ROTORE ROTOR	DIMENSIONI DIMENSIONS mm	PESO WEIGHT
M113-100-02	12	240W	Alluminio Aluminum	POM	74 x 116 x 78	0,5 kg
M113-100-03	24	264W	Alluminio Aluminum	POM	74 x 116 x 78	0,5 kg

PEEK GEAR PUMPS

48V AVAILABLE
UPON REQUEST



PEEK GEARS





IT Elettropompe autoadescanti ad ingranaggi elicoidali in PEEK per travaso acqua e liquidi a bassa viscosità. Gli ingranaggi in PEEK garantiscono pressione costante, cicli di lavoro prolungati, maggiore silenziosità e ottima resistenza ad agenti chimici. Corpo in ottone nichelato, albero in acciaio inossidabile e tenuta in FKM se non diversamente specificato. Disponibili in versioni con filtro in linea, valvola di non ritorno, pressostato meccanico, sensore di pressione elettronico e kit per applicazioni varie.

DE Selbstansaugende Elektropumpen mit PEEK-Schrägzahnrädern. Die PEEK-Zahnräder garantieren für einen konstanten Druck, für verlängerte Arbeitszyklen, Chemikalienresistenz und für verminderten Geräuschpegel. Gehäuse aus vernickeltem Messing, Spindel aus rostfreiem Stahl, Dichtung aus FKM, falls nicht anders angegeben. Modelle lieferbar mit In-Line-Filter, Rückschlagventil, mechanischem Druckwächter, elektronischem Drucksensor sowie Montageset für verschiedene Anwendungen.

FR Pompes électriques auto amorçantes avec des engrenages hélicoïdaux de PEEK pour le transfert de l'eau et des liquides à faible viscosité. Les engrenages en PEEK garantissent une pression constante, long cycles de travail, moins de bruit et une excellente résistance aux produits chimiques. Corps en laiton nickelé, arbre en acier inoxydable et joint en FKM, sauf indication contraire. Disponibles dans les versions avec filtre en ligne, clapet anti-retour, interrupteur de pression mécanique, capteur de pression électronique et des kits pour applications différentes.

EN Self priming electric pumps with helical PEEK gears for the transfer of water and liquids with low viscosity. The PEEK gears guarantee constant pressure, heavy-duty cycles, lower noise levels and excellent resistance to chemicals. Nickel-plated brass body, stainless steel shaft and FKM seal unless otherwise specified. Available in versions with in-line filter, integrated check valve, mechanical pressure switch, electronic pressure sensor and kits for various applications.

ES Bombas eléctricas auto-cebadas con engranajes helicoidales en PEEK para la transferencia de agua y líquidos de baja viscosidad. Los engranajes de PEEK garantizan una presión constante, largos ciclos de trabajo, niveles de ruido reducidos y una excelente resistencia a los productos químicos. Cuerpo en latón niquelado, eje de acero inoxidable y junta de FKM si no diferentemente especificado. Disponible en versiones con filtro en línea, válvula de retención, interruptor de presión mecánico, sensor de presión electrónico y kits para diversas aplicaciones.

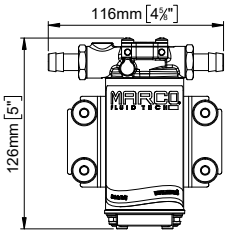
PT Bombas com engrenagens helicoidais em PEEK para a trasfega de água e líquidos de baixa viscosidade. As engrenagens de PEEK garantem uma pressão constante, longos ciclos de trabalho, baixos níveis de ruído e excelente resistência aos produtos químicos. Corpo em latão niquelado, eixo em aço inox e junta em FKM salvo indicação diferente. Disponíveis em versões com filtro em linha, válvula anti-retorno, interruptor de pressão mecânico, sensor de pressão eletrónico e kits para várias aplicações.

PEEK GEARS — 12V and 24V - DC

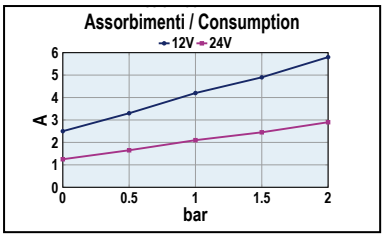
UP2-P

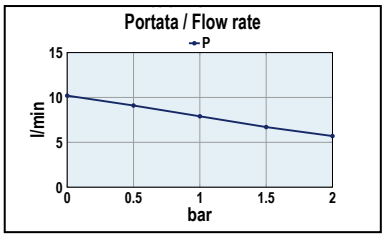


12V
24V



H 126 x L 116 x W 76
H 5" x L 4 5/8" x W 3"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	1,5 bar 21.8 psi

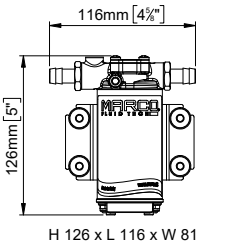
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-202-12	12	1,5	6A	90W	7,5A	12 mm	3/8" BSPP	1,2 kg
M164-202-13	24	1,5	3A	90W	5A	12 mm	3/8" BSPP	1,2 kg

UP2-PV

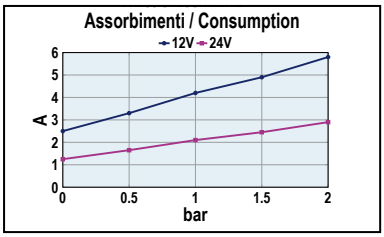
▪ Integrated check valve

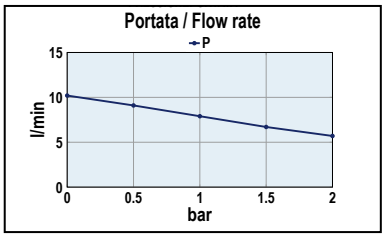


12V
24V



H 126 x L 116 x W 81
H 5" x L 4 5/8" x W 3 1/4"





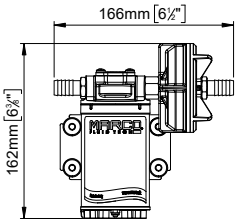
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	1,5 bar 21.8 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-204-12	12	1,5	6A	90W	7,5A	12 mm	3/8" BSPP	1,2 kg
M164-204-13	24	1,5	3A	90W	5A	12 mm	3/8" BSPP	1,2 kg

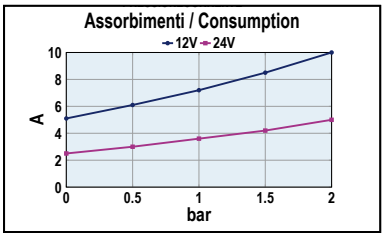
UP3-P

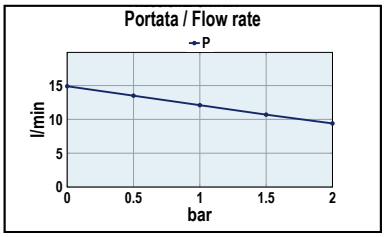


12V
24V



H 162 x L 166 x W 101 mm
H 6 3/8" x L 6 1/2" x W 4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	2 bar 29 psi

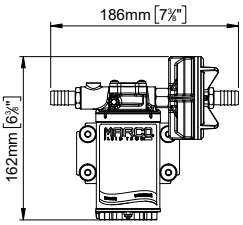
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-002-12	12	1,5	6A	120W	10A	13 mm	3/8" BSPP	1,6 kg
M164-002-13	24	1,5	3A	120W	5A	13 mm	3/8" BSPP	1,6 kg

UP3-PV

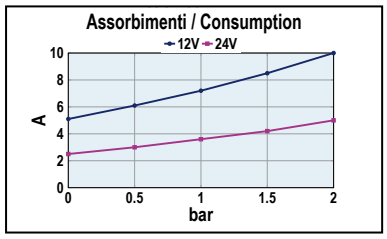
▪ Integrated check valve

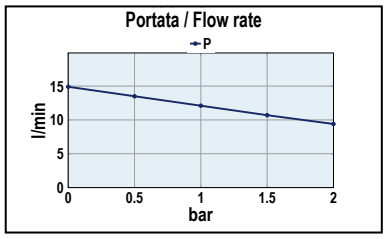


12V
24V



H 162 x L 186 x W 101
H 6 3/8" x L 7 3/8" x W 4"





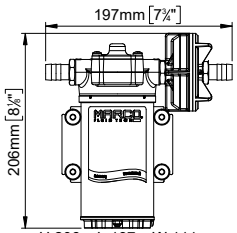
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-004-12	12	1,5	6A	120W	10A	13 mm	3/8" BSPP	1,6 kg
M164-004-13	24	1,5	3A	120W	5A	13 mm	3/8" BSPP	1,6 kg

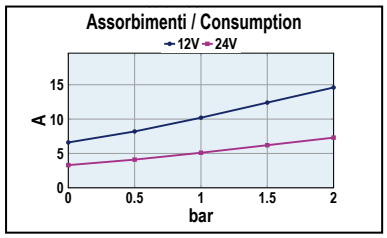
UP6-P

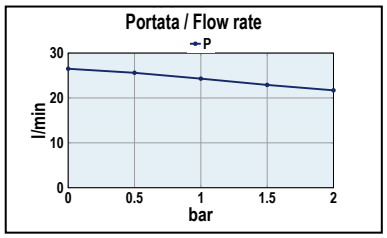


12V
24V



H 206 x L 197 x W 111
H 8 1/8" x L 7 3/4" x W 4 3/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
26 l/min 6.9 gpm	2 bar 29 psi

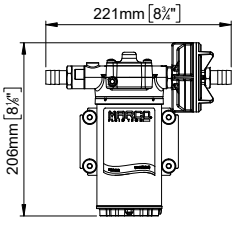
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-065-12	12	1,5	10A	180W	15A	16 mm	1/2" BSPP	3,1 kg
M164-065-13	24	1,5	5A	180W	7,5A	16 mm	1/2" BSPP	3,1 kg

UP6-PV

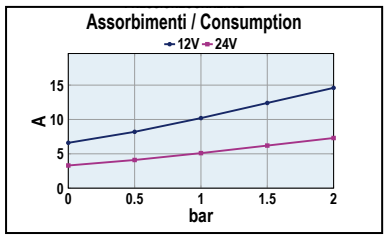
▪ Integrated check valve

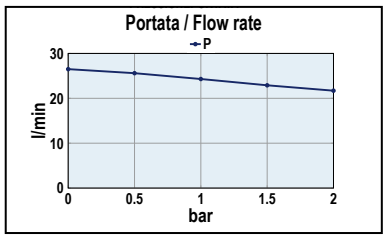


12V
24V



H 206 x L 221 x W 111
H 8 1/8" x L 8 3/4" x W 4 3/8"





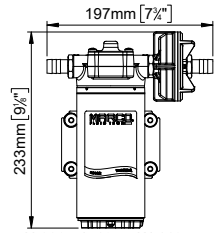
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
26 l/min 6.9 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-063-12	12	1,5	10A	180W	15A	16 mm	1/2" BSPP	3,4 kg
M164-063-13	24	1,5	5A	180W	7,5A	16 mm	1/2" BSPP	3,4 kg

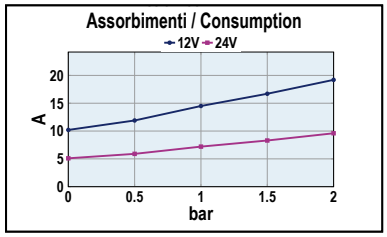
UP12-P

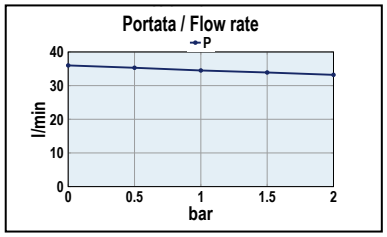


12V
24V



H 233 x L 197 x W 113
H 9 1/8" x L 7 3/4" x W 4 1/2"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
36 l/min 9.5 gpm	2 bar 29 psi

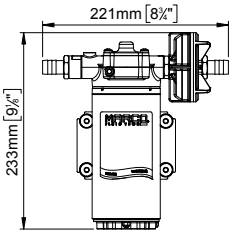
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-302-12	12	3	28A	360W	30A	16 mm	1/2" BSPP	4,3 kg
M164-302-13	24	3	14A	360W	20A	16 mm	1/2" BSPP	4,3 kg

UP12-PV

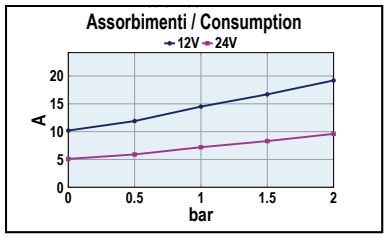
▪ Integrated check valve

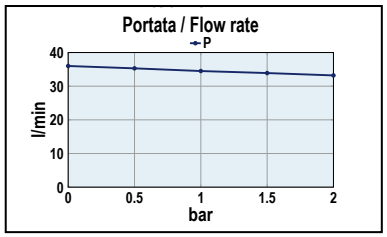


12V
24V



H 233 x L 221 x W 113
H 9 1/8" x L 8 3/4" x W 4 1/2"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
36 l/min 9.5 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-304-12	12	3	28A	360W	30A	16 mm	1/2" BSPP	4,3 kg
M164-304-13	24	3	14A	360W	20A	16 mm	1/2" BSPP	4,3 kg

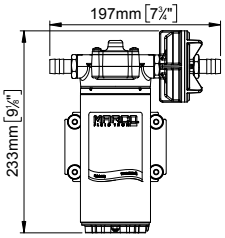
UP12-LP

▪ Ideal for continuous operations

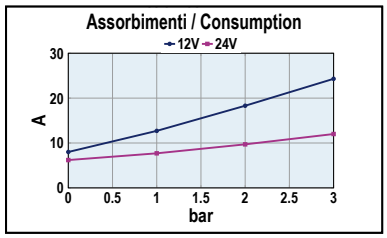
NEW

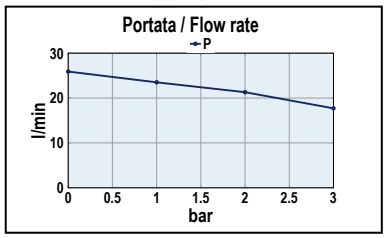


12V
24V



H 233 x L 197 x W 113
H 9 1/8" x L 7 3/4" x W 4 1/2"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
26 l/min 6.9 gpm	3 bar 43.5 psi

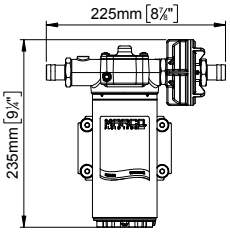
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-323-12	12	3	14A	360W	25A	16 mm	1/2" BSPP	4,5 kg
M164-323-13	24	3	7A	360W	15A	16 mm	1/2" BSPP	4,5 kg

UP14-P

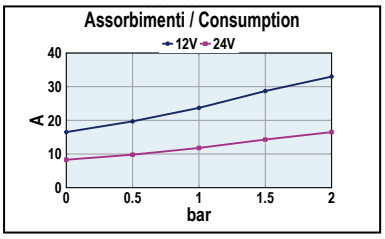
▪ High flow rate

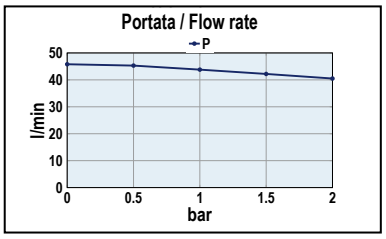


12V
24V



H 235 x L 225 x W 119
H 9 1/4" x L 8 7/8" x W 4 5/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
46 l/min 12.2 gpm	2 bar 29 psi

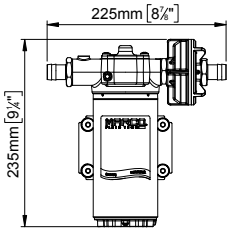
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-502-12	12	3	32A	400W	30A	19 mm	3/4" BSPP	5 kg
M164-502-13	24	3	16A	400W	20A	19 mm	3/4" BSPP	5 kg

UP14-PV

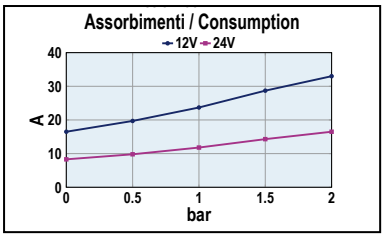
▪ Integrated check valve

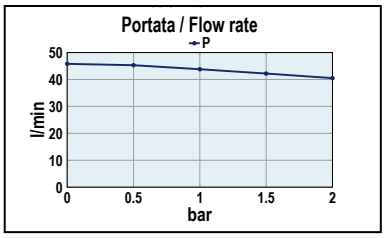


12V
24V



H 235 x L 225 x W 119
H 9 1/4" x L 8 7/8" x W 4 5/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
46 l/min 12.2 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-504-12	12	3	32A	400W	30A	19 mm	3/4" BSPP	5 kg
M164-504-13	24	3	16A	400W	20A	19 mm	3/4" BSPP	5 kg

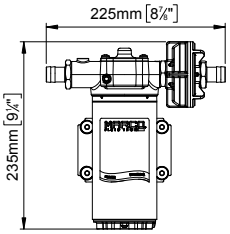
UP14-LP

▪ Ideal for continuous operations

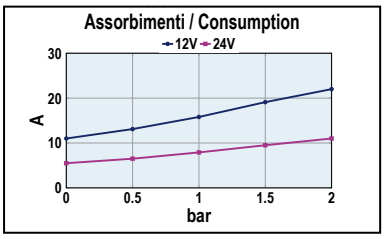
NEW

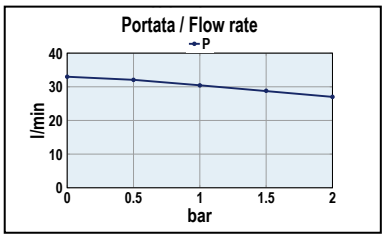


12V
24V



H 235 x L 225 x W 119
H 9 1/4" x L 8 7/8" x W 4 5/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
33 l/min 8.7 gpm	2 bar 29 psi

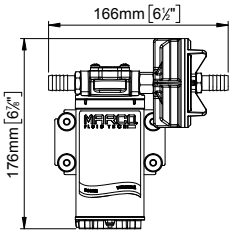
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-523-12	12	3	18A	300W	25	19 mm	3/4" BSPP	5 kg
M164-523-13	24	3	9,7A	300W	15	19 mm	3/4" BSPP	5 kg

UP8-P

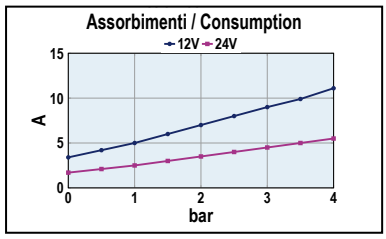
▪ Heavy duty ▪ Compact footprint

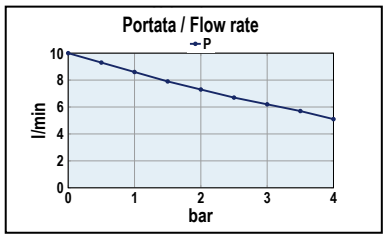


12V
24V



H 176 x L 166 x W 101 mm
H 6 7/8" x L 6 1/2" x W 4"





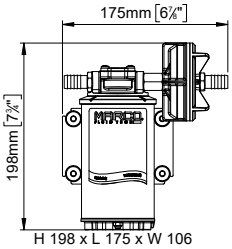
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	4 bar 58 psi HIGH PRESSURE

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-091-12	12	1,5	11A	150W	15A	13 mm	3/8" BSPP	1,8 kg
M164-091-13	24	1,5	5,5A	150W	7,5A	13 mm	3/8" BSPP	1,8 kg

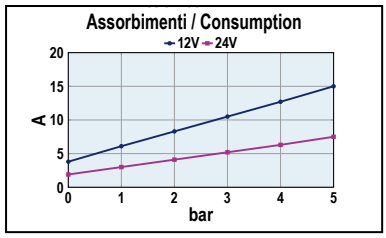
UP9-P

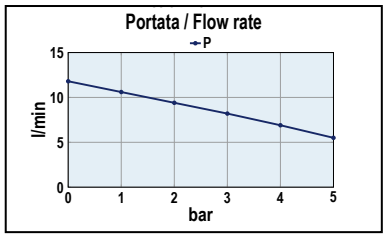


12V
24V



H 198 x L 175 x W 106
H 7 3/4" x L 6 7/8" x W 4 1/8"





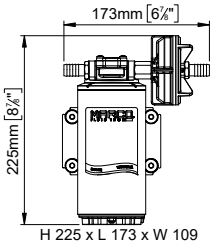
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
12 l/min 3.2 gpm	5 bar 72.5 psi HIGH PRESSURE

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-102-12	12	1,5	5A	180W	15A	13 mm	3/8" BSPP	2,7 kg
M164-102-13	24	1,5	3A	180W	7,5A	13 mm	3/8" BSPP	2,7 kg

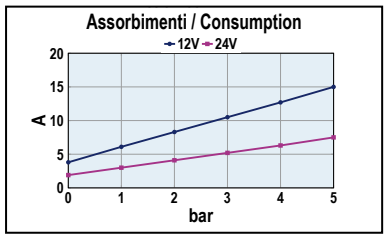
UP10-P

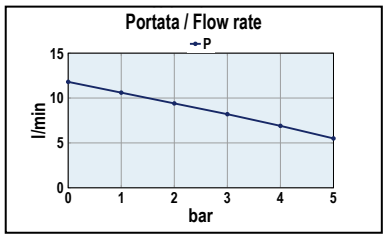


12V
24V



H 225 x L 173 x W 109
H 8 7/8" x L 6 7/8" x W 4 1/4"

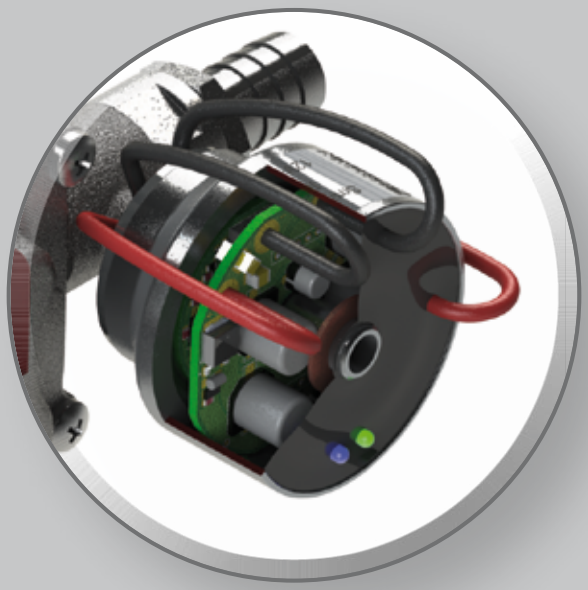




PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
18 l/min 4.8 gpm	5 bar 72.5 psi HIGH PRESSURE

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-402-12	12	3	11A	360W	25A	13 mm	3/8" BSPP	3,8 kg
M164-402-13	24	3	5A	360W	20A	13 mm	3/8" BSPP	3,8 kg

ELECTRONIC PRESSURE SENSOR



IT Il sensore di pressione elettronico regola la portata richiesta variando proporzionalmente i giri del motore e garantisce:

- Controllo costante di pressione, corrente e voltaggio
- Protezione della pompa da cortocircuiti e sovratensioni
- Arresto automatico in caso di fine liquido
- Riduzione dei disturbi elettrici grazie all'accelerazione graduale del motore
- Maggiore silenziosità
- Ottimizzazione dei consumi di corrente
- Minor usura dei componenti e maggior durata del sistema
- Segnalazioni operative tramite LED luminosi

EN The electronic pressure sensor controls the requested flow rate by proportionally adapting the speed of the motor and guarantees:

- Constant control of pressure, voltage and electrical draw
- Protection of the pump from short circuits and overvoltage
- Automatic stop in case of no liquid
- Reduction of electrical interferences thanks to the gradual acceleration of the motor
- Noise reduction during operation
- Optimization of electrical draw
- Reduced wear of components and increased life of the system
- Operative functions signaled by luminous LEDs

DE Der elektronische Drucksensor regelt die angeforderte Durchflussrate, indem er die Motordrehzahl anpasst und garantiert außerdem:

- Konstante Kontrolle von Druck, Strom und Spannung
- Sichert die Pumpe gegen Kurzschlüssen und Überströmen
- Automatische Stop-Funktion bei Flüssigkeitsmangel
- Verminderung der elektrischen Störungen dank der graduellen Steigerung des Motors
- Geräuschärmer
- Optimierung des Stromverbrauchs
- Reduzierung der mechanischen Verschleißteile und verlängerte Dauer des Systems
- Betriebsfunktionen werden anhand von LED-Leuchten angezeigt

FR Le capteur de pression électronique contrôle le débit demandé en adaptant proportionnellement la vitesse du moteur et garantit:

- Contrôle constant de pression, tension et tirage électrique
- Protection de la pompe contre les courts circuits et les surcharges
- Arrêt automatique en cas de fin du liquide
- Réduction des interférences électriques grâce à l'accélération progressive du moteur
- Réduction du bruit pendant le fonctionnement
- Optimisation du tirage électrique
- Réduction de l'usure des composants et durée de vie accrue du système
- Fonctions opérationnelles signalées par LEDs lumineuses

ES El sensor de presión electrónico controla el caudal requerido adaptando gradualmente la velocidad del motor y garantiza:

- Control constante de presión, corriente y voltaje
- Protección de la bomba contra cortocircuitos y sobretensiones
- Paro automático en caso de acabar el liquido
- Reducción de los disturbios eléctricos gracias a la aceleración gradual del motor
- Reducción del ruido durante el funcionamiento
- Optimización del consumo eléctrico
- Menor desgaste de los componentes y mayor duración de la vida del sistema
- Condiciones operativas señaladas por LEDs luminosos

PT O sensor de pressão eletrônico controla o fluxo desejado adaptando gradualmente a velocidade do motor e garante:

- Controle constante de pressão, corrente e tensão
- Proteção da bomba contra curtos-circuitos e sobretensões
- Paragem automática em caso do líquido acabar
- Redução das interferências elétricas graças à aceleração gradual do motor
- Redução de ruído durante o funcionamento
- Otimização do consumo de eletricidade
- Desgaste reduzido dos componentes e maior duração do sistema
- Condições de funcionamento indicadas pelos LEDs iluminados

PEEK GEAR PUMPS

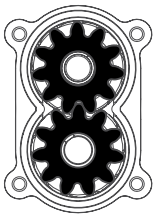
12V/24V Electronic Pressure Pumps

VIDEO www.marco.it

48V AVAILABLE
UPON REQUEST



PEEK GEARS





IT Elettropompe autoadescanti ad ingranaggi elicoidali in PEEK, tensione universale 12V/24V, valvola di non ritorno e sensore di pressione elettronico. Gli ingranaggi in PEEK garantiscono pressione costante, cicli di lavoro prolungati, maggiore silenziosità e ottima resistenza ad agenti chimici. Corpo e connessioni in ottone nichelato, albero in acciaio inossidabile, tenute in FKM e O-ring in NBR. Disponibili nella versione con pannello di controllo elettronico per gestione a distanza della pompa.

DE Selbstansaugende, PEEK-Schrägzahnrad-Elektropumpen, 12V/24V Spannung, mit Rückschlagventil und elektronischem Drucksensor. Die PEEK-Zahnräder garantieren für einen konstanten Druck, für verlängerte Arbeitszyklen, Chemikalienresistenz und für verminderten Geräuschpegel. Gehäuse und Verbindungen aus vernickeltem Messing, Spindel aus rostfreiem Stahl, Dichtungen aus FKM und O-Ring aus NBR. Auch mit elektronischem Kontrollpaneel erhältlich.

FR Pompes électriques auto amorçantes avec engrenages hélicoïdaux en PEEK, tension universelle 12V / 24V, clapet anti-retour et capteur de pression électronique. Les engrenages en PEEK garantissent une pression constante, long cycles de travail, moins de bruit et une excellente résistance aux produits chimiques. Corps et raccords en laiton nickelé, arbre en acier inoxydable. Joint en FKM et O-Ring en NBR. Disponibles en version avec panneau de contrôle électronique pour la gestion à distance de la pompe.

EN Self-priming electric pumps with helical PEEK gears, universal voltage 12V / 24V, check valve and electronic pressure sensor. The PEEK gears guarantee constant pressure, heavy-duty cycles, lower noise levels and excellent resistance to chemicals. Body and nickel-plated brass connections, stainless steel shaft. FKM seals and NBR O-rings. Also available with electronic control panel for remote control.

ES Electrobombas eléctricas auto-cebadas con engranajes helicoidales en PEEK, voltaje universal 12V/24V, válvula de retención y sensor de presión electrónico. Los engranajes de PEEK garantizan una presión constante, largos ciclos de trabajo, niveles de ruido reducidos y una excelente resistencia a los productos químicos. Cuerpo y conexiones en latón niquelado, eje de acero inoxidable. Sellos en FKM y O-ring en NBR. Disponibles en versión con panel de control electrónico para la gestión remota de la bomba.

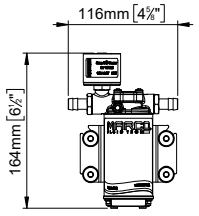
PT Eletrobombas auto-aspirantes com engrenagens helicoidais em PEEK, tensão universal 12V / 24V, válvula de retençao e sensor de pressão eletrônico. As engrenagens de PEEK garantem uma pressão constante, longos ciclos de trabalho, baixos níveis de ruído e excelente resistência à produtos químicos. Corpo e ligações em latão niquelado, eixo em aço inox, selos em FKM e O-ring em NBR. Disponíveis na versão com painel de controle eletrônico para a gestão remota da bomba.

ELECTRONIC PRESSURE PUMPS 12V/24V - DC

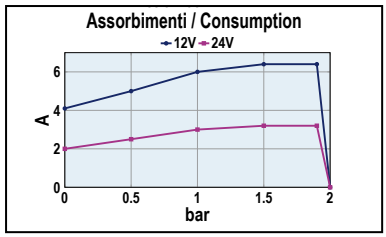
UP2/E

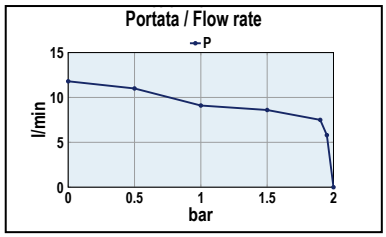


12/24V



H 164 x L 116 x W 81
H 6 1/2" x L 4 5/8" x W 3 1/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
12 l/min 3.2 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-660-15	12/24	1,5	6A / 3A	90W	15A	12 mm	3/8" BSPP	1,3 kg

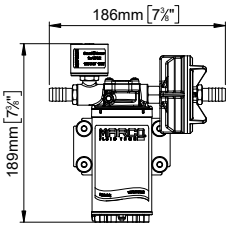
UP3/E



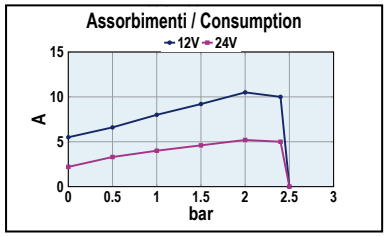
OPTIONAL PCS Control Panel (page 42)

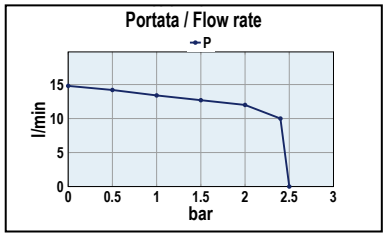


12/24V



H 189 x L 186 x W 101
H 7 3/8" x L 7 3/8" W x 4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	2,5 bar 36 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-602-15	12/24	1,5	6A / 3A	150W	15A	13 mm	3/8" BSPP	2 kg

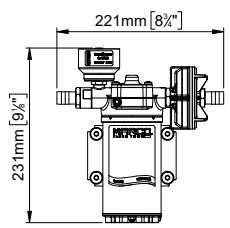
UP6/E



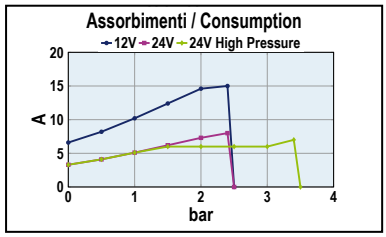
OPTIONAL PCS Control Panel (page 42)

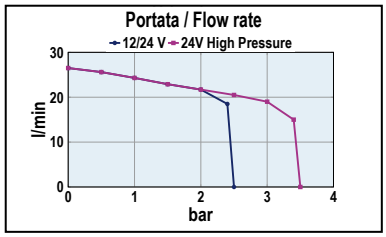


12/24V



H 231 x L 221 x W 111
H 9 1/8" x L 8 3/4" x W 4 3/8"





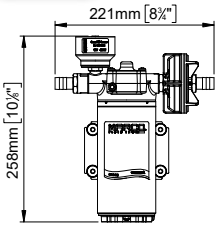
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
26 l/min 6.9 gpm	2,5 bar 36 psi
HIGH PRESSURE	3,5 bar 50.8 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-622-15	12/24	1,5	10A / 5A	180W	20A	16 mm	1/2" BSPP	3,7 kg
M164-622-13	24	1,5	5A	180W	10A	16 mm	1/2" BSPP	3,7 kg

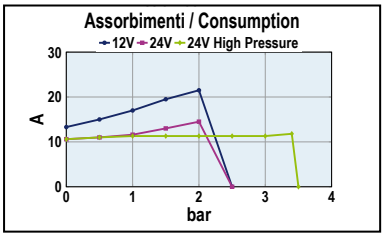
UP12/E

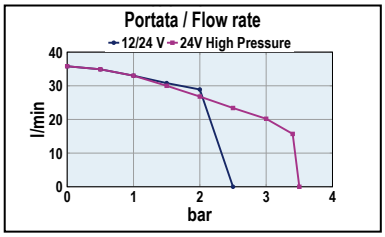


OPTIONAL PCS Control Panel (page 42)



H 258 x L 221 x W 113
H 10 1/8" x L 8 3/4" x W 4 1/2"





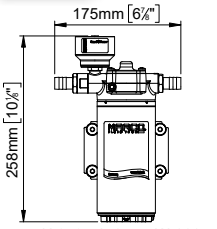
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
36 l/min 9.5 gpm	2,5 bar 36 psi
HIGH PRESSURE	3,5 bar 50.8 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-681-15	12/24	3	14A / 7A	360W	30A	16 mm	1/2" BSPP	4,9 kg
M164-681-13	24	3	7A	360W	20A	16 mm	1/2" BSPP	4,9 kg

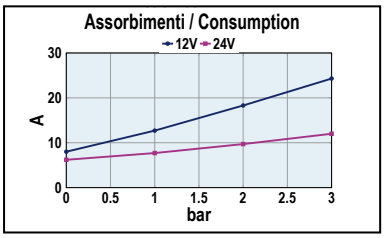
UP12/E-LO

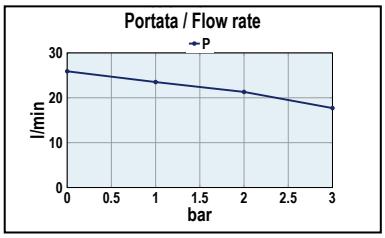


OPTIONAL PCS Control Panel (page 42)



H 258 x L 175 x W 111
H 10 1/8" x L 6 7/8" x W 4 3/8"





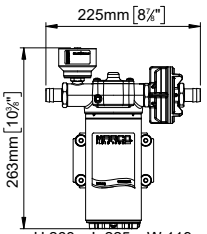
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
26 l/min 6.9 gpm	3 bar 43.5 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-687-15	12/24	3	14A / 7A	360W	25A	16 mm	1/2" BSPP	4,9 kg

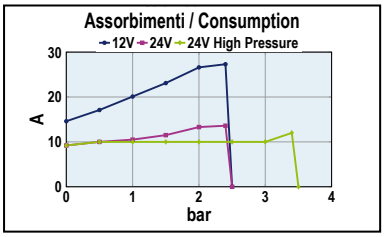
UP14/E

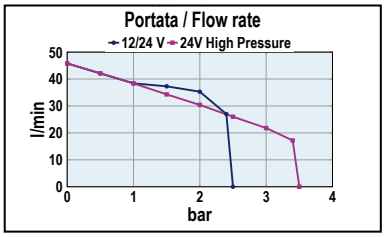


INCLUDED PCS Control Panel (page 42)



H 263 x L 225 x W 119
H 10 3/8" x L 8 7/8" x W 4 5/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
46 l/min 12.2 gpm	2,5 bar 36 psi
HIGH PRESSURE	3,5 bar 50.8 psi

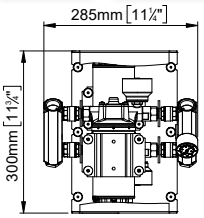
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-690-15	12/24	3	18A / 9A	400W	30A	19 mm	3/4" BSPP	5,2 kg
M164-690-13	24	3	9A	400W	15A	19 mm	3/4" BSPP	5,2 kg

UP6/E-DX

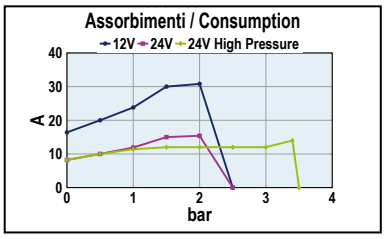


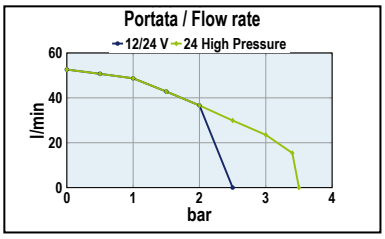
INCLUDED PCS Control Panel (page 42)





H 300 x L 285 x W 230
H 11 3/4" x L 11 1/4" x W 9"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
52 l/min 13.7 gpm	2,5 bar 36 psi
HIGH PRESSURE	3,5 bar 50.8 psi

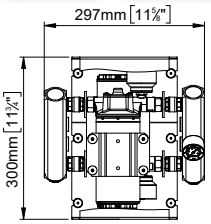
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	BOCCHE PORTS	PESO WEIGHT
M164-624-15	12/24	1,5	32A / 16A	2 x 180W	40A	3/4" BSPP	11 kg
M164-624-13	24	1,5	16A	2 x 180W	20A	3/4" BSPP	11 kg

UP66/E-DX

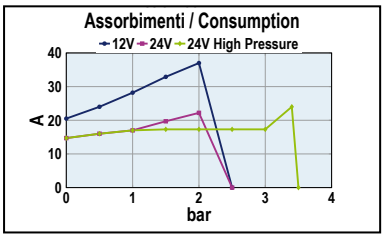


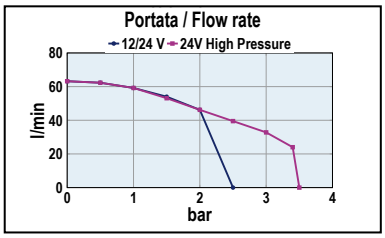
INCLUDED PCS Control Panel (page 42)





H 300 x L 297 x W 260
H 11 3/4" x L 11 5/8" x W 10 1/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
62 l/min 16.4 gpm	2,5 bar 36.3 psi
HIGH PRESSURE	3,5 bar 50.8 psi

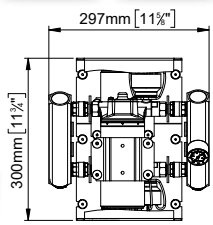
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	BOCCHE PORTS	PESO WEIGHT
M164-627-15	12/24	2	20A /15A	1 x 180W 1 x 360W	50A	3/4" BSPP	13 kg
M164-627-13	24	2	15A	1 x 180W 1 x 360W	25A	3/4" BSPP	13 kg

UP12/E-DX

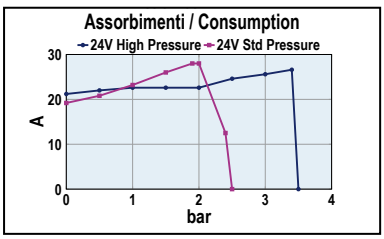


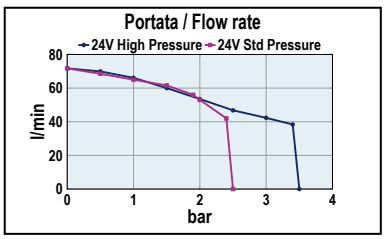
INCLUDED PCS Control Panel (page 42)





H 300 x L 297 x W 260
H 11 3/4" x L 11 5/8" x W 10 1/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
72 l/min 19 gpm	2,5 bar 36.3 psi
HIGH PRESSURE	3,5 bar 50.8 psi

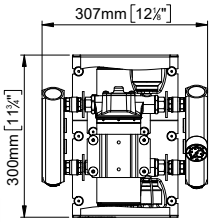
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	BOCCHE PORTS	PESO WEIGHT
M164-685-13	24	3	28A	2 x 360W	35A	1" BSPP	15 kg
M164-686-13	24	3	28A	2 x 360W	35A	1" BSPP	15 kg

UP14/E-DX

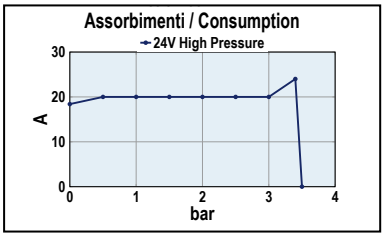


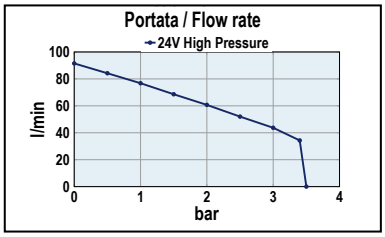
INCLUDED PCS Control Panel (page 42)





H 300 x L 307 x W 260
H 11 3/4" x L 12 1/8" x W 10 1/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
92 l/min 24.3 gpm	3,5 bar 50.8 psi HIGH PRESSURE

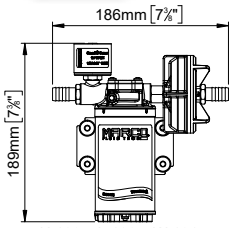
CODICE PART NUMBER	VOLT	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	BOCCHE PORTS	PESO WEIGHT
M164-691-13	24	3	18A	2 x 400W	30A	1" BSPP	17 kg

UP8/E

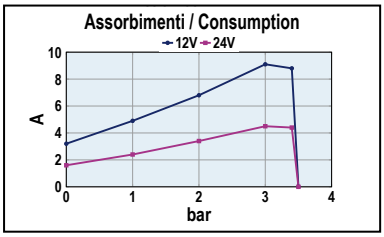


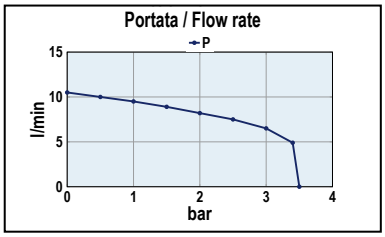
OPTIONAL PCS Control Panel (page 42)





H 189 x L 186 x W 101
H 7 3/8" x L 7 3/8" W x 4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	3,5 bar 50.8 psi HIGH PRESSURE

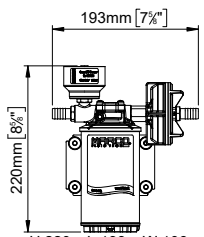
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-635-15	12/24	1,5	11A /5,5A	150W	15A	13 mm	3/8" BSPP	2,1 kg

UP9/E

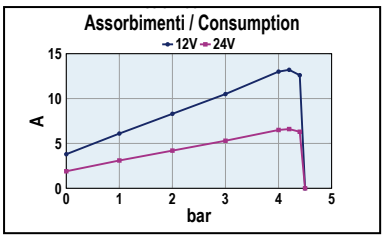


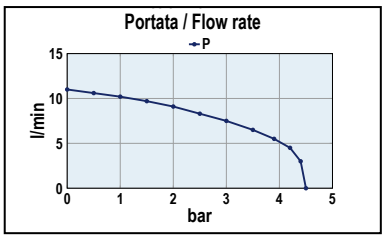
OPTIONAL PCS Control Panel (page 42)





H 220 x L 193 x W 106
H 8 5/8" x L 7 5/8" x W 4 1/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
12 l/min 3.2 gpm	4,5 bar 65.3 psi HIGH PRESSURE

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-642-15	12/24	1,5	5A / 2,5A	180W	15A	13 mm	3/8" BSPP	3,3 kg

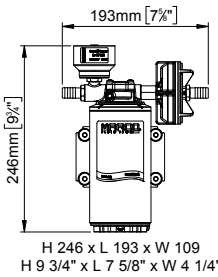
UP10/E



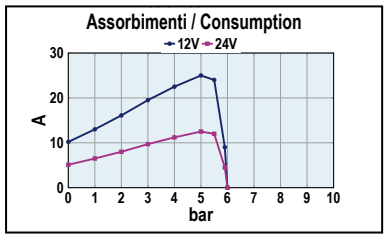
OPTIONAL PCS Control Panel (page 42)

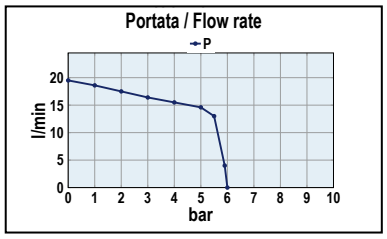


12/24V



H 246 x L 193 x W 109
H 9 3/4" x L 7 5/8" x W 4 1/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
18 l/min 4.8 gpm	6 bar 87 psi HIGH PRESSURE

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-404-15	12/24	3	11A / 5,5A	360W	30A	13 mm	3/8" BSPP	4,3 kg

ELECTRONIC PRESSURE PUMP KITS 12V/24V - DC

SP2

▪ Complete shower kit



12/24V

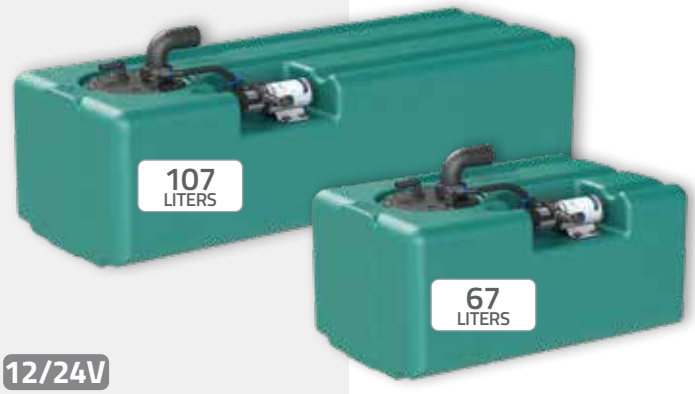


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
12 l/min 3.2 gpm	2 bar 29 psi

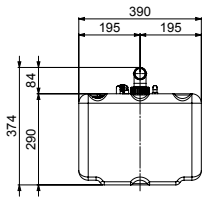
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-900-15	12/24	1,5	6A / 3A	90W	7,5A	12 mm	3/8" BSPP	2,3 kg

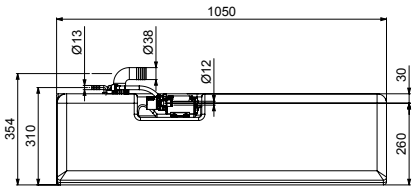
TK1/2 TK2/2

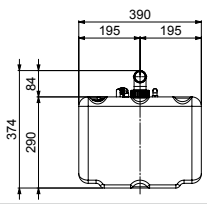
▪ Tank kit with electronic pump ▪ Capability 107 or 67 liters

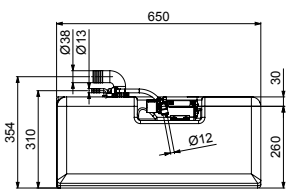


12/24V









PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
12 l/min 3.2 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	POMPA PUMP	CAPACITA SERBATOIO TANK CAPACITY l	DIMENSIONI DIMENSIONS mm	FUSIBILE FUSE	BOCCHE PORTS
M164-910-15	12/24	UP2/E	107	1050 x 290 x 390	15A	3/8" BSPP
M164-911-15	12/24	UP2/E	67	650 x 290 x 390	15A	3/8" BSPP

ELECTRONIC DECK WASHING PUMPS 12V/24V - DC

DP3/E

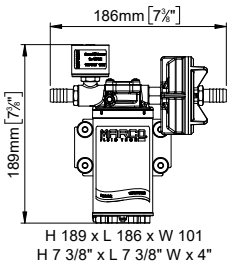


12/24V

PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
14 l/min 3.7 gpm	3 bar 43.5 psi

▪ Wash down kit with 15m/50ft retractable hose





H 189 x L 186 x W 101
H 7 3/8" x L 7 3/8" W x 4"

DQC Connection see page 78



CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-801-15	12/24	1,5	10A	150W	15A	13 mm	3/8" BSPP	4,6 kg

DP9/E



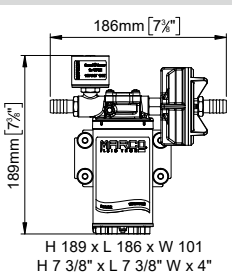
12/24V

PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
12 l/min 3.2 gpm	4,5 bar 65.3 psi

HIGH PRESSURE

▪ Wash down kit with 15m/50ft retractable hose





H 189 x L 186 x W 101
H 7 3/8" x L 7 3/8" W x 4"

DQC Connection see page 78



CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-821-15	12/24	1,5	12A	180W	15A	13 mm	3/8" BSPP	4,6 kg

DP10/E-MS

NEW



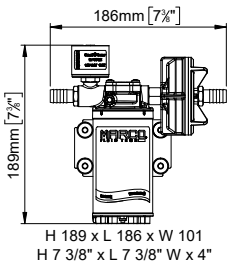
12/24V

PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
18 l/min 4 gpm	8 bar 116 psi

HIGH PRESSURE

▪ Wash down kit with 15m/50ft retractable hose ▪ Mechanical seal





H 189 x L 186 x W 101
H 7 3/8" x L 7 3/8" W x 4"

DQC Connection see page 78



CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
1E4 831 15	12/24	3	26A	320W	30A	13 mm	3/4" BSPP	5,5 kg

DP12/E



12/24V

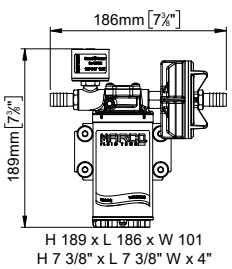
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	6 bar 87 psi

HIGH PRESSURE

▪ Wash down kit with 15m/50ft retractable hose

VIDEO www.marco.it





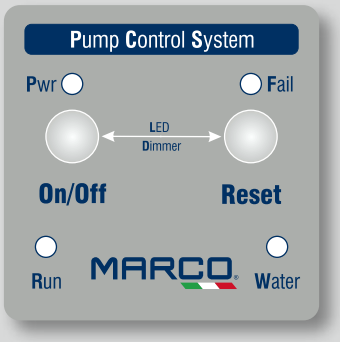
H 189 x L 186 x W 101
H 7 3/8" x L 7 3/8" W x 4"

DQC Connection see page 78



CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-841-15	12/24	3	24A	360W	25A	13 mm	3/8" BSPP	5,5 kg





PCS PUMP CONTROL SYSTEM

TIPO TYPE	CODICE PART NUMBER	VOLT	DIMENSIONI DIMENSIONS mm	FORO HOLE mm	CONNESSIONE CONNECTION	PROTEZIONE PROTECTION
PCS	M165-203-15	12/24	80 x 80 x 46	Ø 70	RJ11	IP65

IT Il pannello di controllo PCS permette di monitorare a distanza il funzionamento della pompa ed interagire con essa.
Caratteristiche:

- Monitoraggio a distanza del funzionamento della pompa ed interazione con essa: verifica della presenza di liquido e reset in caso di malfunzionamento senza togliere l'alimentazione.
- Il LED "Run" segnala il funzionamento della pompa ed avvisa in caso di piccole perdite nell'impianto evitando danni al motore a causa del funzionamento prolungato a bassi giri.
- Arresto e riavvio della pompa con la semplice pressione di un tasto.
- Connessione rapida del pannello al cavo di 3m con attacco RJ11/6 integrato nel sensore della pompa.
- Possibilità di montaggio ad incasso con foro circolare di diametro 70mm o di montaggio esterno.
- Morsettiera che permette di replicare i pulsanti e i LED presenti sul pannello su un circuito esterno: questo permette di gestire in modo personalizzato le funzionalità su un dispositivo progettato da terze parti.

DE Das PCS Kontroll- Paneel ermöglicht es, die elektronische Pumpe fern zu steuern und mit ihr zu interagieren.
Eigenschaften:

- Fernüberwachung des Pumpenlaufs und deren Fernsteuerung: kontrolliert das Vorhandensein von Flüssigkeit, bei Fehlbetrieb schaltet sich die Reset-Funktion ein, ohne alles ausschalten zu müssen.
- Das "Run" LED zeigt an, dass die Pumpe arbeitet und gibt eine Warnung an bei kleinen Wasserverlusten im System. Damit kann, bei längerem Betrieb mit niedrigen Umdrehungen, ein Motorschaden verhindert werden.
- Stoppen und Starten der Pumpe wird mit einem Knopfdruck betätigt.
- Schnellverbindung des Paneels an das 3m RJ11/6 Kabel, das in dem Pumpensensor integriert ist.
- Einbaumöglichkeit in rundem, 70mm- Durchmesser Loch oder externe Montage.
- Mit dem Verteiler kann man die Knöpfe und LEDs des Paneels auf einen externen Kreis wiedergeben: dieses ermöglicht eine individuelle Einstellung der Funktionen auf einer externen Vorrichtung, die von Dritten entworfen wurde.

FR Le panneau de contrôle PCS vous permet de surveiller à distance le fonctionnement de la pompe et d'interagir avec elle.
Les caractéristiques:

- Surveillance à distance du fonctionnement de la pompe et de l'interaction avec elle: vérification de la présence de liquide et réinitialisation en cas de dysfonctionnement sans débrancher l'appareil.
- Le LED "Run" indique que la pompe est en marche et donne l'alerte en cas de petites fuites dans le système, pour prévenir des dommages au moteur en raison d'un fonctionnement prolongé à faible vitesse.
- Arrêt et démarrage de la pompe avec une simple pression sur un bouton.
- Connexion rapide du panneau au câble de 3m avec terminal RJ11/6, intégré dans le capteur de la pompe.
- Le panneau peut être encastré dans un trou circulaire d'un diamètre de 70 mm ou monté à l'extérieur .
- Le bornier permet à l'utilisateur de reproduire les boutons et el les LEDS du panneau sur un circuit externe favorisant ainsi une gestion personnalisée des fonctions grâce à un dispositif externe conçu par des tiers.

EN The PCS control panel allows you to remotely monitor the operation of the pump and interact with it.
Characteristics:

- Remote monitoring of the pump operation and interaction with it: checking of liquid presence and reset in case of malfunction without disconnecting the device.
- The "Run" LED indicates that the pump is working and alerts in case of small leaks in the system, preventing motor damage due to prolonged operation at low speed.
- Stop and Start of the pump with a simple push of a button.
- Quick connection of the panel to the 3m RJ11/6 terminal cable integrated in the sensor of the pump.
- The panel can be recessed in a circular hole of a 70mm diameter or externally mounted.
- The terminal block allows the user to replicate the buttons and leds of the panel on an external circuit thus favoring a personalized management of the functions through an external device designed by third parties.

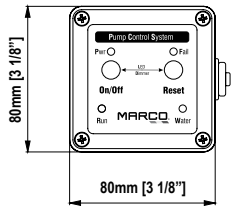
ES El panel de control PCS permite controlar a distancia el funcionamiento de la bomba e interactuar con ella.
Características:

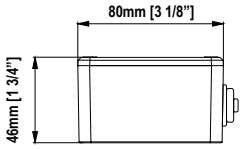
- Monitorización remota del funcionamiento de la bomba e interacción con ella: Comprobación de la presencia de líquido y reinicio en caso de avería sin necesidad de desconectar el dispositivo.
- El LED « Run » indica que de la bomba está funcionando y avisa en caso de pequeñas fugas en el sistema, para prevenir daños en el motor debido al funcionamiento prolongado a baja velocidad.
- Apagamiento e reinicio de la bomba con una simple pulsación de un botón.
- Conexión rápida del panel al cable de 3m con terminal RJ11 / 6, integrado en el sensor de la bomba.
- El panel puede ser empotrado dentro de un orificio circular de un diámetro de 70 mm o montado externamente.
- El bloque de terminales permite al usuario reproducir los botones y LEDS del panel en un circuito externo: esto permite una gestión personalizada de las funciones a través de un dispositivo externo diseñado por terceros.

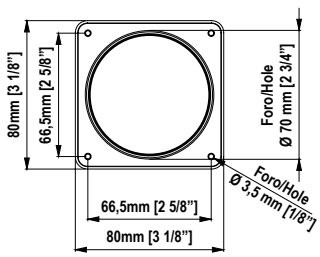
PT O painel de controle PCS permite monitorar remotamente o funcionamento da bomba e interagir com a mesma.
Características:

- Monitoramento remoto da operação da bomba e interação com a mesma: verificação da presença de líquido e reinicio em caso de funcionamento defeituoso sem desligar o dispositivo.
- O LED "Run" indica que a bomba está funcionando e alerta em caso de pequenas fugas no sistema, para evitar danos no motor devido a um funcionamento prolongado a baixa velocidade.
- Paragem e arranque da bomba com uma simples pressão dum botão.
- Ligação rápida do painel ao cabo de 3m com terminal RJ11 / 6, integrado no sensor da bomba.
- O painel pode ser embutido num orifício circular com um diâmetro de 70 mm ou montado externamente.
- Um bloco de terminais permite replicar os botões e LEDs do painel num circuito externo: isto permite controlar individualmente as funções num dispositivo projetado por terceiros.

DIMENSIONI DIMENSIONS







IMPELLER PUMPS

VIDEO www.marco.it

48V AVAILABLE
UPON REQUEST



ISO 8849
ISO 8846

FLEXIBLE IMPELLER



REVERSIBLE



IT Elettropompe autoadescanti con girante flessibile in gomma. La girante in gomma garantisce alta portata e permette il passaggio di piccole impurità contenute nelle acque grigie. Disponibili con portate da 28 l/min a 45 l/min e in versioni con interruttore o deviatore integrati. Dotate di portaspazzole interno con filtro antidisturbo EMI, calotta impermeabile e passacavo stagno. Corpo in ottone nichelato, albero in acciaio inossidabile. Tenute in FKM e O-ring in NBR. ISO 8849 e ISO 8846.

DE Selbstansaugende Elektropumpen mit flexiblem Schaufelrad aus Nitrilgummi. Das Schaufelrad aus Gummi garantiert für eine hohe Leistung und erlaubt das Vorbeifließen von kleinen Unreinheiten, die in Grauwasser vorhanden sind. Jetzt verfügbar mit Förderleistung 28l/min und 45l/min. Erhältlich entweder mit integriertem Ein- und Aus Schalter oder 3-Positionen- Schalter. Wird mit internem Bürstenhalter mit EMI-Filter, wasserdichtem Deckel und Kabeldurchgang geliefert. Gehäuse aus vernickeltem Messing, Spindel aus rostfreiem Stahl. Dichtungen aus FKM und O-Ring aus NBR. ISO 8849 und ISO 8846.

FR Pompes électriques auto-amorçantes avec rotor flexible vulcanisé. Le rotor assure un débit élevé et permet le passage de petites impuretés dans les eaux usées. Disponibles avec capacités de 28 l/min jusqu'à 45 l/min et en versions avec interrupteur ou déviateur intégrés. Corps en laiton nickelé, arbre en acier inoxydable, joint en FKM et O-Ring en NBR. Le port balais se trouve a l'intérieur, protégé par une calotte avec galoche, joint et filtre EMI. ISO 8846 et ISO 8849.

EN Self-priming electric pumps with rubber impeller. The rubber impeller guarantees a high flow rate and allows the passage of small impurities in wastewaters. Available with capacities from 28l/min up to 45 l/min and in versions with integrated on-off switch or flow reverser switch. Nickel-plated brass body and stainless steel shaft, FKM seals and NBR O-rings. Fitted with waterproof cable guide and internal brush holder with EMI filter. ISO 8846 and ISO 8849.

ES Electrobombas auto-cebadas con impulsor vulcanizado. El impulsor asegura un caudal elevado y permite el paso de pequeñas impurezas en el agua residual. Disponibles con capacidades desde 28 l/min hasta a 45 l/min y en versiones con interruptor o desviador de flujo integrados. Cuerpo en latón niquelado, eje en acero inoxidable. Sellos en FKM y O-ring and NBR. Equipadas con pasa-cable impermeable y porta-escobillas interno con filtro EMI. ISO 8846 e ISO 8849.

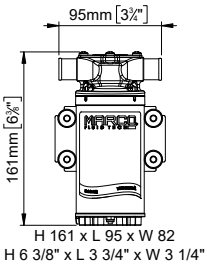
PT Eletrobombas autoaspirantes com impulsor de borracha. O impulsor garante um fluxo elevado e a passagem de pequenas impurezas contidas na água de residuos. Agora disponíveis em 3 dimensões com capacidades de 28 l/min até 45 l/min e em versões com interruptor on-off ou desviador de fluxo integrados. Corpo em latão niquelado, eixo em aço inox. Selos em FKM y O-ring em NBR. Porta-escovas interno com filtro EMI, tampa impermeável e passa fios hermético. ISO 8849 e ISO 8846.

IMPELLER PUMPS 12V and 24V - DC

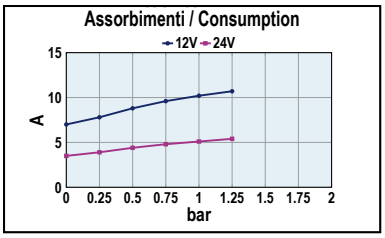
UP1-J

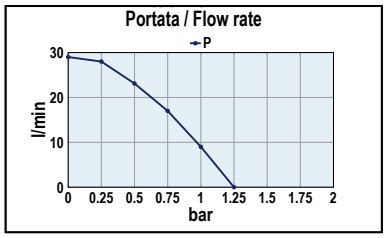


12V
24V



H 161 x L 95 x W 82
H 6 3/8" x L 3 3/4" x W 3 1/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
28 l/min 7.4 gpm	1,25 bar 18.1 psi

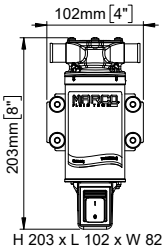
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M162-004-12	12	1,5	8A	150W	10A	20 mm	3/8" BSPP	1,8 kg
M162-004-13	24	1,5	4A	150W	7,5A	20 mm	3/8" BSPP	1,8 kg

UP1-JS

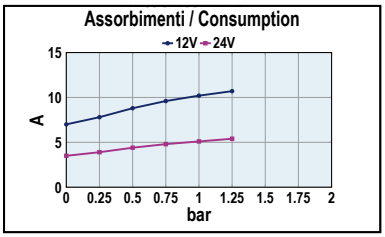
I
0
On/Off switch

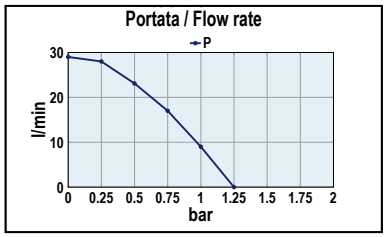


12V
24V



H 203 x L 102 x W 82
H 8" x L 4" x W 3 1/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
28 l/min 7.4 gpm	1,25 bar 18.1 psi

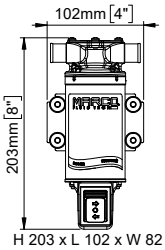
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M162-010-12	12	1,5	8A	150W	10A	20 mm	3/8" BSPP	1,8 kg
M162-010-13	24	1,5	4A	150W	7,5A	20 mm	3/8" BSPP	1,8 kg

UP1-JR

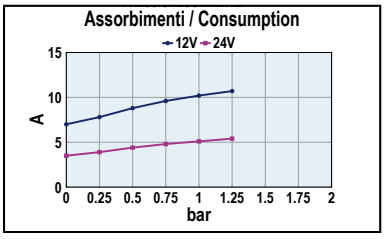
On/Off 3 positions reversing switch

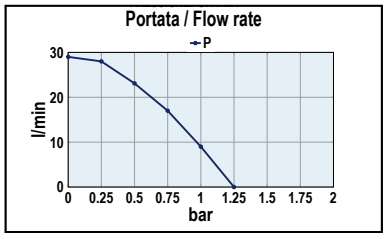


12V
24V



H 203 x L 102 x W 82
H 8" x L 4" x W 3 1/4"





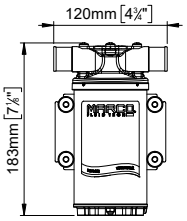
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
28 l/min 7.4 gpm	1,25 bar 18.1 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M162-011-12	12	1,5	8A	150W	10A	20 mm	3/8" BSPP	1,8 kg
M162-011-13	24	1,5	4A	150W	7,5A	20 mm	3/8" BSPP	1,8 kg

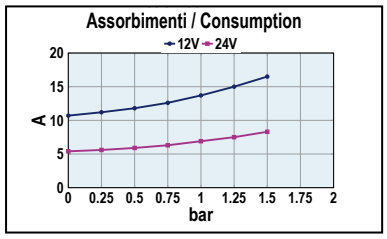
UP1

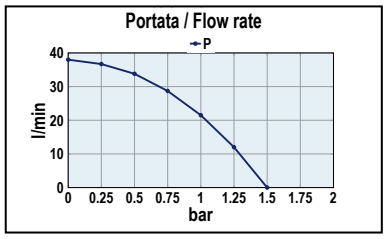


12V
24V



H 183 x L 120 x W 95
H 7 1/8" x L 4 3/4" x W 3 3/4"





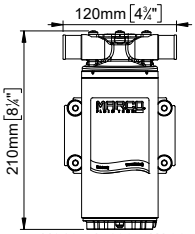
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
35 l/min 9.2 gpm	1,5 bar 21.8 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M162-002-12	12	1,5	10A	180W	20A	25 mm	1/2" BSPP	2,9 kg
M162-002-13	24	1,5	5A	180W	15A	25 mm	1/2" BSPP	2,9 kg

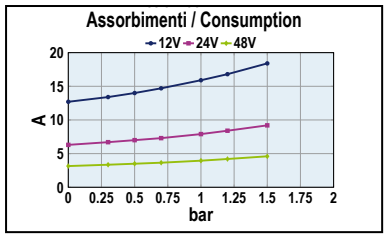
UP1-M

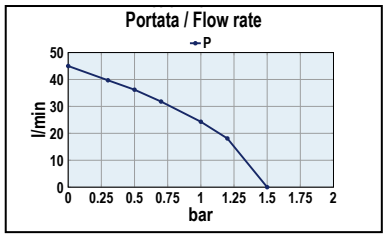


12V
24V



H210 x L 120 x W 98
H 8 1/4" x L 4 3/4" x W 3 7/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
45 l/min 11.9 gpm	1,5 bar 21.8 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M162-006-12	12	1,5	14A	360W	20A	25 mm	1/2" BSPP	4,1 kg
M162-006-13	24	1,5	7A	360W	15A	25 mm	1/2" BSPP	4,1 kg

UP1-B

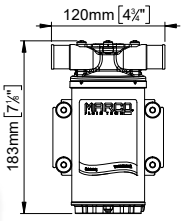


OPTIONAL RCS Control Panel (page 75)

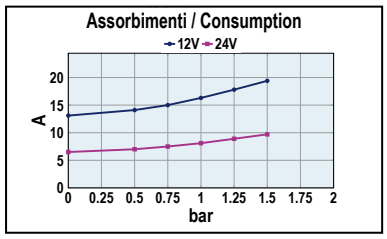
- Reversible
- Ideal for ballast applications

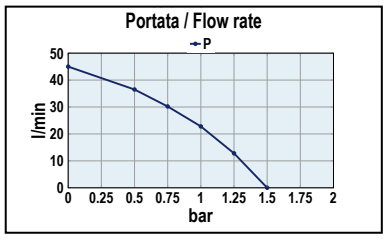


12V
24V



H 183 x L 120 x W 95
H 7 1/8" x L 4 3/4" x W 3 3/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
45 l/min 11.9 gpm	1,5 bar 21.8 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M162-003-12	12	1,5	14A	180W	20A	25 mm	1/2" BSPP	2,9 kg
M162-003-13	24	1,5	7A	180W	15A	25 mm	1/2" BSPP	2,9 kg

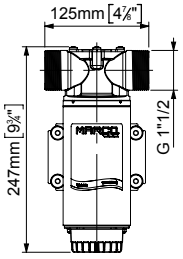
UP1-TB

TURBO BALLAST PUMP ▪ Reversible ▪ Ideal for ballast applications

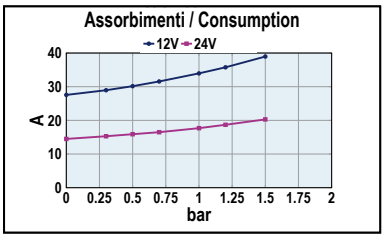
NEW

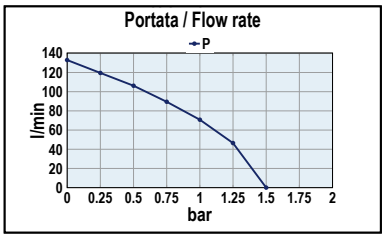


12V
24V



H 247 x L 125 x W 98
H 9 3/4" x L 4 7/8" x W 3 7/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
133 l/min 35 gpm	1,5 bar 21.8 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M162-100-12	12	1,5	28A	350W	35A	38 mm	1-1/4" BSPP	4,1 kg
M162-100-13	24	1,5	14A	350W	25A	38 mm	1-1/4" BSPP	4,1 kg

Available with two set of connections

1 Inline fittings



2 Elbow fittings



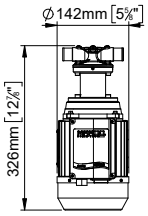
Starting February 2026

IMPELLER PUMPS 110V and 230V - AC

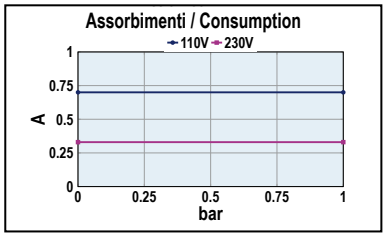
UP1/AC

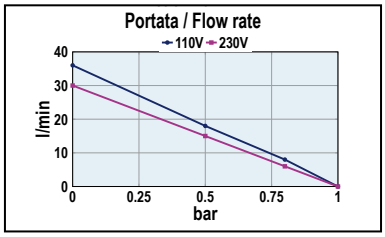


230V
110V



H 326 x L 142 x W 195
H 12 7/8" x L 5 5/8" x W 7 5/8"





	PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
230V	30 l/min 7.9 gpm	1 bar 14.5 psi
110V	36 l/min 9.5 gpm	1 bar 14.5 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
162 001 1C	230	1,5	3,3A	550W	4A	25 mm	1/2" BSPP	7,3 kg
162 001 1B	110	1,5	7A	550W	8A	25 mm	1/2" BSPP	7,3 kg

Spare parts and accessories

Page 76

IMP1



IMP2



IMP2/V



SUBMERSIBLE PUMPS 12V and 24V - DC



IT Elettropompe ad immersione per svuotamento ad alta portata e bassa prevalenza. Involucro in robusto ABS antiurto, resistente alla corrosione ed alla elettrolisi.

DE Elektrische Tauchpumpe für Entleerung mit hoher Förderleistung und niedriger Förderhöhe. Das Gehäuse ist aus robustem Antistoß-ABS, beständig gegen Korrosion und Elektrolyse.

FR Pompes immergées pour opérations de vidange. Haut débit et basse pression. Corps de robuste ABS antichoc, résistant à la corrosion et à l'électrolyse.

EN Submersible pumps, especially fit for emptying operations. High flow and low head. Compact design with ABS housing, corrosion and electrolysis resistant.

ES Electrobombas sumergibles para operaciones de vaciamiento. Alta capacidad y baja prevalencia. Cuerpo en robusto ABS resistente a la corrosión y a la electrólisis.

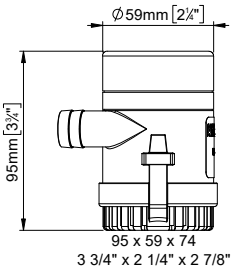
PT Bombas submergíveis para operações de esvaziamento. Alta capacidade e baixa pressão. Carcaça em ABS reforçado, resistente à corrosão e eletrólise.

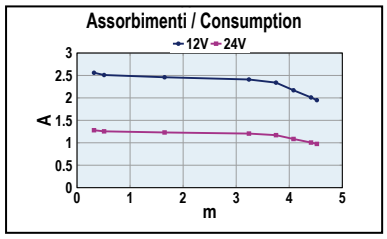
UP500

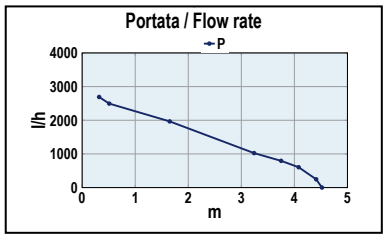
▪ ISO 8849 ▪ ISO 8846



12V
24V







PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
32 l/min 500 gph	0,4 bar 5.8 psi

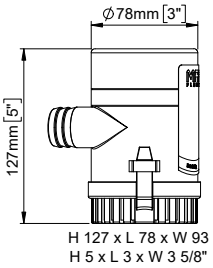
CODICE PART NUMBER	VOLTS	PREVALENZA LIFT	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	PESO WEIGHT
M160-100-12	12	4 m	2,5A	30W	5A	19 mm	0,5 kg
M160-100-13	24	4 m	1,2A	30W	3A	19 mm	0,5 kg

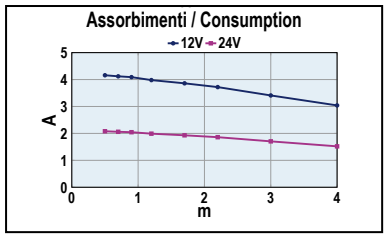
UP1000

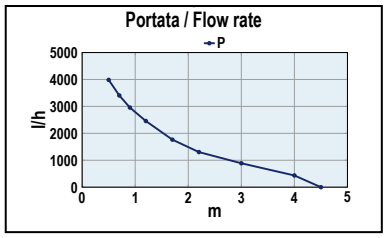
▪ ISO 8849 ▪ ISO 8846



12V
24V







PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
63 l/min 1000 gph	0,4 bar 5.8 psi

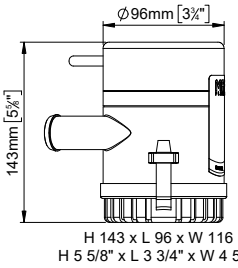
CODICE PART NUMBER	VOLTS	PREVALENZA LIFT	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	PESO WEIGHT
M160-120-12	12	4 m	4A	50W	10A	30 mm	1 kg
M160-120-13	24	4 m	2A	50W	5A	30 mm	1 kg

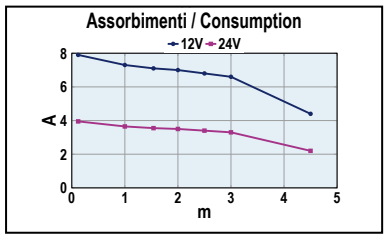
UP1500

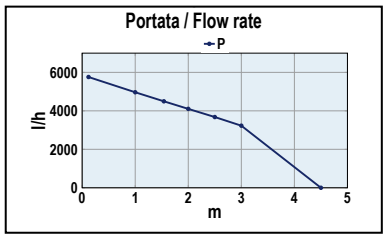
▪ Heavy duty ▪ ISO 8849 ▪ ISO 8846



12V
24V







PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
95 l/min 1500 gph	0,4 bar 5.8 psi

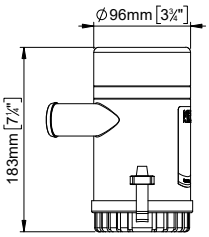
CODICE PART NUMBER	VOLTS	PREVALENZA LIFT	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	PESO WEIGHT
M160-140-12	12	4 m	10A	120W	20A	30 mm	1,5 kg
M160-140-13	24	4 m	5A	120W	10A	30 mm	1,5 kg

UP2000

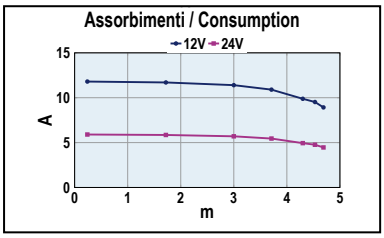
▪ Heavy duty ▪ ISO 8849 ▪ ISO 8846

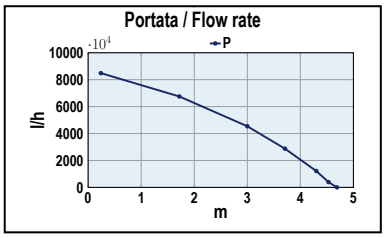


12V
24V



H 183 x L 96 x W 116
H 7 1/4" x L 3 3/4" x W 4 5/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
126 l/min 2000 gph	0,4 bar 5.8 psi

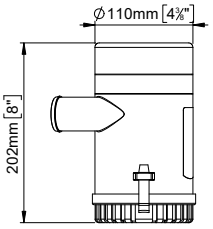
CODICE PART NUMBER	VOLTS	PREVALENZA LIFT	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	PESO WEIGHT
M160-160-12	12	4 m	12A	150W	25A	32 mm	2 kg
M160-160-13	24	4 m	6A	150W	15A	32 mm	2 kg

UP3700

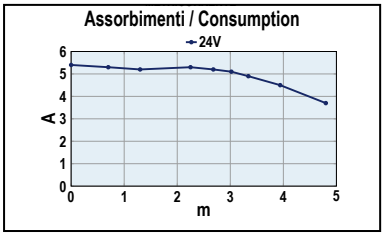
▪ Heavy duty ▪ ISO 8849 ▪ ISO 8846

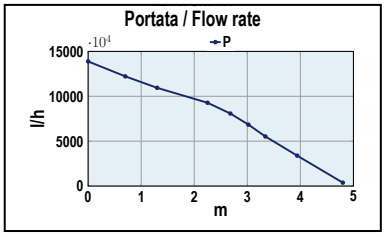


24V



H 202 x L 110 x W 130
H 8" x L 4 3/8" x W 5 1/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
233 l/min 3700 gph	0,5 bar 7.3 psi

CODICE PART NUMBER	VOLTS	PREVALENZA LIFT	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	PESO WEIGHT
M160-180-13	24	5 m	6A	200W	10A	38 mm	3,2 kg

Spare parts and accessories

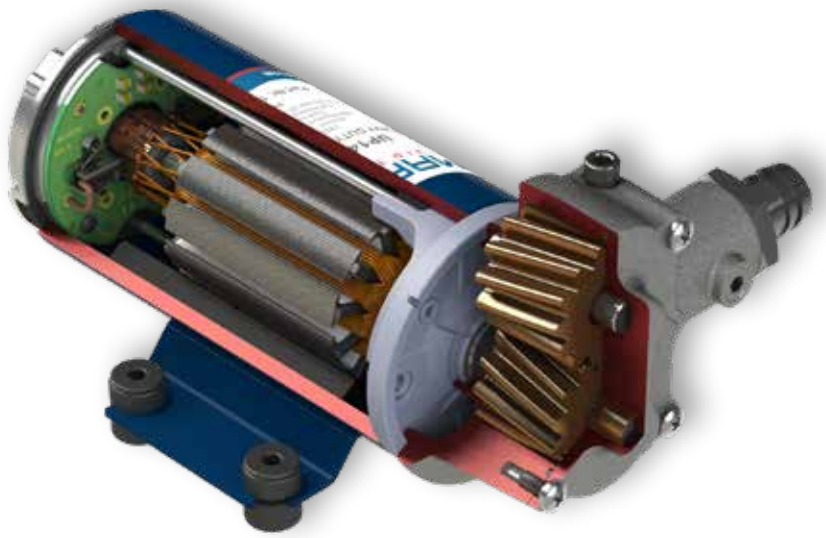
Page 76

AS3

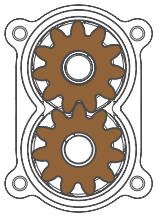


BRONZE GEAR PUMPS

48V AVAILABLE
UPON REQUEST



BRONZE GEARS



REVERSIBLE



IT Elettropompe autoadescanti di dimensioni compatte con ingranaggi in bronzo per travaso diesel. Gli ingranaggi elicoidali in bronzo garantiscono pressione costante, cicli di lavoro prolungati, maggiore silenziosità e possono operare anche in mancanza di liquido. Corpo in ottone nichelato, albero in acciaio inossidabile. Tenute in FKM e O-ring in NBR. Disponibili in versioni dotate di: carter con maniglia, interruttore o deviatore integrati e controllo elettronico.

DE Kompakte, selbstansaugende Elektropumpe mit Bronzezahnrädern zum Umfüllen von Diesel. Die Bronze- Schrägzahnräder garantieren einen konstanten Druck, verlängerte Arbeitszyklen, sind geräuschärmer und können auch ohne Flüssigkeit arbeiten. Gehäuse aus vernickeltem Messing, Spindel aus rostfreiem Stahl. Dichtungen aus FKM und O-Ring aus NBR. Erhältlich in den Modellen mit Tragetasche, integriertem Schalter oder Wechselschalter und elektronischer Kontrolle.

FR Pompes électriques auto-amorçantes de dimensions réduites avec engrenages en bronze pour transvasement de diesel. Les engrenages hélicoïdaux en bronze assurent une pression constante, des cycles de travail longs, moins de bruit et peuvent également fonctionner en l'absence de liquide. Corps de laiton nickelé, arbre en acier inoxydable, joint en FKM et O-Ring en NBR. Disponibles en versions avec boîtier muni de poignée, avec interrupteur ou déviateur intégrés et avec contrôle électronique.

EN Self-priming electric pumps of compact footprint with bronze gears for diesel transfer. Helical bronze gears guarantee constant pressure, heavy duty cycles, less noise and can operate in the absence of liquid. Body in nickel-plated brass and shaft in stainless steel. FKM seals and NBR O-rings. Available in versions with portable case, integrated on-off switch or flow reverser switch and electronic control.

ES Electrobombas auto cebadas de pequeñas dimensiones con engranajes en bronce para transvase de diésel. Los engranajes helicoidales de bronce garantizan presión constante, largos ciclos de trabajo, menos ruido y pueden operar en ausencia de líquido. Cuerpo en latón niquelado, eje en acero inoxidable. Sellos de FKM y O-ring de NBR. Disponibles en versiones con Kit portable, interruptor o desviador de flujo integrados y control electrónico.

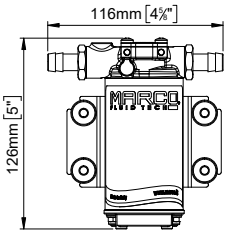
PT Eletrobombas autoaspirantes de pequenas dimensões com engrenagens em bronze para trasfega de diesel. As engrenagens helicoidais de bronze garantem uma pressão constante, longos ciclos de trabalho, menos ruído e também podem funcionar sem líquido. Corpo em latão niquelado, eixo em aço inox. Selos de FKM e O-ring de NBR. Disponíveis em versões com kit portável, interruptor on-off ou desviador de fluxo integrados e controle eletrônico.

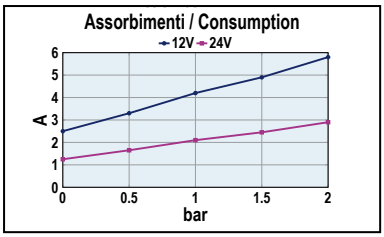
BRONZE GEARS 12V and 24V - DC

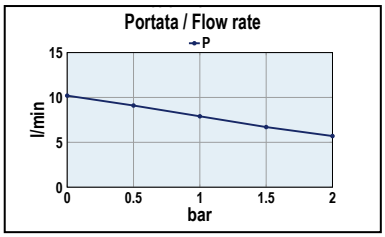
UP2



12V
24V







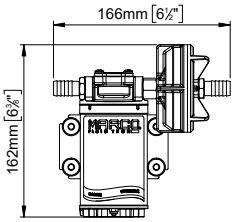
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	1,5 bar 21.8 psi

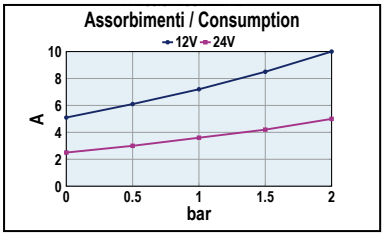
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-200-12	12	1,5	6A	90W	7,5A	12 mm	3/8" BSPP	1,2 kg
M164-200-13	24	1,5	3A	90W	5A	12 mm	3/8" BSPP	1,2 kg

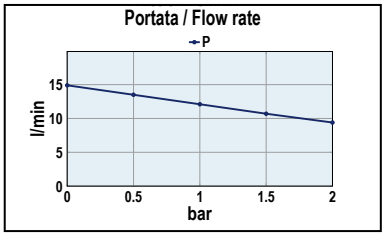
UP3



12V
24V







PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-000-12	12	1,5	6A	120W	10A	13 mm	3/8" BSPP	1,4 kg
M164-000-13	24	1,5	3A	120W	5A	13 mm	3/8" BSPP	1,4 kg

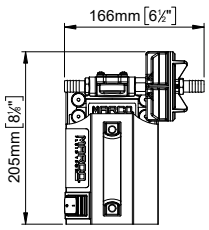
UP3-CK

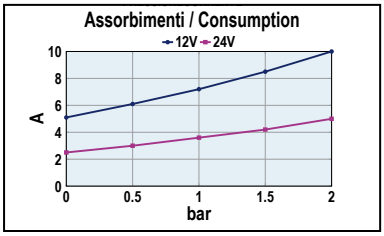
▪ Portable kit

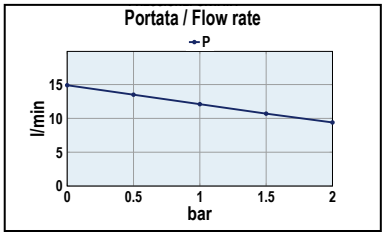
I
0
On/Off switch



12V
24V







PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	2 bar 29 psi

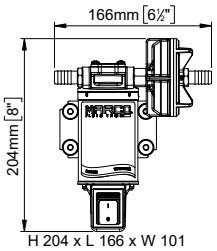
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-006-12	12	1,5	6A	120W	10A	13 mm	3/8" BSPP	2,8 kg
M164-006-13	24	1,5	3A	120W	5A	13 mm	3/8" BSPP	2,8 kg

UP3-S

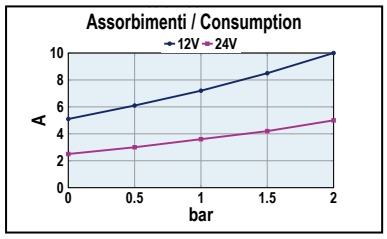
I
0
On/Off switch

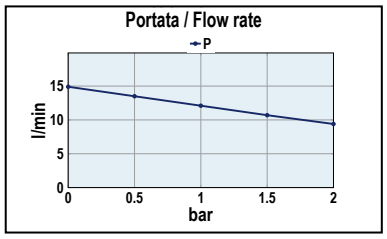


12V
24V



H 204 x L 166 x W 101
H 8" x L 6 1/2" x W 4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	2 bar 29 psi

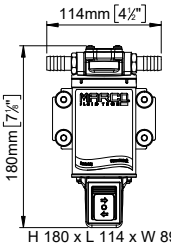
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-007-12	12	1,5	6A	120W	10A	13 mm	3/8" BSPP	1,8 kg
M164-007-13	24	1,5	3A	120W	5A	13 mm	3/8" BSPP	1,8 kg

UP3-R

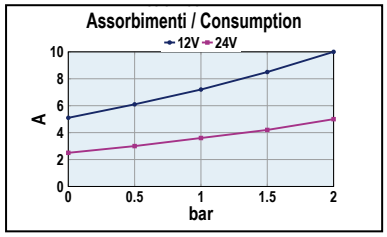
⇦
○
⇨
On/Off 3 positions reversing switch

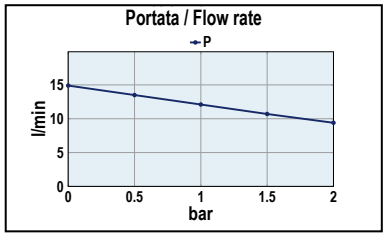


12V
24V



H 180 x L 114 x W 89
H 7 1/8" x L 4 1/2" x W 3 1/2"





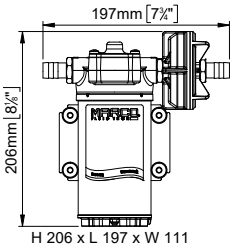
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-008-12	12	1,5	6A	120W	10A	13 mm	3/8" BSPP	1,8 kg
M164-008-13	24	1,5	3A	120W	7,5A	13 mm	3/8" BSPP	1,8 kg

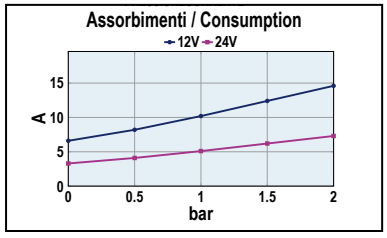
UP6

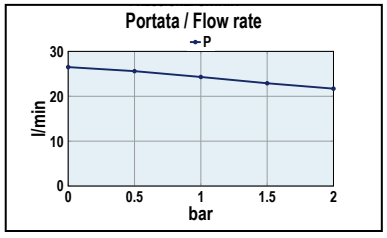


12V
24V



H 206 x L 197 x W 111
H 8 1/8" x L 7 3/4" x W 4 3/8"





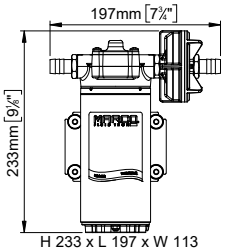
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
26 l/min 6.9 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-060-12	12	2	10A	180W	15A	16 mm	1/2" BSPP	3,2 kg
M164-060-13	24	2	5A	180W	7,5A	16 mm	1/2" BSPP	3,2 kg

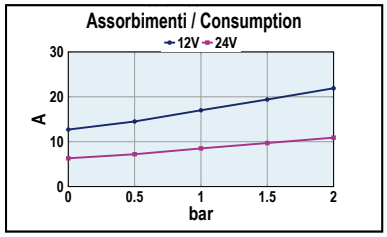
UP12

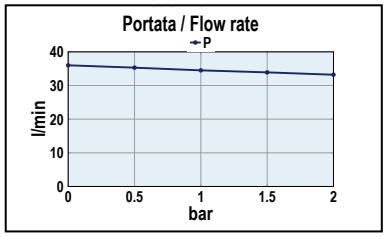


12V
24V



H 233 x L 197 x W 113
H 9 1/8" x L 7 3/4" x W 4 1/2"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
36 l/min 9.5 gpm	2 bar 29 psi

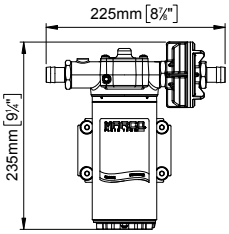
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-300-12	12	4	28A	360W	30A	16 mm	1/2" BSPP	4,5 kg
M164-300-13	24	4	14A	360W	20A	16 mm	1/2" BSPP	4,5 kg

UP14

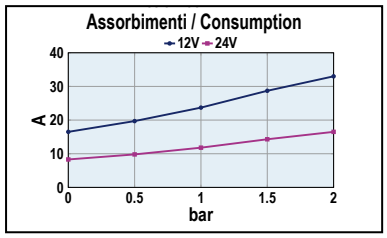
▪ High flow rate

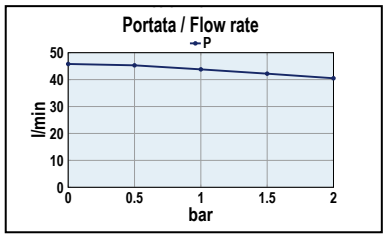


12V
24V



H 235 x L 225 x W 119
H 9 1/4" x L 8 7/8" x W 4 5/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
46 l/min 12.2 gpm	2 bar 29 psi

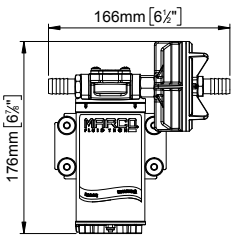
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-500-12	12	4	16A	400W	30A	19 mm	3/4" BSPP	5,3 kg
M164-500-13	24	4	8A	400W	20A	19 mm	3/4" BSPP	5,3 kg

UP8

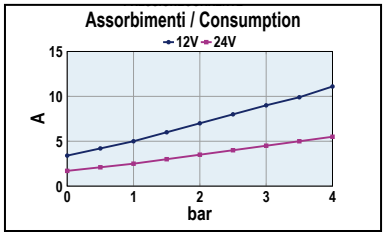
▪ Heavy duty ▪ Compact footprint

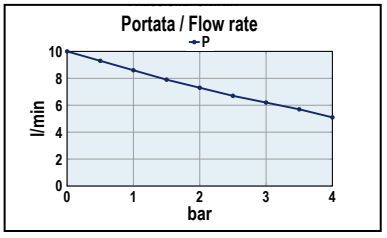


12V
24V



H 176 x L 166 x W 101 mm
H 6 7/8" x L 6 1/2" x W 4"



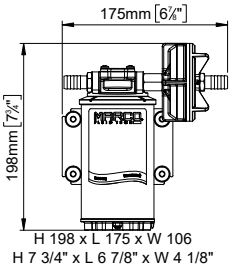


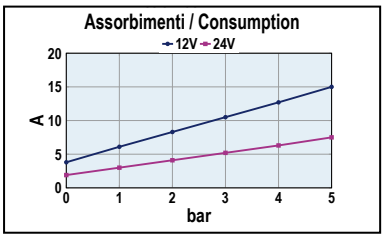
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	4 bar 58 psi
	HIGH PRESSURE

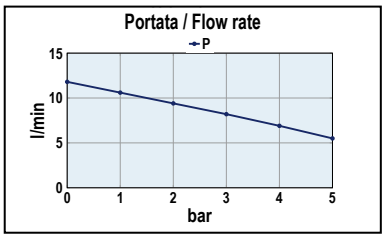
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-090-12	12	1,5	11A	150W	15A	13 mm	3/8" BSPP	1,8 kg
M164-090-13	24	1,5	5,5A	150W	7,5A	13 mm	3/8" BSPP	1,8 kg

UP9







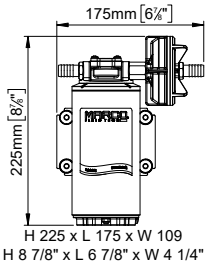


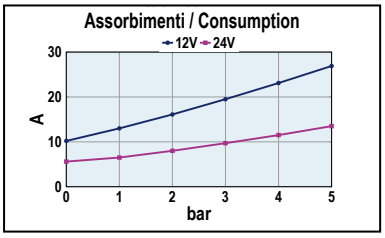
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
12 l/min 3.2 gpm	5 bar 72.5 psi HIGH PRESSURE

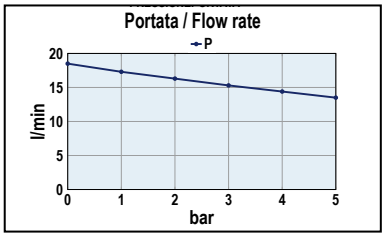
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-100-12	12	1,5	5A	180W	15A	13 mm	3/8" BSPP	2,7 kg
M164-100-13	24	1,5	3A	180W	7,5A	13 mm	3/8" BSPP	2,7 kg

UP10









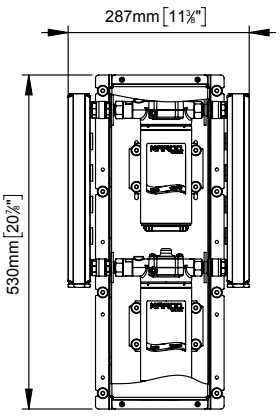
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
18 l/min 4.8 gpm	5 bar 72.5 psi HIGH PRESSURE

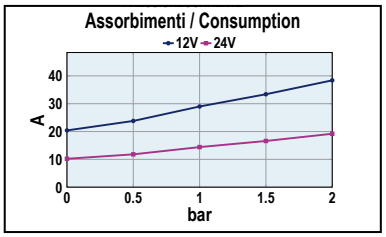
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-400-12	12	3	11A	360W	25A	13 mm	3/8" BSPP	3,8 kg
M164-400-13	24	3	5A	360W	20A	13 mm	3/8" BSPP	3,8 kg

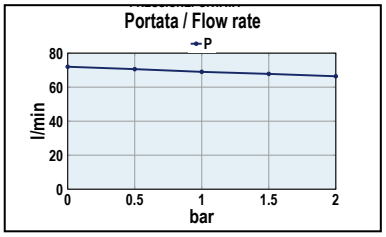
UP12-PV/DX

NEW









PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
72 l/min 19 gpm	2 bar 29 psi

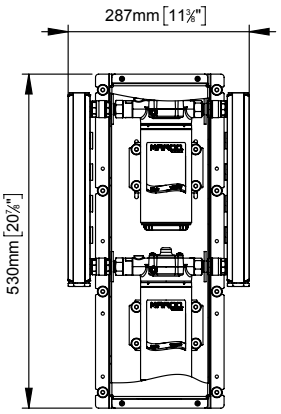
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-306-12	12	3	28A + 28A	360W	60A	--	3/4" BSPP	14,3 kg
M164-306-13	24	3	14A + 14A	360W	40A	--	3/4" BSPP	14,3 kg

UP14-PV/DX

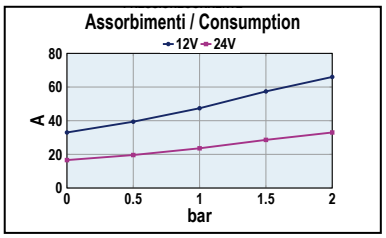
NEW

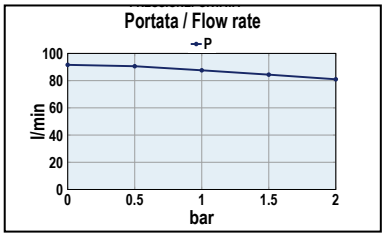


12V
24V



H 530 x L 287 x W 158
H 20 7/8" x L 11 3/8" x W 6 1/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
92 l/min 24.3 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-506-12	12	3	32A + 32A	360W	60A	--	3/4" BSPP	14,9 kg
M164-506-13	24	3	16A + 16A	360W	40A	--	3/4" BSPP	14,9 kg

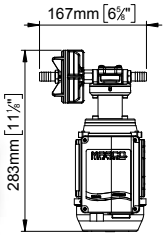
DIESEL

BRONZE GEARS 110V and 230V - AC

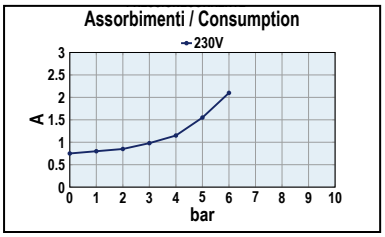
UP3/AC

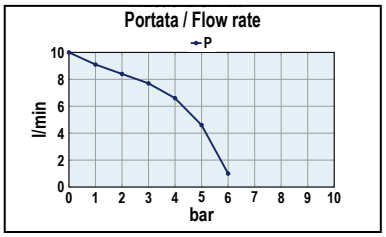


230V
110V



H 283 x L 167 x W 165
H 11 1/8" x L 6 5/8" x W 6 1/2"





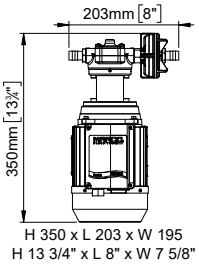
	PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
230V	10 l/min 2.6 gpm	6 bar 87 psi
110V	12 l/min 3.2 gpm	6 bar 87 psi

CODICE PART NUMBER	VOLT	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
164 001 1C	230	1,5	0,8A	150W	2A	13 mm	3/8" BSPP	4,6 kg
164 001 1B	110	1,5	1,9A	150W	4A	13 mm	3/8" BSPP	4,6 kg

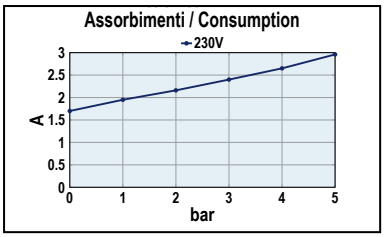
PEEK GEARS — 110V and 230V - AC

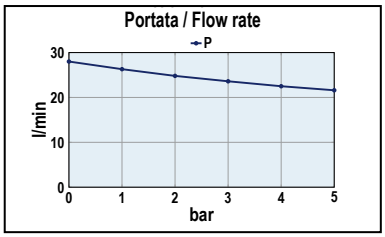
UP6/AC





H 350 x L 203 x W 195
H 13 3/4" x L 8" x W 7 5/8"



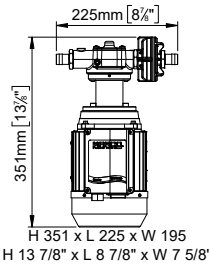


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.		CODICE PART NUMBER	VOLT	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
28 l/min *7.4 gpm*	5 bar *72.5 psi*	230V	164 061 1C	230	1,5	1,7A	550W	3A	16 mm	1/2" BSPP	7,6 kg
34 l/min *9 gpm*	5 bar *72.5 psi*	110V	164 061 1B	110	1,5	3,8A	550W	5A	16 mm	1/2" BSPP	7,6 kg

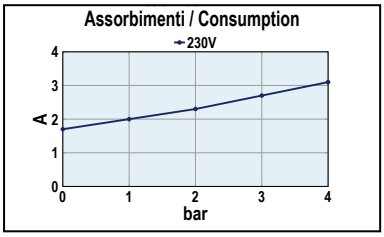
UP14/AC

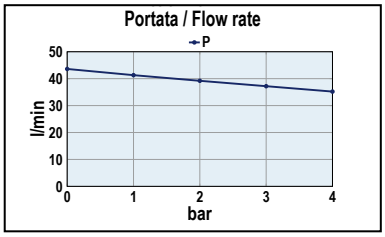
▪ High flow rate





H 351 x L 225 x W 195
H 13 7/8" x L 8 7/8" x W 7 5/8"





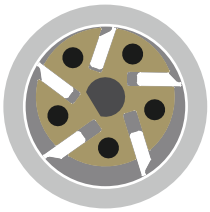
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.		CODICE PART NUMBER	VOLT	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
44 l/min *11.6 gpm*	4 bar *58 psi*	230V	164 540 1C	230	3	1,7A	550W	3A	19 mm	3/4" BSPP	8,1 kg
52,5 l/min *13.9 gpm*	4 bar *58 psi*	110V	164 540 1B	110	3	3,8A	550W	5A	19 mm	3/4" BSPP	8,1 kg

VANE PUMPS

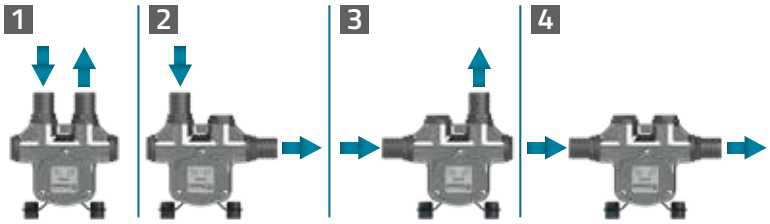
48V AVAILABLE
UPON REQUEST



SLIDING VANES



CONNECTION OPTIONS



IT Elettropompe autoadescanti a palette, complete di valvola by-pass integrata. Le palette garantiscono alta portata e cicli di lavoro prolungati. Corpo in alluminio con doppia possibilità di connessione per portagomma. Rotore e palette in resina. Albero in acciaio inossidabile. Tenute in FKM e O-ring in NBR. Calotta motore con filtro EMI. Disponibile anche dotata di carter con maniglia per facile trasporto, interruttore on-off e pinze per batteria.

DE Selbstansaugende, Elektro- Schaufelpumpen mit integriertem Bypass-Ventil. Die Schaufeln garantieren für eine erhöhte Leistung und für verlängerte Arbeitszyklen. Aluminiumkörper mit zweifacher Verbindungsmöglichkeit für Schlauchhalter. Rotor und Schaufeln sind aus Harz, Spindel aus rostfreiem Stahl, Dichtungen aus FKM und O-Ring aus NBR. Motordeckel mit EMI-Filter. Auch mit Halterung und Griff für einfachen Transport erhältlich, mit Ein- und Aus- Schalter und Batterieklammern.

FR Pompes électriques auto-amorçantes à palettes complètes de vanne by-pass intégrée. Les palettes assurent un grand débit et des cycles de travail longs. Corps en aluminium avec double option de connexion pour raccords. Rotor et palettes en résine. Arbre en acier inoxydable, joint en FKM et O-Ring en NBR. Calotte moteur équipée avec filtre EMI. Disponibles aussi avec boîtier muni de poignée pour un transport facile, interrupteur On/Off et pinces pour batterie.

EN Self-priming electric vane pumps with integrated by-pass valve. Vanes guarantee high flow rate and heavy-duty cycles. Aluminum body, two connection options. Rotor and vanes made of resin. Stainless steel shaft. FKM seals and NBR O-rings. Brush holder with EMI filter. Available also with case and handle for easy transport, On/Off switch and battery clips.

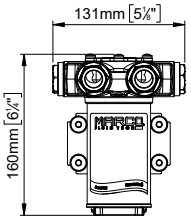
ES Electrobombas auto cebadas de paletas con válvula bypass integrada. Las paletas garantizan un caudal grande y largos ciclos de trabajo. Cuerpo en aluminio con doble posibilidad de conexión. Rotor y paletas de resina. Eje en acero inoxidable, sellos de FKM y O-ring de NBR. Tapa del motor con filtro EMI. Disponibles también con cárter y manija para fácil transporte, interruptor On/Off y pinzas para batería.

PT Eletrobombas autoapirantes de palhetas, completas de válvula by-pass integrada. As palhetas garantem um fluxo muito grande e longos ciclos de trabalho. Corpo em alumínio com dupla possibilidade de ligação. Rotor e palhetas em resina. Eixo em aço inox. Selos de FKM e O-ring de NBR. Calota motor com filtro EMI. Disponíveis também com cárter e empunhadura para fácil transporte, interruptor On/Off e pinças de alimentação.

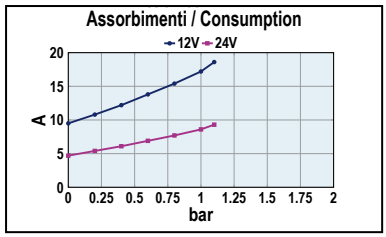
VANE PUMPS 12V and 24V - DC

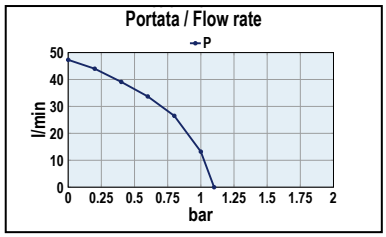
VP45-N





H 160 x L 131 x W 153
H 6 1/4" x L 5 1/8" x W 6"





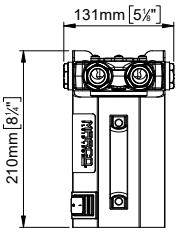
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
45 l/min 11.9 gpm	1,2 bar 17.4 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M166-026-12	12	2	8A	150W	20A	25 mm	3/4" BSPP	2 kg
M166-026-13	24	2	4A	150W	10A	25 mm	3/4" BSPP	2 kg

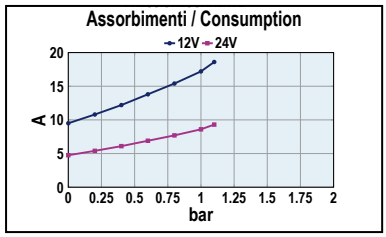
VP45

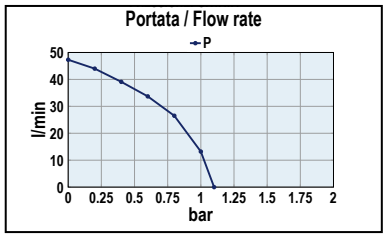
▪ Portable kit





H 210 x L 131 x W 165
H 8 1/4" x L 5 1/8" x W 6 1/2"



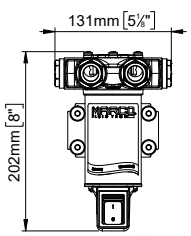


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
45 l/min 11.9 gpm	1,2 bar 17.4 psi

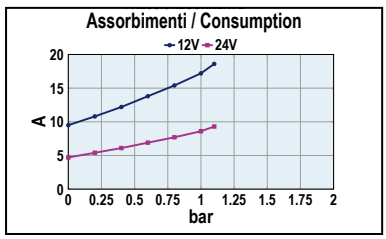
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M166-020-12	12	2	8A	150W	20A	25 mm	3/4" BSPP	3,3 kg
M166-020-13	24	2	4A	150W	10A	25 mm	3/4" BSPP	3,3 kg

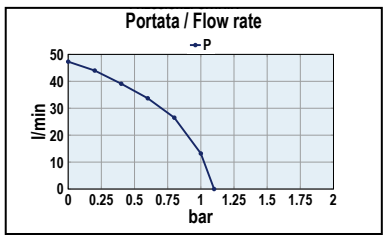
VP45-S





H 202 x L 131 x W 154
H 8" x L 5 1/8" x W 6 1/8"

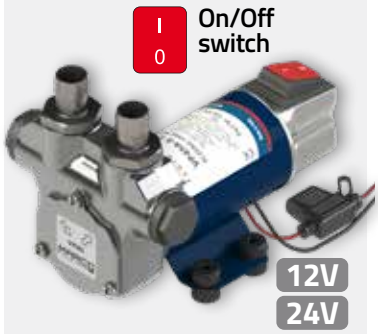


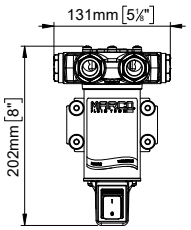


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
45 l/min 11.9 gpm	1,2 bar 17.4 psi

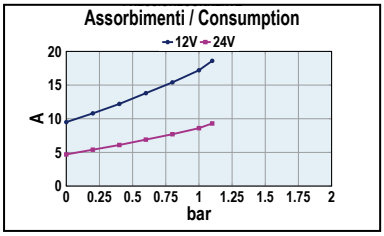
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M166-028-12	12	2	8A	150W	20A	25 mm	3/4" BSPP	2,2 kg
M166-028-13	24	2	4A	150W	10A	25 mm	3/4" BSPP	2,2 kg

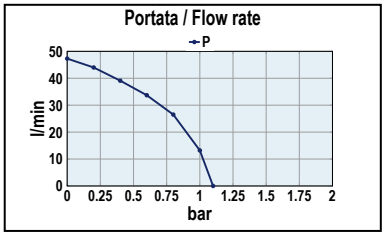
VP45A-S





H 202 x L 131 x W 154
H 8" x L 5 1/8" x W 6 1/8"





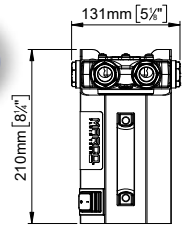
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
45 l/min 11.9 gpm	1,2 bar 17.4 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M166-029-12	12	2	8A	150W	20A	20 mm	3/4" BSPP	2,2 kg
M166-029-13	24	2	4A	150W	10A	20 mm	3/4" BSPP	2,2 kg

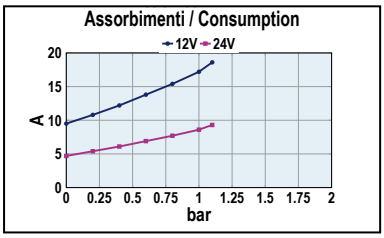
VP45-K

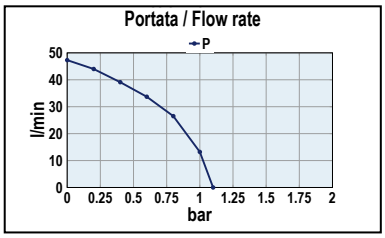
- Complete kit for refueling





H 210 x L 131 x W 165
H 8 1/4" x L 5 1/8" x W 6 1/2"





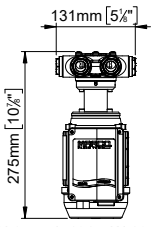
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
45 l/min 11.9 gpm	1,2 bar 17.4 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M166-024-12	12	2	8A	150W	20A	25 mm	3/4" BSPP	6,3 kg
M166-024-13	24	2	4A	150W	10A	25 mm	3/4" BSPP	6,3 kg

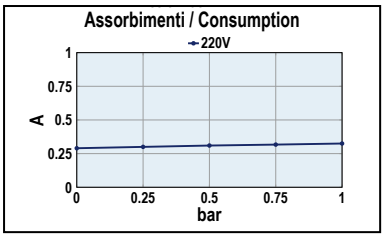
VANE PUMPS 230V - AC

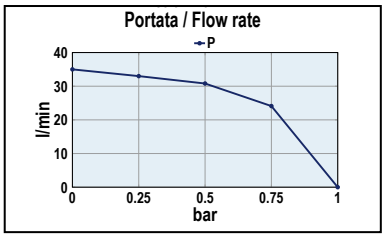
VP45/AC





H 275 x L 131 x W 165
H 10 7/8" x L 5 1/8" x W 6 1/2"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
35 l/min 9.2 gpm	1 bar 14.5 psi

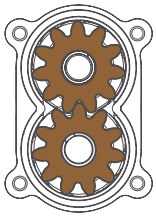
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
166 030 1C	230	1,5	0,8A	150W	1,25A	25 mm	3/4" BSPP	4,7 kg

12/24V ADJUSTABLE SPEED ELECTRONIC PRESSURE PUMPS

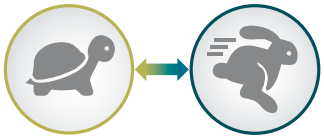
SCS Control Panel
see page 64



BRONZE GEARS



ADJUSTABLE SPEED FOR OILS AND DIESEL



LOW SPEED SETTING

HIGH SPEED SETTING

IT Elettropompe automatiche autoadescanti 12/24V con sensore di pressione elettronico per travaso diesel e olio. Ingranaggi in bronzo, valvola di non ritorno in NBR, corpo e connessioni in ottone nichelato, albero in acciaio inossidabile. Tenute in FKM e O-ring in NBR. Gli ingranaggi elicoidali in bronzo garantiscono pressione costante, cicli di lavoro prolungati, maggiore silenziosità e possono operare anche in mancanza di liquido. Impostazione standard dell'elettronica in modalità "High speed" per travaso diesel. **Il pannello di controllo SCS integrato consente l'impostazione in modalità "Low Speed" per travaso di olio e liquidi viscosi.**

DE Automatische, selbstansaugende Elektropumpen 12/24V mit elektronischem Drucksensor zum Umfüllen von Diesel und Öl. Bronzezahnräder, Rückschlagventil aus NBR, Gehäuse und Verbindungen aus vernickeltem Messing, Spindel aus rostfreiem Stahl. Dichtungen aus FKM und O-Ring aus NBR. Die Bronze- Schrägzahnräder garantieren für einen konstanten Druck, für längere Arbeitszyklen, für Geräuschreduzierung und können auch ohne Flüssigkeit arbeiten. Elektronische Standardeinstellung im "High Speed"-Modus beim Umfüllen von Diesel. **Das integrierte Kontrollpaneel SCS, ermöglicht einen "Low-Speed"-Modus beim Umfüllen von Ölen und anderen zähflüssigen Flüssigkeiten.**

FR Pompes électriques automatiques auto-amorçantes 12/24V avec contrôle électronique pour le transfert de diesel et huile. Vanne anti-retour en NBR, corps et raccords en laiton nickelé, arbre en acier inoxydable, joint en FKM et O-Ring en NBR. Les engrenages hélicoïdaux en bronze assurent une pression constante, des cycles de travail longs, moins de bruit et peuvent également fonctionner en l'absence de liquide. La pompe est réglée en mode "High Speed" pour le transfert de diesel. **Le panneau de contrôle SCS intégré permet la mise en "Low Speed" pour le transfert de huile et de liquides visqueux.**

EN Self-priming automatic electric pumps, 12/24V, with electronic control for the transfer of diesel and oil. Bronze gears, NBR check valve, body and connections in nickeled brass, stainless steel shaft. FKM seals and NBR O-rings. Helical bronze gears guarantee constant pressure, heavy duty cycles, less noise and can operate in the absence of liquid. The pumps are supplied with a "High-Speed" setting for Diesel transfer. **The integrated SCS control panel allows the switch to the "Low-Speed" mode for the transfer of oil and viscous liquids.**

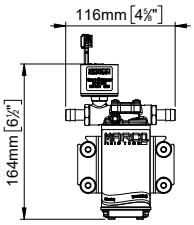
ES Electrobombas automáticas auto-cebadas, 12/24V, con control electrónico para transvase de diésel y aceite. Engranajes de bronce, válvula de retención de NBR, cuerpo y conexiones en latón niquelado, eje en acero inoxidable. Sellos de FKM y O-ring de NBR. Los engranajes helicoidales de bronce garantizan presión constante, largos ciclos de trabajo, menos ruido y pueden operar en ausencia de líquido. La electrónica está configurada en modalidad "High Speed" para el transvase de diésel. **El panel de control SCS integrado permite el cambio a la modalidad "Low Speed" para transvase de aceite y líquidos viscosos.**

PT Eletrobombas automáticas autoaspirantes, 12/24V, com controle eletrônico para trasfega de diesel e óleos. Engrenagens em bronze, válvula de retenção em NBR, corpo e ligações em latão niquelado, eixo em aço inox. Selos de FKM e O-ring de NBR. As engrenagens helicoidais de bronze garantem uma pressão constante, longos ciclos de trabalho, menos ruído e também podem funcionar sem líquido. As bombas são fornecidas na modalidade "High Speed" para trasfega do diesel. **O painel de controle SCS integrado permite a mudança para a modalidade "Low Speed" para a trasfega de óleos e líquidos viscosos.**

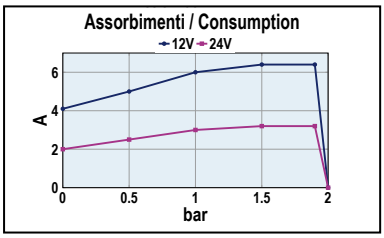
12/24V ADJUSTABLE SPEED ELECTRONIC PRESSURE PUMPS

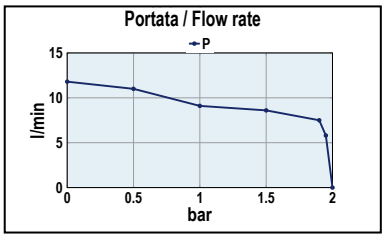
UP2/E-BR





H 164 x L 116 x W 81
H 6 1/2" x L 4 5/8" x W 3 1/4"



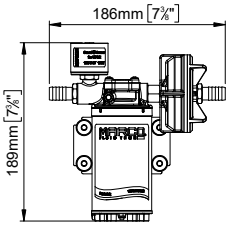


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
12 l/min *2.6 gpm*	2 bar *29 psi*

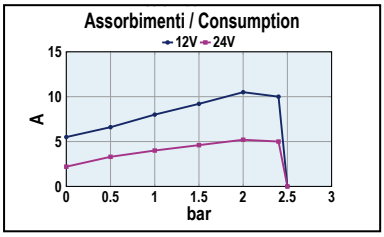
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-700-15	12/24	1,5	6A / 3A	90W	15A	12 mm	3/8" BSPP	1,3 kg

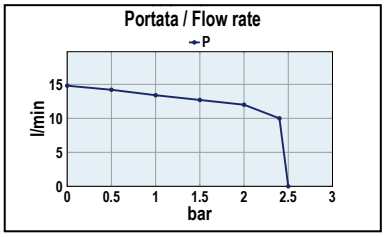
UP3/E-BR





H 189 x L 186 x W 101
H 7 3/8" x L 7 3/8" W x 4"



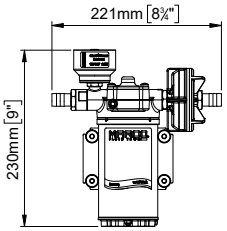


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min *4 gpm*	2,5 bar *36 psi*

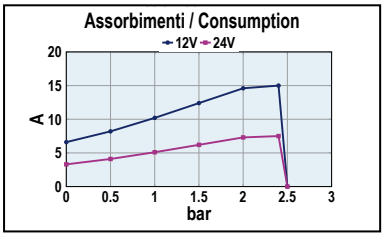
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-710-15	12/24	1,5	6A / 3A	150W	15A	13 mm	3/8" BSPP	2 kg

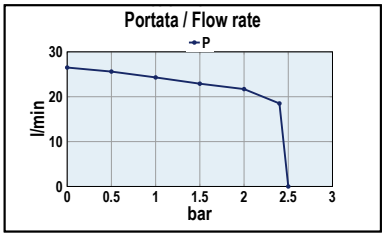
UP6/E-BR





H 230 x L 221 x W 111
H 9" x L 8 3/4" x W 4 3/8"



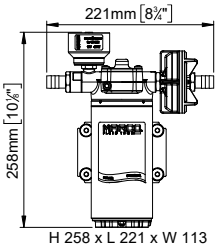


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
26 l/min *6.9 gpm*	2,5 bar *36 psi*

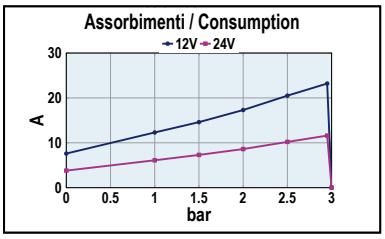
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-720-15	12/24	2	10A / 5A	180W	20A	16 mm	1/2" BSPP	3,7 kg

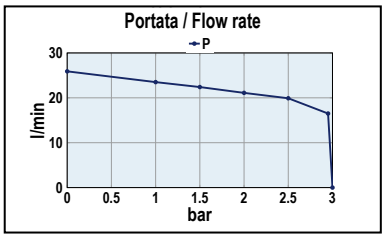
UP12/E-LOBR





H 258 x L 221 x W 113
H 10 1/8" x L 8 3/4" x W 4 1/2"



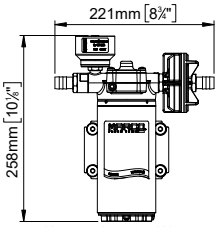


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
26 l/min 6.9 gpm	3 bar 43.5 psi

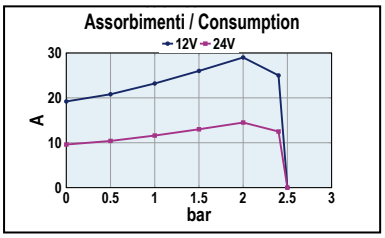
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-751-15	12/24	3	8A / 4A	360W	25A	16 mm	1/2" BSPP	4,6 kg

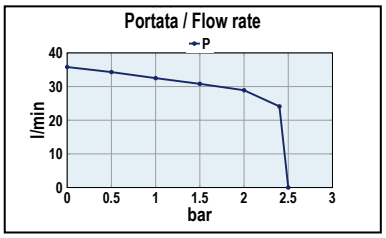
UP12/E-BR





H 258 x L 221 x W 113
H 10 1/8" x L 8 3/4" x W 4 1/2



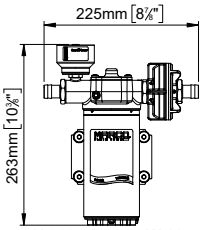


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
36 l/min 9.5 gpm	2,5 bar 36 psi

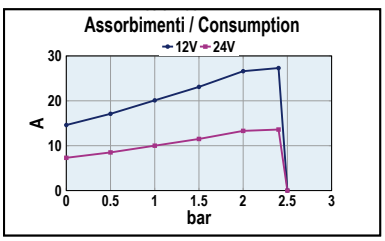
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-750-15	12/24	3	14A / 7A	360W	30A	16 mm	1/2" BSPP	4,9 kg

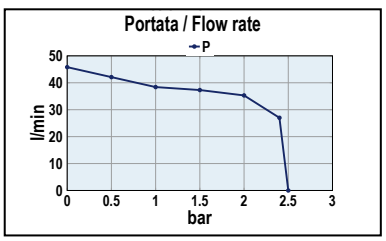
UP14/E-BR





H 263 x L 225 x W 119
H 10 3/8" x L 8 7/8" x W 4 5/8"



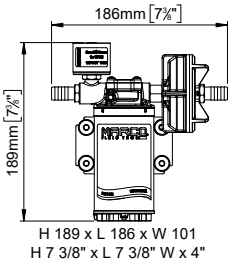


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
46 l/min 12 gpm	2,5 bar 36 psi

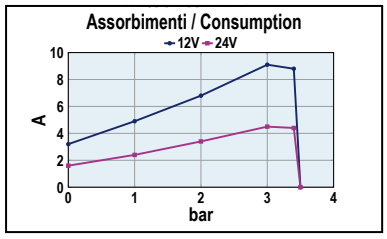
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-760-15	12/24	4	16A / 8A	400W	30A	16 mm	3/4" BSPP	5,2 kg

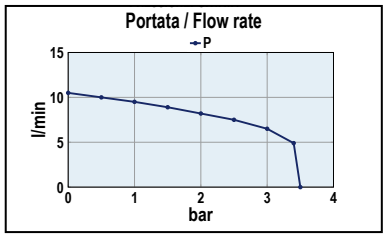
UP8/E-BR





H 189 x L 186 x W 101
H 7 3/8" x L 7 3/8" W x 4"



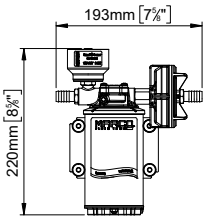


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	3,5 bar 50.8 psi HIGH PRESSURE

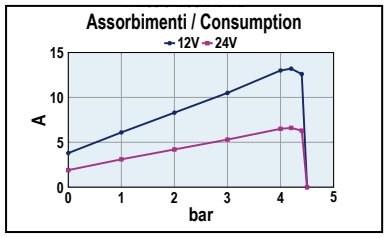
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-725-15	12/24	1,5	11A /5,5A	150W	15A	13 mm	3/8" BSPP	2,1 kg

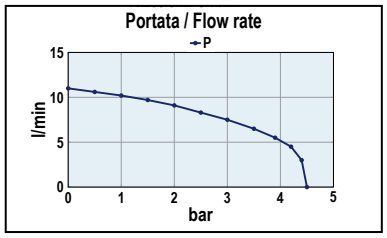
UP9/E-BR





H 220 x L 193 x W 106
H 8 5/8" x L 7 5/8" W x 4 1/8"



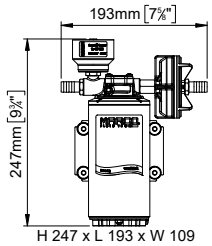


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
12 l/min 3.2 gpm	4,5 bar 65.3 psi HIGH PRESSURE

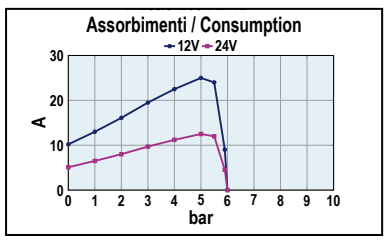
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-730-15	12/24	1,5	5A / 2,5A	180W	15A	13 mm	3/8" BSPP	3,3 kg

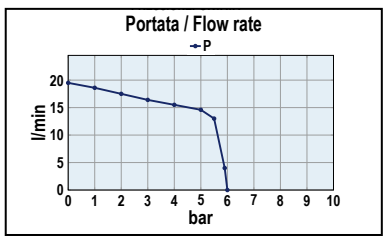
UP10/E-BR





H 247 x L 193 x W 109
H 9 3/4" x L 7 5/8" W x 4 1/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
18 l/min 4.8 gpm	6 bar 87 psi HIGH PRESSURE

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-740-15	12/24	3	11A / 5,5A	360W	25A	13 mm	3/8" BSPP	4,3 kg





SCS SPEED CONTROL SYSTEM

TIPO TYPE	CODICE PART NUMBER	VOLT	DIMENSIONI DIMENSIONS mm	FORO HOLE mm	CONNESSIONE CONNECTION	PROTEZIONE PROTECTION
SCS	M165-204-15	12/24	80 x 80 x 46	Ø 70	RJ11	IP65

IT Il pannello di controllo SCS consente di impostare le funzioni della pompa elettronica in modalità DIESEL "High Speed" o in modalità OLIO "Low Speed". Tale impostazione viene mantenuta anche quando il pannello è scollegato.
Caratteristiche:
- Il pannello rende possibile una regolazione fine della velocità massima per ottenere portate differenti o per utilizzare la pompa con liquidi di viscosità diversa da quella preimpostata.
- Monitoraggio a distanza del funzionamento della pompa ed interazione con essa: verifica della presenza di liquido e reset in caso di malfunzionamento senza togliere alimentazione.
- Connessione rapida del pannello al cavo di 3m con attacco RJ11/6 integrato nel sensore della pompa.
- Possibilità di montaggio ad incasso con foro circolare di diametro 70mm o di montaggio esterno.
- Morsettiera che permette di replicare i pulsanti e i LED presenti sul pannello su un circuito esterno: questo permette di gestire in modo personalizzato le funzionalità su un dispositivo progettato da terze parti.

DE Das SCS Kontroll- Paneel ermöglicht es, die elektronische Pumpe auf den Diesel-Modus "High Speed" oder auf den Öl-Modus "Low Speed" einzustellen. Diese Einstellung verändert sich auch bei abgeschaltetem Paneel nicht.
Eigenschaften:
- Es erlaubt eine feine Einstellung der Höchstgeschwindigkeit, um verschiedene Förderleistungen zu ermöglichen, oder um die Pumpe für diejenigen Flüssigkeiten zu gebrauchen, die eine andere Viskosität vorweisen als die voreingestellte.
- Fernüberwachung des Pumpenlaufs und deren Fernsteuerung: kontrolliert das Vorhandensein von Flüssigkeit, bei Fehlbetrieb schaltet sich die Reset-Funktion ein, ohne alles ausschalten zu müssen.
- Schnellverbindung des Paneels an das 3m RJ11/6 Kabel, das in dem Pumpensensor integriert ist.
- Einbaumöglichkeit in rundem, 70mm- Durchmesser Loch oder externe Montage.
- Mit dem Verteiler kann man die Knöpfe und LEDs des Paneels auf einen externen Kreis wiedergeben: dieses ermöglicht eine individuelle Einstellung der Funktionen auf einer externen Vorrichtung, die von Dritten entworfen wurde.

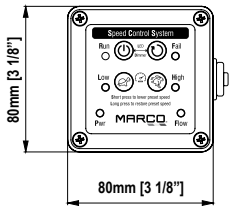
FR Le panneau de commande SCS permet le réglage des fonctions de la pompe électronique en mode DIESEL "High Speed" ou en mode OIL "Low Speed". Ce réglage d'origine est conservé même lorsque le panneau est déconnecté.
Les caractéristiques :
- Le panneau permet une mise au point de la vitesse maximale afin d'obtenir différents débits ou d'utiliser la pompe avec des liquides d'une viscosité différent de la programmation original.
- Surveillance à distance de fonctionnement de la pompe et de l'interaction avec elle: la vérification de la présence de liquide et réinitialiser en cas de dysfonctionnement sans débrancher l'appareil.
- Connexion rapide du panneau au câble de 3m avec terminal à l'RJ11/6, intégré dans le capteur de la pompe.
- Le panneau peut être encastré dans un trou circulaire d'un diamètre de 70 mm ou monté à l'extérieur .
- Le bornier permet à l'utilisateur de reproduire les boutons et les LEDS du panneau sur un circuit externe favorisant ainsi une gestion personnalisée des fonctions grâce à un dispositif externe conçu par des tiers.

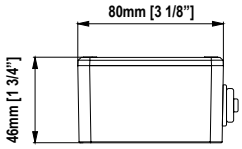
EN The SCS control panel allows for the setting of the functions of the electronic pump in DIESEL "High Speed" mode or in OIL "Low Speed" mode. This original setting is kept also when the panel is disconnected. Characteristics:
- The panel assures a fine-tuning of the maximum speed in order to obtain various flow rates or to use the pump with liquids of a viscosity different from the original set one.
- Remote monitoring of the pump operation and interaction with it: checking of liquid presence and reset in case of malfunction without disconnecting the device.
- Quick connection of the panel to the 3m RJ11/6 terminal cable integrated in the sensor of the pump.
- The panel can be recessed in a circular hole of a 70mm diameter or externally mounted.
- The terminal block allows the user to replicate the buttons and LEDs of the panel on an external circuit thus favoring a personalized management of the functions through an external device designed by third parties.

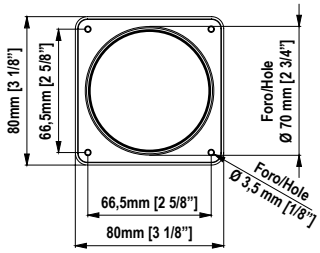
ES El panel de control SCS permite la configuración de las funciones de la bomba electrónica en modalidad DIESEL "High Speed" o en modalidad ACEITE "Low Speed". Esta configuración original se mantiene también cuando se desconecta el panel. Características:
- El panel asegura un ajuste fino de la velocidad máxima con el fin de obtener diferentes caudales o para utilizar la bomba con líquidos de una viscosidad diferente de la programada en origen.
- Monitorización remota del funcionamiento de la bomba e interacción con ella: Comprobación de la presencia de líquido y reinicio en caso de avería sin necesidad de desconectar el dispositivo.
- Conexión rápida del panel al cable de 3m con terminal RJ11/6, integrado en el sensor de la bomba.
- El panel puede ser empotrado dentro de un orificio circular de un diámetro de 70 mm o montado externamente.
- El bloque de terminales permite al usuario reproducir los botones y LEDS del panel en un circuito externo: esto permite una gestión personalizada de las funciones a través de un dispositivo externo diseñado por terceros.

PT O painel de controle SCS permite a configuração das funções da bomba eletrônica na modalidade DIESEL "High Speed" ou na modalidade OIL "Low Speed". Esta configuração original é mantida também quando o painel estiver desligado.
Características:
- O painel garante um ajuste fino da velocidade máxima de forma a obter diferentes taxas de fluxo ou para se usar a bomba com líquidos de viscosidade diferente do inicialmente programado.
- Monitoramento remoto do funcionamento da bomba e interação com a mesma: verificação da presença de líquido e reinicio em caso de funcionamento defeituoso sem desligar o dispositivo.
- Ligação rápida do painel ao cabo de 3m com terminal RJ11 / 6, integrado no sensor da bomba.
- O painel pode ser embutido num orifício circular com um diâmetro de 70 mm ou montado externamente.
- Um bloco de terminais permite replicar os botões e LEDs do painel num circuito externo: isto permite controlar individualmente as funções num dispositivo projetado por terceiros.

DIMENSIONI DIMENSIONS







12/24V REVERSIBLE ELECTRONIC PUMPS

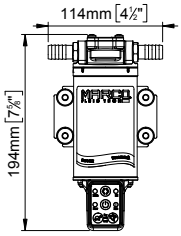
UP8-RE

- Integrated Smart Keypad for Flow Rate Fine Tuning
- Digital Thermal Protection

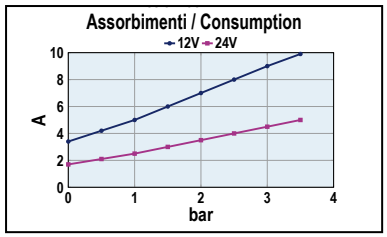
VIDEO www.marco.it

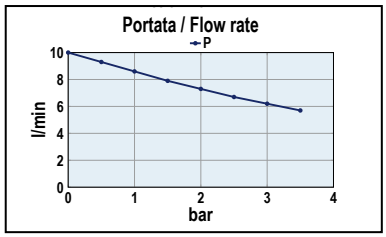






H 194 x L 114 x W 89
H 7 5/8" x L 4 1/2" x W 3 1/2"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	3,5 bar 50.8 psi

HIGH PRESSURE

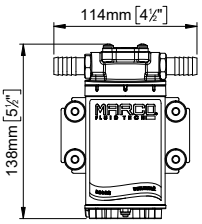
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-095-15	12/24	1,5	11A / 5,5A	150W	15A	13 mm	3/8" BSPP	2,2 kg

UP3-RK

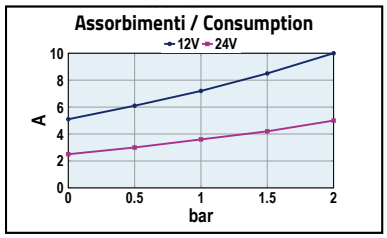
- Available with 1 or 2 valves (see page 79)

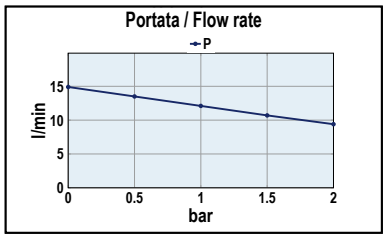






H 138 x L 114 x W 82
H 5 1/2" x L 4 1/2" x W 3 1/4"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	2 bar 29 psi

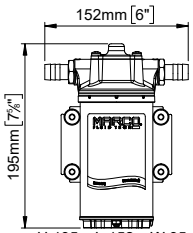
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-005-15	12/24	1,5	6A / 3A	120W	10A	13 mm	3/8" BSPP	2,1 kg

UP6-RK

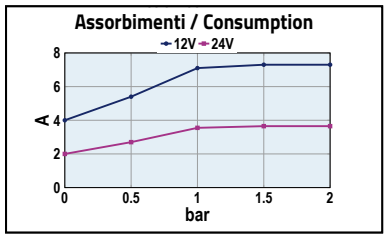
- Available with 1 or 2 valves (see page 79)

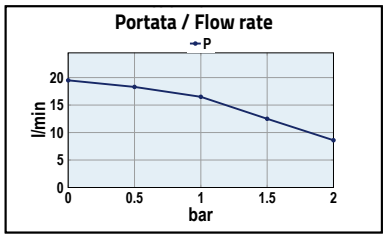






H 195 x L 152 x W 95
H 7 5/8" x L 6" x W 3 3/4"



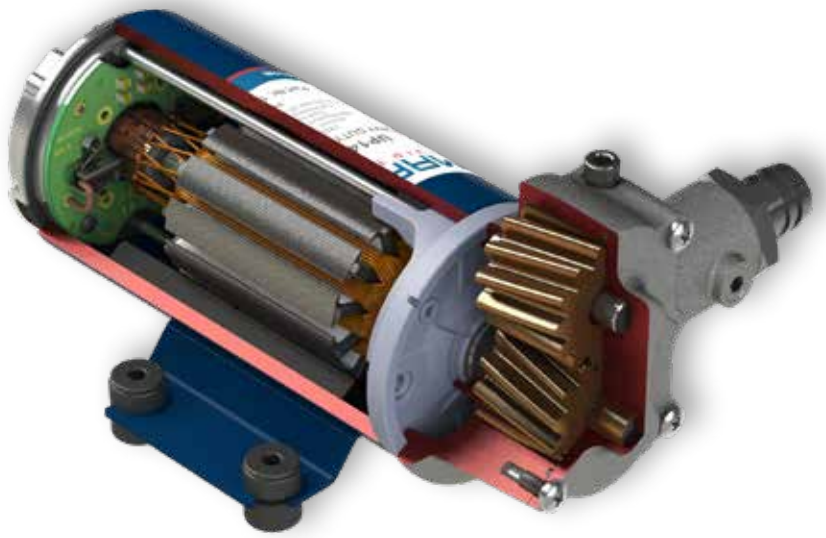


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
20 l/min 5.3 gpm	2 bar 29 psi

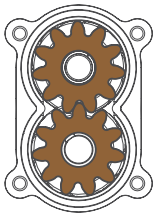
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-064-15	12/24	2	7A / 3,5A	180W	10A	16 mm	1/2" BSPP	3,6 kg

BRONZE GEAR PUMPS

48V AVAILABLE
UPON REQUEST



BRONZE GEARS



REVERSIBLE



IT Elettropompe ad ingranaggi in bronzo per travaso di oli lubrificanti o di liquidi viscosi. Gli ingranaggi elicoidali in bronzo garantiscono pressione costante, cicli di lavoro prolungati, maggiore silenziosità e possono operare anche in mancanza di liquido. Corpo in ottone nichelato, albero in acciaio inossidabile. Tenute in FKM e O-ring in NBR. Disponibili in versioni con interruttore o deviatore integrati, kit con interruttore cavi e pinze per batteria e kit con controllo elettronico.

DE Selbstansaugende, kleine Elektropumpen mit Bronzezahnrädern, zum Umfüllen von Ölen oder dickflüssigen Flüssigkeiten. Die Bronze- Schrägzahnräder garantieren konstanten Druck, verlängerte Arbeitszyklen, sind geräuschloser und können auch ohne Flüssigkeit arbeiten. Gehäuse aus vernickeltem Messing, Spindel aus rostfreiem Stahl. Dichtungen aus FKM, O-Ringe aus NBR. Erhältlich entweder mit integriertem Ein- und Aus Schalter oder 3-Positionen- Schalter, oder Kit mit Schalter, Kabel und Batteriezangen, oder Kit mit elektronischer Kontrolle.

FR Pompes électriques auto-amorçantes avec engrenages en bronze pour transvasement d'huiles lubrifiants et de liquides visqueux. Les engrenages hélicoïdaux en bronze assurent une pression constante, des cycles de travail longs, moins de bruit et peuvent également fonctionner en l'absence de liquide. Corps en laiton nickelé et arbre en acier inoxydable. Joint en FKM et O-Ring en NBR. Disponibles en versions avec interrupteur ou déviateur intégrés, kit avec interrupteur et pinces pour batterie, et kit avec contrôle électronique.

EN Self-priming electric pumps with bronze gears to transfer lubricating oils and viscous liquids. Helical bronze gears guarantee constant pressure, heavy duty cycles, less noise and can operate in the absence of liquid. Nickel-plated brass body and stainless steel shaft. FKM seals and NBR O-rings. Available in versions with integrated on-off switch or flow reverser switch, kit with on-off switch and battery clips, and kit with electronic control.

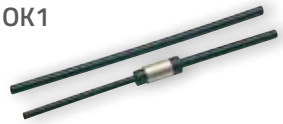
ES Electrobombas auto cebadas con engranajes en bronce para transvase aceites lubricantes o líquidos viscosos. Los engranajes helicoidales de bronce garantizan presión constante, largos ciclos de trabajo, menos ruido y pueden operar en ausencia de líquido. Cuerpo en latón niquelado, eje en acero inoxidable. Sellos en FKM y O-ring and NBR. Disponibles en versiones con interruptor o desviador de flujo integrados, Kit con interruptor y pinzas para batería y Kit con control electrónico.

PT Eletrobombas autoaspirantes com engrenagens em bronze para trasfega de óleos lubrificantes e líquidos viscosos. As engrenagens helicoidais de bronze garantem uma pressão constante, longos ciclos de trabalho, menos ruído e também podem funcionar, sem líquido. Corpo em latão niquelado, eixo em aço inox. Selos de FKM e O-ring de NBR. Disponíveis em versões com interruptor on-off ou desviador de fluxo integrados, kit com interruptor e pinças de bateria, e kit com controle eletrônico.

Spare parts and accessories

Page 79

OK1

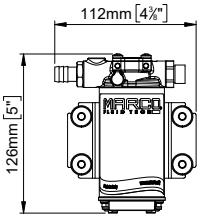


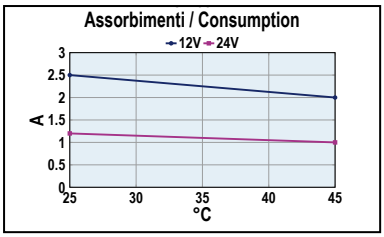
BRONZE GEARS 12V and 24V - DC

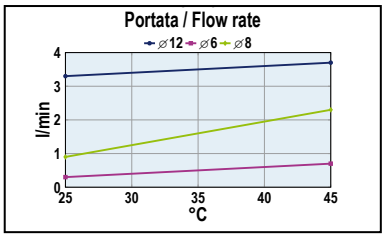
UP2/OIL



12V
24V







PORTATA* FLOW RATE* max.	PRESSIONE PRESSURE max.
3,3 l/min 0.9 gpm	1,5 bar 22 psi

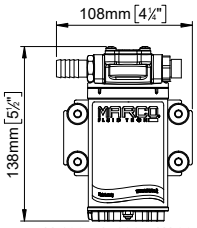
* OIL SAE 30 AT 25°C

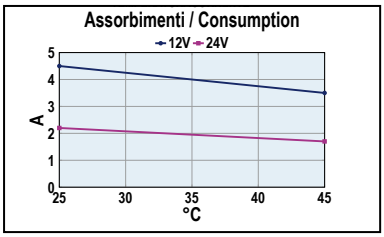
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-220-12	12	1	2,5A	90W	3A	12 mm	3/8" BSPP	1,2 kg
M164-220-13	24	1	1,3A	90W	1,5A	12 mm	3/8" BSPP	1,2 kg

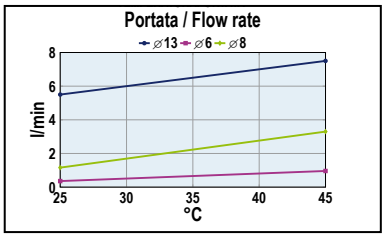
UP3/OIL



12V
24V







PORTATA* FLOW RATE* max.	PRESSIONE PRESSURE max.
5,5 l/min 1.5 gpm	2 bar 29 psi

* OIL SAE 30 AT 25°C

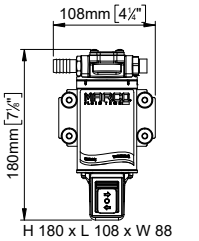
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-020-12	12	1	5A	90W	7,5A	13 mm	3/8" BSPP	1,4 kg
M164-020-13	24	1	3A	90W	4A	13 mm	3/8" BSPP	1,4 kg

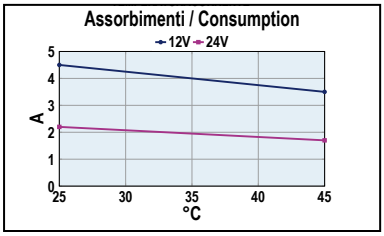
UP3/OIL-R

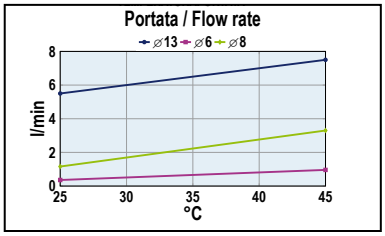
On/Off 3 positions reversing switch



12V
24V







PORTATA* FLOW RATE* max.	PRESSIONE PRESSURE max.
5,5 l/min 1.5 gpm	2 bar 29 psi

* OIL SAE 30 AT 25°C

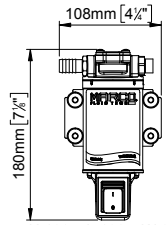
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-022-12	12	1	5A	90W	10A	13 mm	3/8" BSPP	1,8 kg
M164-022-13	24	1	3A	90W	5A	13 mm	3/8" BSPP	1,8 kg

UP3/OIL-S

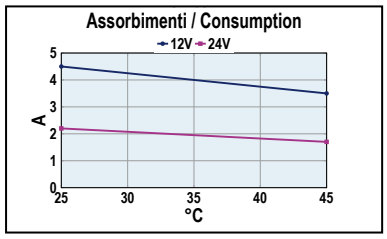
I
0
On/Off switch

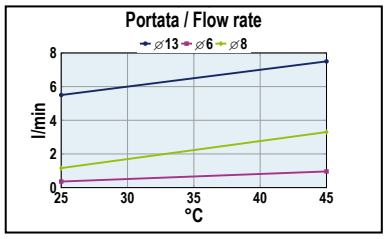


12V
24V



H 180 x L 108 x W 88
H 7 1/8" x L 4 1/4" x W 3 1/2"





PORTATA* FLOW RATE* max.	PRESSIONE PRESSURE max.
5,5 l/min 1.5 gpm	2 bar 29 psi

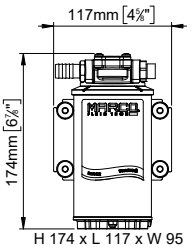
* OIL SAE 30 AT 25°C

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-024-12	12	1	5A	90W	7,5A	13 mm	3/8" BSPP	1,8 kg
M164-024-13	24	1	3A	90W	4A	13 mm	3/8" BSPP	1,8 kg

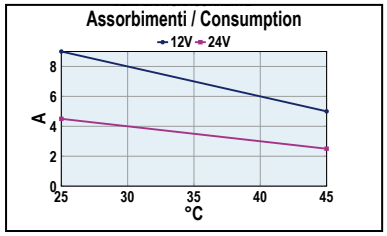
UP9/OIL (ex UP6/OIL)

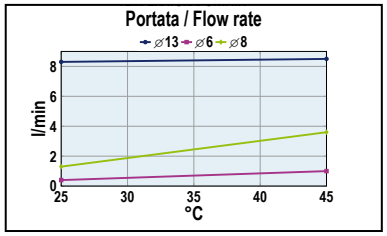


12V
24V



H 174 x L 117 x W 95
H 6 7/8" x L 4 5/8" x W 3 3/4"





PORTATA* FLOW RATE* max.	PRESSIONE PRESSURE max.
9 l/min 2.4 gpm	5 bar 72.5 psi
	HIGH PRESSURE

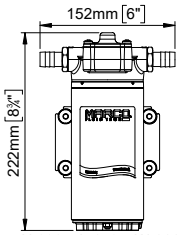
* OIL SAE 30 AT 25°C

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-080-12	12	1,5	7A	180W	10A	13 mm	3/8" BSPP	2,5 kg
M164-080-13	24	1,5	4A	180W	7,5A	13 mm	3/8" BSPP	2,5 kg

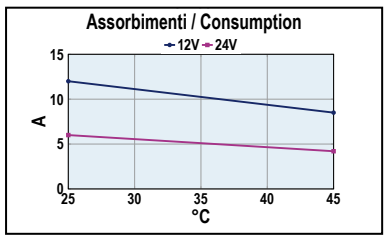
UP12/OIL

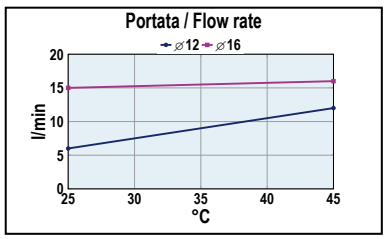


12V
24V



H 222 x L 152 x W 111
H 8 3/4" x L 6" x W 4 3/8"





PORTATA* FLOW RATE* max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	3 bar 43.5 psi

* OIL SAE 30 AT 25°C

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-320-12	12	2	11A	180W	15A	16 mm	1/2" BSPP	4,5 kg
M164-320-13	24	2	6A	180W	7,5A	16 mm	1/2" BSPP	4,5 kg

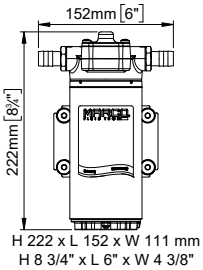
UP12-LO

▪ For light oils

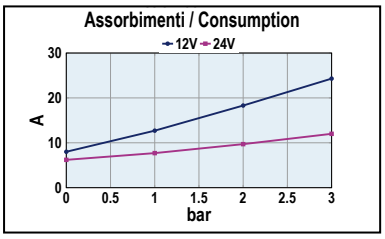
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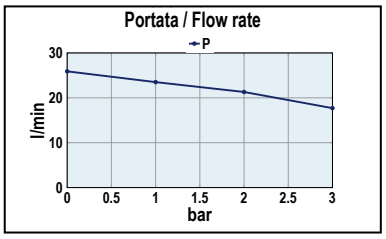


12V
24V



H 222 x L 152 x W 111 mm
H 8 3/4" x L 6" x W 4 3/8"





PORTATA** FLOW RATE** max.	PRESSIONE PRESSURE max.
22 l/min 5.8 gpm	3 bar 43.5 psi

** T46 OIL

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-322-12	12	3	19A	360W	25A	16 mm	1/2" BSPP	4,5 kg
M164-322-13	24	3	11A	360W	15A	16 mm	1/2" BSPP	4,5 kg

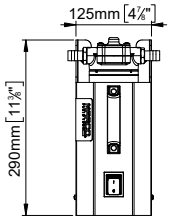
UP12-LOCK

▪ For light oils ▪ Portable kit with battery clips

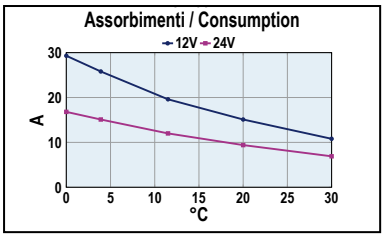
I
0
On/Off switch

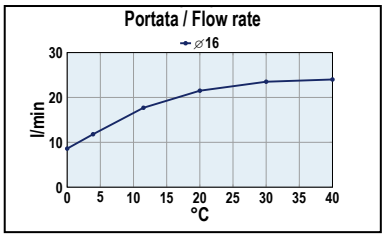


12V
24V



H 290 x L 125 x W 156 mm
H 11 3/8" x L 4 7/8" x W 6 1/8"





PORTATA** FLOW RATE** max.	PRESSIONE PRESSURE max.
22 l/min 5.8 gpm	3 bar 43.5 psi

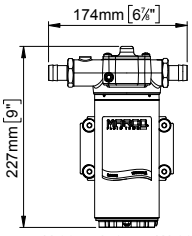
** T46 OIL

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-324-12	12	3	19A	360W	25A	16 mm	1/2" BSPP	6 kg
M164-324-13	24	3	11A	360W	15A	16 mm	1/2" BSPP	6 kg

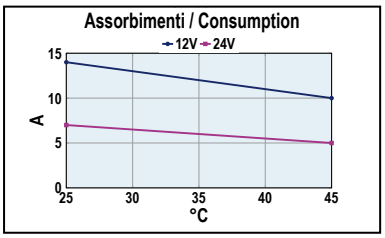
UP14/OIL

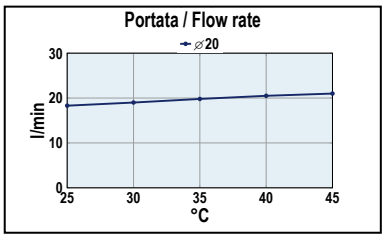


12V
24V



H 227 x L 174 x W 119
H 9" x L 6 7/8" x W 4 5/8"





PORTATA* FLOW RATE* max.	PRESSIONE PRESSURE max.
18,3 l/min 4.8 gpm	2 bar 29 psi

* OIL SAE 30 AT 25°C

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-520-12	12	2	14A	260W	20A	20 mm	3/4" BSPP	5,3 kg
M164-520-13	24	2	7A	260W	15A	20 mm	3/4" BSPP	5,3 kg

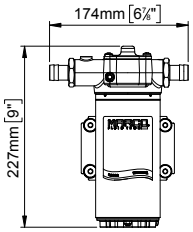
UP14-LO

▪ For light oils

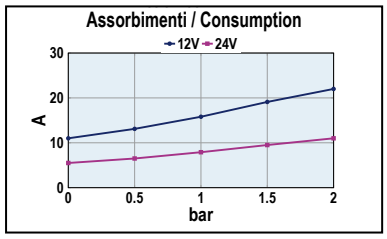
NEW

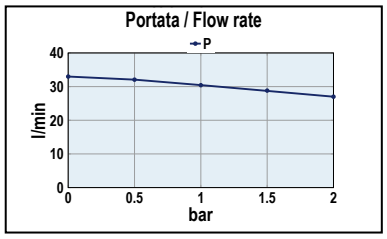


12V
24V



H 227 x L 174 x W 119
H 9" x L 6 7/8" x W 4 5/8"





PORTATA** FLOW RATE** max.	PRESSIONE PRESSURE max.
33 l/min 8.7 gpm	2 bar 29 psi

** T46 OIL

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-522-12	12	2	18A	260W	25A	20 mm	3/4" BSPP	5,3 kg
M164-522-13	24	2	9,7A	260W	15A	20 mm	3/4" BSPP	5,3 kg

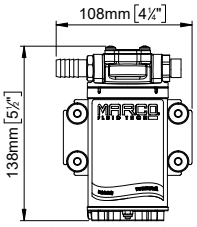
OIL CHANGE KITS

OCK1

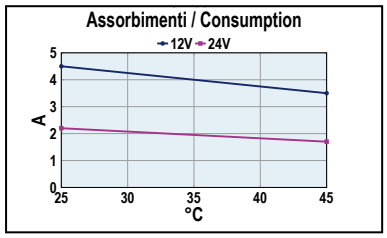
▪ Complete kit with battery clips

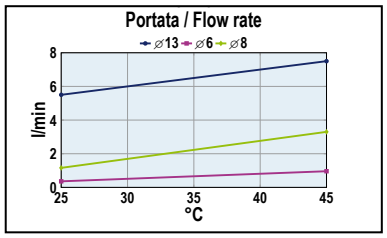


12V
24V



H 138 x L 108 x W 89
H 5 1/2" x L 4 1/4" x W 3 1/2"





PORTATA* FLOW RATE* max.	PRESSIONE PRESSURE max.
5,5 l/min 1.5 gpm	2 bar 29 psi

* OIL SAE 30 AT 25°C

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-930-12	12	1	6A	90W	10A	13 mm	3/8" BSPP	1,7 kg
M164-930-13	24	1	3A	90W	5A	13 mm	3/8" BSPP	1,7 kg

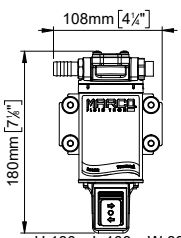
OCK1-R

▪ Complete kit with battery clips

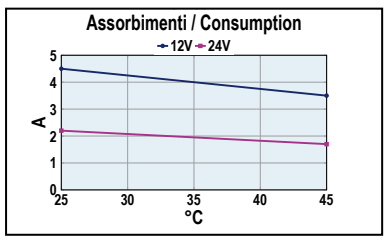
On/Off 3 positions reversing switch

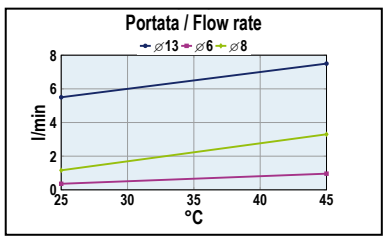


12V
24V



H 180 x L 108 x W 89
H 7 1/8" x L 4 1/4" x W 3 1/2"





PORTATA* FLOW RATE* max.	PRESSIONE PRESSURE max.
5,5 l/min 1.5 gpm	2 bar 29 psi

* OIL SAE 30 AT 25°C

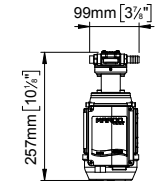
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-932-12	12	1	5A	90W	10A	13 mm	3/8" BSPP	1,4 kg
M164-932-13	24	1	3A	90W	5A	13 mm	3/8" BSPP	1,4 kg

BRONZE GEARS 230V and 400V - AC

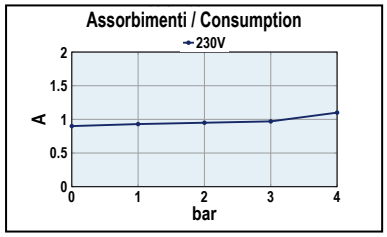
UP3/OIL-AC

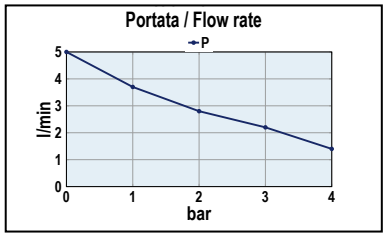
NEW





H 257 x L 99 x W 165
H 10 1/8" x L 3 3/7" X W 6 1/2"



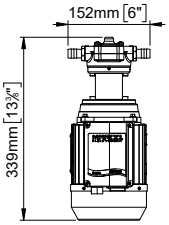


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
230V 5 l/min 1.3 gpm	4 bar 58 psi
	HIGH PRESSURE

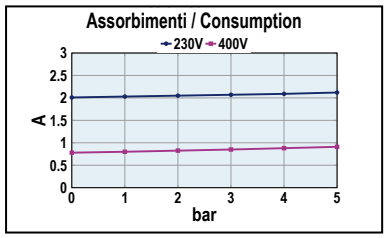
CODICE PART NUMBER	VOLT	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
164 023 1C	230	1,5	1A	250W	2A	13 mm	3/8" BSPP	4,7 kg

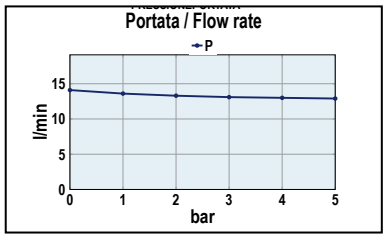
UP6/OIL-AC





H 339 x L 152 x W 195
H 13 3/8" x L 6" x W 7 5/8"



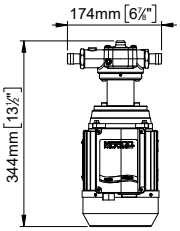


PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
230V 14 l/min 3.7 gpm	5 bar 72.5 psi
400V 14 l/min 3.7 gpm	5 bar 72.5 psi
	HIGH PRESSURE

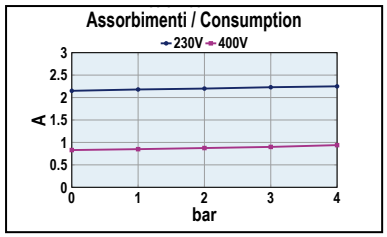
CODICE PART NUMBER	VOLT	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
164 081 1C	230	1	2A	370W	3A	16 mm	1/2" BSPP	7,6 kg
164 081 1F	400	1,5	0,8A	370W	1A	16 mm	1/2" BSPP	7,6 kg

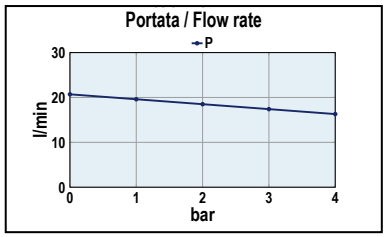
UP14/OIL-AC





H 344 x L 174 x W 195
H 13 1/2" x L 6 7/8" x W 7 5/8"





PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
230V 21 l/min 5.5 gpm	4 bar 58 psi
400V 21 l/min 5.5 gpm	4 bar 58 psi
	HIGH PRESSURE

CODICE PART NUMBER	VOLT	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
164 521 1C	230	3	2,1A	370W	3A	19 mm	3/4" BSPP	8,1 kg
164 521 1F	400	3	0,8A	370W	1A	19 mm	3/4" BSPP	8,1 kg

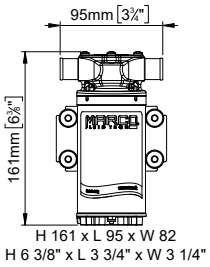
FLEXIBLE IMPELLER 12V and 24V - DC

UP1-J/OIL

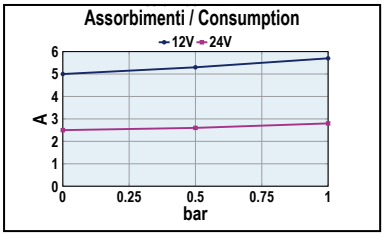
- FKM Impeller
- Low speed
- Special for oil change

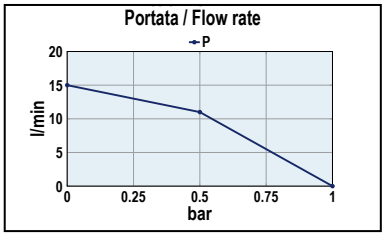


12V
24V



H 161 x L 95 x W 82
H 6 3/8" x L 3 3/4" x W 3 1/4"





PORTATA* FLOW RATE* max.	PRESSIONE PRESSURE max.
15 l/min *4 gpm*	1 bar *14.5 psi*

* OIL SAE 30 AT 25°C

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M162-005-12	12	1	5A	120W	7,5A	20 mm	3/8" BSPP	1,8 kg
M162-005-13	24	1	2,5A	120W	4A	20 mm	3/8" BSPP	1,8 kg

OIL

12/24V ELECTRONIC OIL CHANGE KITS

IT Pompe e sistemi reversibili con controllo elettronico per operazioni di travaso e cambio olio. Il controllo elettronico regola la velocità del motore della pompa in base alla viscosità/temperatura dell'olio e aumenta il numero di giri nella fase di adescamento per maggiore rapidità dell'operazione. Il sistema va in blocco automatico in caso di fine liquido, cortocircuito e dopo 30 minuti di operatività.

DE Pumpen und reversible Systeme mit elektronischer Kontrolle zum Umfüllen und Wechsel von Öl. Automatische Geschwindigkeitsregulierung des Motors je nach Dickflüssigkeit/Temperatur des Öles. Um die Ansaugphase zu verkürzen, wird die Drehzahl erhöht. Das System wird automatisch blockiert bei Fehlen der Flüssigkeit, bei Kurzschluss und nach 30 Minuten Arbeitszeit.

FR Pompes et systèmes réversibles avec contrôle électronique pour vidanger et changer l'huile. Le contrôle électronique règle la vitesse du moteur selon la viscosité/température de l'huile et de plus augmente le numéro de tours-moteur dans la phase d'amorçage pour une rapidité opérative. Le système est bloqué automatiquement en cas de réservoir vide, court-circuit et après 30 min. de fonctionnement.

EN Reversible electronic pumps and systems for oil fill and drain operations. The electronic control adjusts the speed of the motor according to oil viscosity/temperature and increases its speed during priming for faster operations. The system automatically shuts off in case of empty tank, short circuit and after 30 minutes of operation.

ES Bombas y sistemas reversibles con control electrónico para el vaciado/llenado de aceite. El control electrónico adapta la velocidad del motor a la viscosidad/temperatura del aceite. También aumenta la velocidad de la bomba en fase de cebadura para mejorar la velocidad de las operaciones. El sistema se para automáticamente en caso de tanque vacío, cortocircuito y después de 30 minutos de trabajo.

PT Bombas e sistemas reversíveis com controle eletrónico para o rápido esvaziamento e enchimento do óleo. O controle eletrônico regula a velocidade do motor conforme a viscosidade/temperatura do óleo, além disso aumenta o número das voltas na fase de aspiração para uma maior velocidade operativa. O sistema entra em bloqueio automático no caso do líquido acabar ou de curto-circuito, e depois de 30 min. de trabalho.

Spare parts and accessories

Page 79

OCP1/3 

OCP2/3 

OCP1/6 

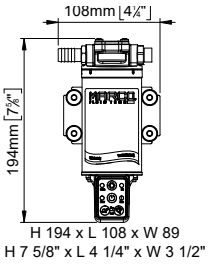
OCP2/6 

OCK8-E

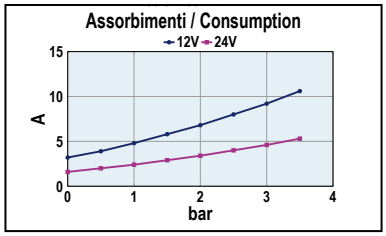
- Integrated Smart Keypad for fine tuning
- Complete kit with battery clips
- Reversible
- Digital Thermal Protection

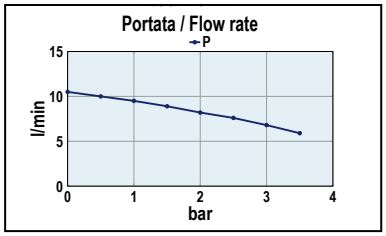






H 194 x L 108 x W 89
H 7 5/8" x L 4 1/4" x W 3 1/2"





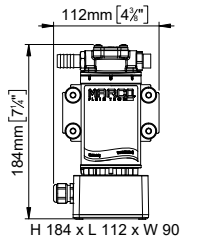
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	3,5 bar 50.8 psi HIGH PRESSURE

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-936-15	12/24	1,5	4A / 2A	150W	15A	13 mm	3/8" BSPP	2,2 kg

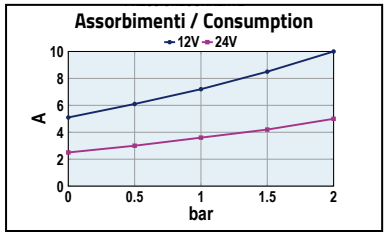
OCK1-E

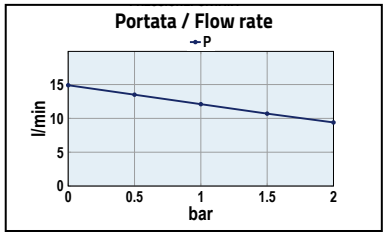
- Reversible
- Complete kit with battery clips





H 184 x L 112 x W 90
H 7 1/4" x L 4 3/8" x W 3 1/2"



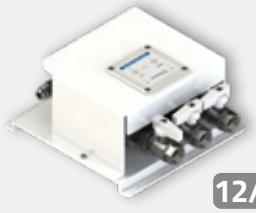


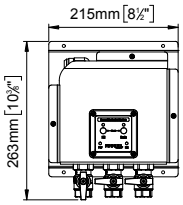
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
15 l/min 4 gpm	2 bar 29 psi

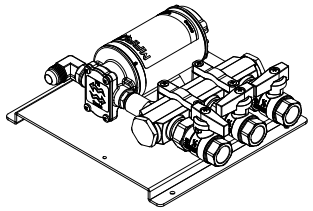
CODICE PART NUMBER	VOLT	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	TUBO HOSE	BOCCHE PORTS	PESO WEIGHT
M164-931-15	12/24	1	6A / 3A	120W	7,5A	13 mm	3/8" BSPP	2,4 kg

OCS3/E

▪ 3 valves ▪ Reversible







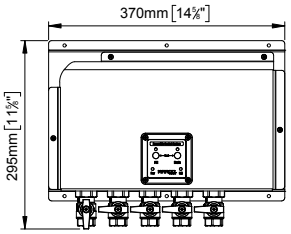
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	2 bar 29 psi

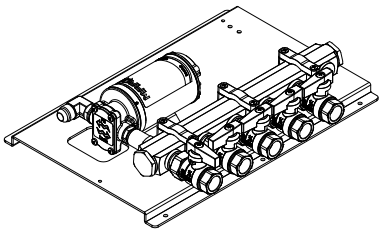
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	BOCCHE PORTS	PESO WEIGHT
M164-924-15	12/24	1,5	4A /2A	120W	10A	1/2" BSPP	4,4 kg

OCS5/E

▪ 5 valves ▪ Reversible







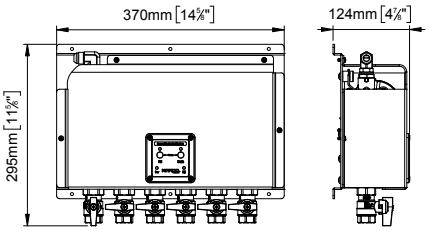
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
10 l/min 2.6 gpm	2 bar 29 psi

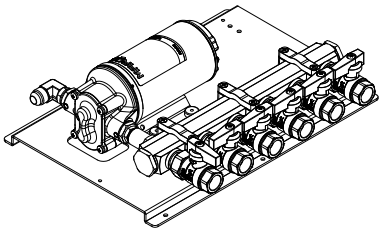
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	BOCCHE PORTS	PESO WEIGHT
M164-925-15	12/24	1,5	4A /2A	120W	10A	1/2" BSPP	6,5 kg

OCS6/E

▪ 6 valves ▪ Reversible







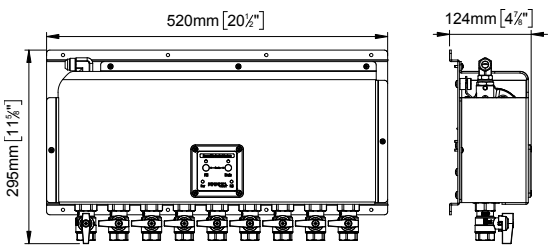
PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
20 l/min 5.3 gpm	2 bar 29 psi

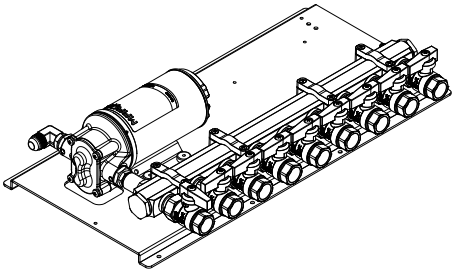
CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	BOCCHE PORTS	PESO WEIGHT
M164-926-15	12/24	1,5	7A / 3,5A	180W	10A	1/2" BSPP	8 kg

OCS9/E

▪ 9 valves ▪ Reversible



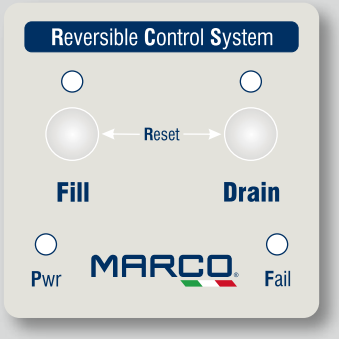




PORTATA FLOW RATE max.	PRESSIONE PRESSURE max.
20 l/min 5.3 gpm	2 bar 29 psi

CODICE PART NUMBER	VOLTS	ADESCAM. SELF-PRIM. m	CONS.	MOTORE MOTOR	FUSIBILE FUSE	BOCCHE PORTS	PESO WEIGHT
M164-928-15	12/24	1,5	7A /3,5A	180W	10A	1/2" BSPP	10 kg
164 928 1H	100-240	1,5	0,3A	180W	1A	1/2" BSPP	10,8 kg





RCS REVERSIBLE CONTROL SYSTEM

TIPO TYPE	CODICE PART NUMBER	VOLT	DIMENSIONI DIMENSIONS mm	FORO HOLE mm	PROTEZIONE PROTECTION	DESCRIZIONE DESCRIPTION
RCS	M165-201-15	12/24	80 x 80 x 46	Ø 70	IP67	for UP3-RK
	M165-202-15	12/24	80 x 80 x 46	Ø 70	IP67	for UP6-RK

IT Il pannello di controllo RCS, integrato nelle pompe e nei sistemi di travaso e cambio olio, permette di monitorare il funzionamento della pompa ed interagire con essa. Caratteristiche:

- Reversibilità della direzione del flusso che permette due modalità operative: DRAIN per l'aspirazione e FILL per il riempimento.
- Regolazione automatica della velocità del motore in base alla viscosità e alla temperatura del liquido.
- Arresto e riavvio della pompa con la semplice pressione di un tasto.
- Reset istantaneo tramite la pressione simultanea dei due tasti operativi (DRAIN e FILL).
- Arresto automatico dopo 30 secondi in caso di olio troppo viscoso o rubinetto chiuso.
- Arresto automatico dopo 90 secondi dal termine del travaso, quando la pompa è vuota.
- Arresto automatico dopo 30 minuti di funzionamento senza interruzioni (opzione disattivabile direttamente dal pannello).
- Segnalazioni operative tramite LED luminosi.
- Possibilità di impostazione "High Speed" per travaso diesel.

DE Das RCS-Kontrollpaneel, das in den Pumpen und in den Umfüll- und Ölwechselsystemen integriert ist, ermöglicht die Kontrolle der Pumpentätigkeit, sowie eine Interaktion. Eigenschaften:

- Flüssigkeit kann in zwei Richtungen fließen: DRAIN-Modus beim Absaugen und FILL-Modus beim Einfüllen
- automatische Geschwindigkeitsregelung des Motors je nach Zähflüssigkeitsgrad und Temperatur
- Stoppen und Starten der Pumpe wird mit einem Knopfdruck betätigt
- unmittelbares Resettieren erfolgt mit simultanem Drücken der beiden Tasten DRAIN und FILL
- bei allzu zähflüssigem Öl oder bei geschlossenem Hahn erfolgt ein automatischer Stop nach 30 Sekunden
- automatischer Stop nach 90 Sekunden, wenn nach dem Umfüllen die Pumpe leer ist
- automatischer Stop nach 30 Minuten ununterbrochener Arbeit (kann man, wenn unerwünscht, direkt am Paneel ausschalten)
- LED-Anzeige bei leerem Behälter
- "High speed" Einstellungsmöglichkeit für Dieselumfüllung

FR Le panneau de contrôle RCS, intégré dans les pompes à huile et les systèmes de changement d'huile vous permet de surveiller à distance le fonctionnement de la pompe et d'interagir avec elle. Caractéristiques:

- Réversibilité du sens d'écoulement, ce qui permet deux modes de fonctionnement : DRAIN pour l'aspiration et FILL pour le remplissage.
- Régulation automatique de la vitesse du moteur en fonction de la viscosité et de la température du liquide.
- Arrêt et démarrage de la pompe avec une simple pression sur un bouton.
- Réinitialisation immédiate en appuyant sur les boutons DRAIN et FILL à la fois.
- Arrêt automatique au bout de 30 secondes en présence d'huile avec une viscosité excessive ou robinet fermé.
- Arrêt automatique au bout de 90 secondes de la fin de l'opération lorsque la pompe est vide.
- Arrêt automatique au bout de 30 minutes de fonctionnement continu (cette option peut être désactivée directement depuis le panneau).
- Les opérations sont signalées par des LEDs lumineuses.
- Possibilité de réglage "High Speed" pour le transvasement de diesel.

EN The RCS control panel integrated in the oil pumps and oil change systems allows you to remotely monitor the operation of the pump and interact with it. Features:

- The reversibility of flow direction allows for two operative modes: DRAIN for aspiration and FILL for filling.
- Automatic regulation of the motor speed according to viscosity and temperature of the liquid.
- Stop and Start of the pump with a simple push of a button.
- Immediate reset by pressing the DRAIN and FILL buttons at the same time.
- Automatic stop after 30 seconds in presence of oil with excessive viscosity or closed tap.
- Automatic stop after 90 seconds from the end of the operation when the pump is empty.
- Automatic stop after 30 minutes of continuous operation (this option can be deactivated directly from the panel).
- Operations are signaled by luminous LEDs.
- Possibility of "High Speed" setting for diesel transfer.

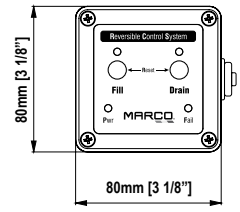
ES El panel de control RCS integrado en las bombas de aceite y en los sistemas de cambio de aceite permite controlar a distancia el funcionamiento de la bomba e interactuar con ella. Características:

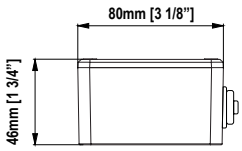
- Reversibilidad de la dirección del flujo a través de dos modos operativos: DRAIN para aspiración y FILL para llenado.
- Regulación automática de la velocidad del motor de acuerdo con la viscosidad y la temperatura del líquido.
- Apagamiento e reinicio de la bomba con una simple pulsación de un botón.
- Reajuste inmediato pulsando los botones DRAIN y FILL al mismo tiempo.
- Parada automática después de 30 segundos en presencia de aceite con una viscosidad excesiva o grifo cerrado.
- Parada automática después de 90 segundos desde el final de la operación cuando la bomba está vacía.
- Parada automática después de 30 minutos de funcionamiento continuo (esta opción se puede desactivar directamente desde el panel).
- Las operaciones se indican mediante LEDs luminosos.
- Posibilidad de ajuste al modo "High Speed" para transvase de diésel.

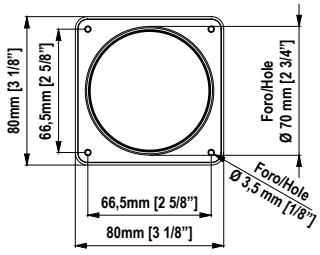
PT O painel de controle RCS integrado nas bombas de óleo e nos sistemas de mudança de óleo permite monitorar remotamente o funcionamento da bomba e interagir com a mesma. Características:

- Dois modos operativos: DRAIN para aspiração e FILL para enchimento, com possibilidade de inversão do sentido de fluxo.
- Regulação automática da velocidade do motor conforme a viscosidade e a temperatura do líquido.
- Paragem e arranque da bomba com uma simples pressão dum botão.
- Redefinição inmediata pressionando os botões DRAIN e FILL ao mesmo tempo.
- Paragem automática depois de 30 segundos em presença de óleo com viscosidade excessiva ou torneira fechada.
- Paragem automática depois de 90 segundos a partir do final da operação, quando a bomba está vazia.
- Paragem automática depois de 30 minutos de operação contínua (esta opção pode ser desativada diretamente no painel).
- As operações são sinalizadas por LEDs luminosos.
- Possibilidade de definir o modo "High Speed" para trasfega de diesel.

DIMENSIONI DIMENSIONS



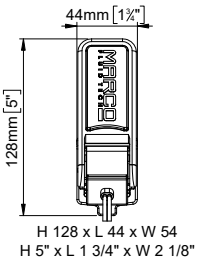




AS3



▪ Heavy duty



H 128 x L 44 x W 54
H 5" x L 1 3/4" x W 2 1/8"

IT Interruttore automatico per pompe sentina . Ideale per servizi gravosi.

DE Automatischer Schalter für Lenzumpen - Heavy Duty.

FR Interrupteur automatique pour pompes vide de cale – Services lourds.

EN Automatic float switch for bilge pumps - Heavy Duty.

ES Interruptor automático para bombas de achique – Servicios pesados.

PT Interruptor automático para bombas de porão – Serviços pesados.

CODICE PART NUMBER	AMP. max.	OFF/ON	CAVO WIRE	DIMENSIONI DIMENSIONS mm
M161-003-10	20 (12V) - 10 (24V)	19/51 mm	900 mm	127 x 42 x 110

IMP1



CODICE PART NUMBER	MATERIALE MATERIAL	RICAMBIO ORIGINALE PER ORIGINAL SPARE PART FOR	DIMENSIONI DIMENSIONS mm	FORO BORE mm
M163-000-00	Gomma nitrilica Nitrile rubber	UP1 - UP1/N - UP1/M - UP1/AC	Ø 51,5 x 22	8

IMP2



CODICE PART NUMBER	MATERIALE MATERIAL	RICAMBIO ORIGINALE PER ORIGINAL SPARE PART FOR	DIMENSIONI DIMENSIONS mm	FORO BORE mm
M163-001-00	Gomma nitrilica Nitrile rubber	UP1/J	Ø 40,5 x 22	8

IMP2/V



CODICE PART NUMBER	MATERIALE MATERIAL	RICAMBIO ORIGINALE PER ORIGINAL SPARE PART FOR	DIMENSIONI DIMENSIONS mm	FORO BORE mm
M163-002-00	FKM	UP1/J	Ø 40,5 x 22	8

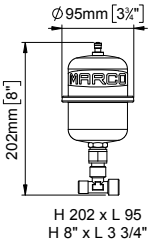
RJ11



CODICE PART NUMBER	DESCRIZIONE DESCRIPTION	LUNGHEZZA CAVO CABLE LENGTH m
M165-410-00	Cavo nero con accoppiatore per SCS / PCS Black cable with coupler for SCS / PCS	10
M165-411-00	Cavo nero con accoppiatore per SCS / PCS Black cable with coupler for SCS / PCS	3

ATX1





H 202 x L 95
H 8" x L 3 3/4"

0,5liters

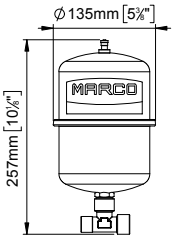
IT Vasi ad espansione in acciaio inox per pompe automatiche. Attacco in acciaio inox. Membrana in gomma per liquidi alimentari.

DE Ausdehnungsgefäße aus Edelstahl für automatische Pumpen. Verbindungsstück aus Edelstahl. Membran aus Gummi zur Benutzung von flüssigen Lebensmitteln.

FR Vases d'expansion en acier inoxydable pour pompes automatiques. Connexion en acier inoxydable. Membrane en caoutchouc pour liquides alimentaires.

ATX2





H 257 x L 135
H 10 1/8" x L 5 3/8"

2 liters

EN Stainless steel accumulator tanks for automatic pumps. Stainless steel port. Rubber membrane suitable for foodstuffs.

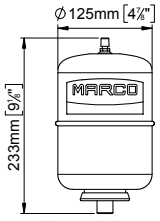
ES Acumuladores de presión en acero inox para bombas automáticas. Conexión en acero inox. Membrana en goma para líquidos alimenticios.

PT Acumuladores de pressão em aço inox para bombas automáticas. Ligação em aço inox. Membrana em borracha para líquidos alimentares.

TIPO TYPE	CODICE PART NUMBER	FINITURA FINISHING	CAPACITÀ CAPACITY litri / liters	PRESSIONE PRESSURE std	PRESSIONE PRESSURE max	DIMENSIONI DIMENSIONS	BOCCA CONNECT
ATX1	M165-080-10	acciaio inox stainless steel	0,5	1 bar 14.5 psi	10 bar 145 psi	Ø95x202	3/8" BPS
ATX1	M165-080-11	acciaio inox stainless steel	0,5	1 bar 14.5 psi	10 bar 145 psi	Ø95x202	1/2" BPS
ATX2	M165-081-10	acciaio inox stainless steel	2	1 bar 14.5 psi	10 bar 145 psi	Ø135x257	1/2" BPS

AT1





H 233 x L 125 mm
H 9 1/8" x L 4 7/8"

2 liters

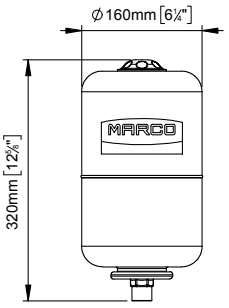
IT Vasi ad espansione per pompe automatiche, verniciati bianchi. Attacco in acciaio inox. Membrana in gomma per liquidi alimentari.

DE Ausdehnungsgefäße für automatische Pumpen, weiß-lackiert. Verbindungsstück aus Edelstahl. Membran aus Gummi zur Benutzung von flüssigen Lebensmitteln.

FR Vases d'expansion pour pompes automatiques, vernissés blancs. Connexion en acier inoxydable. Membrane en caoutchouc pour liquides alimentaires.

AT2





H 320 x L 160 mm
H 12 5/8" x L 6 1/4"

5 liters

EN Accumulator tanks for automatic pumps, white-painted. Stainless steel port. Rubber membrane suitable for foodstuffs.

ES Acumuladores de presión para bombas automáticas, barnizados blancos. Conexión en acero inox. Membrana en goma para líquidos alimenticios.

PT Acumuladores de pressão para bombas automáticas, pintados em branco. Ligação em aço inox. Membrana em borracha para líquidos alimentares.

TIPO TYPE	CODICE PART NUMBER	FINITURA FINISHING	CAPACITÀ CAPACITY litri / liters	PRESSIONE PRESSURE std	PRESSIONE PRESSURE max	DIMENSIONI DIMENSIONS	BOCCA CONNECT
AT1	M165-082-10	verniciato bianco white painted	2	1,3 bar 18.9 psi	10 bar 145 psi	Ø125x233	1/2" BPS
AT2	M165-083-10	verniciato bianco white painted	5	1,3 bar 18.9 psi	8 bar 116 psi	Ø160x320	3/4" BPS

DHK1



▪ Heavy duty

IT Kit tubo per pompa lavaggio ponte estensibile fino a 15 m, pistola e connessione da 3/4". Raccordi e connessione in ottone nichelato compatibile con DQC.

DE Ausziehbarer Schlauch für Deckwaschpumpe, erweiterbar bis 15m, Spritzpistole, 3/4" Anschluss. Rohrverbindungsstück und Schnellverbindung aus vernickeltem Messing, kompatibel mit DQC.

FR Kit de tuyau pour pompe á laver, tuyau rétractable de 15 m, pistolet, raccord 3/4". Raccords et connexion rapide en laiton nickelé compatible avec DQC.

EN Deck hose kit with 15m/50ft retractible hose, spray gun, 3/4" connection. Nickel plated brass fittings and quick connection suitable for DQC.

ES Kit de tubo para bomba de cubierta, con tubo retráctil de 15 m, pistola, conexión de 3/4". Racores y conexión rápida en latón niquelado compatible con DQC.

PT Kit de tubo para bomba de lavagem com tubo retrátil de 15 m, pistola, conexão de 3/4". Ligações e conexão rápida em latao niquelado compatível com DQC.

TIPO TYPE	CODICE PART NUMBER	DESCRIZIONE DESCRIPTION	RACCORDI FITTINGS
DHK1	M165-101-00	Tubo estensibile fino a 15 m, pistola e connessione rapida 15 m/50 ft retractable hose, spray gun, quick connection	3/4" BSPP

DQC



▪ Heavy duty

IT Connessione rapida a scatto per pompe di lavaggio DP. Estremamente semplice da installare. Compatibile con tubo DHK1.

DE Schnellverbindung mit Klick für Deckwaschpumpe. Äußerst einfach zu montieren. Kompatibel mit Schlauch DHK1.

FR Connexion rapide à déclenchement pour pompes de lavage DP. Très facile à installer. Compatible avec tuyau DHK1.

EN Quick-click connection for DP washing pumps. Very easy to install. Suitable for DHK1 hose.

ES Conexión rápida a presión para bombas de lavado DP. Muy fácil de instalar. Compatible con tubo DHK1.

PT Ligação rápida de encaixe para bombas de lavagem. Muito fácil de instalar. Compatível com tubo DHK1.

TIPO TYPE	CODICE PART NUMBER	DIMENSIONI DIMENSIONS mm	CONNESSIONI CONNECTION	FORO HOLE
DQC	M165-100-00	90x84x55	int. Ø 12.5 ÷ 15,5	Ø78

ACCESSORIES

IS14 IS16



IT Filtro in linea in Tritan trasparente con parte filtrante in acciaio inox AISI 304. Chiusura a scatto per una facile ispezione e pulizia.

DE Angeschlossener Filter aus durchsichtigem Tritan mit Filternetz aus Edelstahl AISI 304. Druckverschluss für eine einfache Reinigung.

FR Filtre en ligne de Tritan transparent avec grille filtrante en acier inoxydable AISI 304. Déclenchement rapide pour faciliter l'inspection et le nettoyage.

EN In-line filter made of transparent Tritan with AISI 304 stainless steel net. Snap-on locking for easy inspection and cleaning.

ES Filtro en línea de Tritan transparente con rejilla de acero inoxidable AISI 304. Gran facilidad de desmontaje para su limpieza.

PT Filtro em linha de Tritan transparente com rede de aço inoxidável AISI 304. Grande facilidade de desmontagem para a limpeza.

TIPO TYPE	CODICE PART NUMBER	RACCORDI CONNECTIONS	TUBO HOSE	MATERIALE MATERIAL	O-RING	GRIGLIA NET
IS14	M165-000-10	3/8" BSP	ø14 mm interno ø14 mm inner tubing	PA6	NBR	0,5x0,5
IS14	M165-002-10	3/8" BSP	ø14 mm interno ø14 mm inner tubing	PA6	FKM	0,5x0,5
IS14	M165-003-10	3/8" BSP	ø14 mm interno ø14 mm inner tubing	PA6	SILICONE	0,5x0,5
IS16	M165-001-10	1/2" BSP	ø16 mm interno ø16 mm inner tubing	PA6	NBR	0,5x0,5
IS20	M165-004-10	3/4" BSP	ø20 mm interno ø20 mm inner tubing	PA6	NBR	0,5x0,5

OK1



Part No. 165 020 00

IT Kit tubi Ø 8 mm e 6 mm esterno per pompe travaso olio.

DE Schlauchkit Ø 8 mm und 6 mm für Ölpumpen.

FR Kit de tuyaux Ø 8 mm et 6 mm ext. pour transvasement d'huiles.

EN Tube kit of 8 mm and 6 mm ext. Ø for oil pumps.

ES Kit tubos Ø 8 mm y 6 mm ext. para bombas de transvase aceites.

PT Kit de tubos Ø 8 mm y 6 mm ext. para bombas de trasfega óleos.

OCP1/3

3/8" valve



OCP2/3

Two 3/8" valves



OCP1/6

1/2" valve



OCP2/6

Two 1/2" valves



TIPO TYPE	CODICE PART NUMBER	DESCRIZIONE DESCRIPTION	BOCCHE PORTS
OCP1/3	M165-030-00	1 valve tap for UP3-RK	3/8" BSPP
OCP2/3	M165-031-00	2 valves tap for UP3-RK	3/8" BSPP
OCP1/6	M165-032-00	1 valve tap for UP6-RK	1/2" BSPP
OCP2/6	M165-033-00	2 valves tap for UP6-RK	1/2" BSPP

KB



IT Kit cavi e pinze per batteria.

DE Kabelkit mit Batterieklemmen.

FR Kit de câbles et pinces de batterie.

EN Kit of cables and battery clips.

ES Kit de cables y clips de batería.

PT Kit de cabos e pinças de alimentação.

TIPO TYPE	CODICE PART NUMBER	AMP. max.	CONNETTORE CONNECTOR	LUNGHEZZA CAVO CABLE LENGTH mm
KB	M165-400-00	15	Faston 6.3 x 0.8	3000

BF20 BF25





IT Filtro di fondo e portagomma per tubo ø20 o ø25 mm.

DE Fußfilter und Schlaucholive für ø20 mm oder ø25 mm Schlauch.

FR Filtre de fond et connexions pour tuyau de ø20 ou ø25 mm.

EN Bottom filter and hosefittings for tubing ø20 mm or ø 25 mm.

ES Filtro de fondo y conexiones para tubo ø20 o ø25 mm.

PT Filtro de fundo e ligações para tubo de ø20 ou ø25 mm.

TIPO TYPE	CODICE PART NUMBER	TUBO HOSE Ø mm	O-RING	RETE MESH mm	MATERIALE MATERIAL
BF20	M165-005-10	20	3087 NBR	0,6	PA6 & PPL
BF25	M165-006-10	25	3087 NBR	0,6	PA6 & PPL

FM2

▪ High resistance polycarbonate light cover



Features

- Operating temperature: -30°C +50°C
- 360° horizontal movement
- 260° vertical movement
- Automatic position resetting
- Beam depth: 350 m

CODICE PART NUMBER	VOLT	LAMPADA BULB	AMP.	PROTEZIONE PROTECTION	Cd (p)	DIMENSIONI DIMENSIONS mm
M170-020-12	12	H1 100W	7,5	IP55	130.000	Ø135xh250
M170-020-13	24	H1 100W	3,8	IP55	130.000	Ø135xh250

FM3

▪ High resistance polycarbonate light cover



Features

- Operating temperature: -30°C +50°C
- 360° horizontal movement
- 260° vertical movement
- Automatic position resetting
- Beam depth: 350 m

CODICE PART NUMBER	VOLT	LAMPADA BULB	AMP.	PROTEZIONE PROTECTION	Cd (p)	DIMENSIONI DIMENSIONS mm
M170-040-12	12	H1 100W	7,5	IP55	130.000	Ø165xh194
M170-040-13	24	H1 100W	3,8	IP55	130.000	Ø165xh194

SOLENOID VALVES

EV-M312

▪ Fuel cut-off solenoid valves



Features

- RINA Regulation compliant
- For inboard engines
- Safety knob for manual opening

CODICE PART NUMBER	VOLT	AMP.	PASSAGGIO HOLE Ø mm	BOCCHE PORTS	RACCORDI CONNECTIONS Ø mm	BAR max.	PORTATA FLOW RATE max.
M140-040-12	12	1	12	1/2"	12	3	69 l/min
M140-040-13	24	0,55	12	1/2"	12	3	69 l/min

EV-MA

▪ Fresh water solenoid valves



Features

- Main applications:
  - Wiper systems
  - Anchor chain washing
  - Water distribution on board

CODICE PART NUMBER	VOLT	AMP.	PASSAGGIO HOLE Ø mm	BOCCHE PORTS	BAR max.	PORTATA FLOW RATE max.
M140-200-12	12	1	4,5	1/4"	5	21 l/min
M140-200-13	24	0,55	4,5	1/4"	5	21 l/min

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