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METAL RECOVERY
SYSTEMS





DESCRIPTION

Precious metals recovery systems series REM are made for exhausted solution from various production processes from chemicals, plating, printed boards, general metal finish and jewellery sectors.

Thanks to the recovered material and the low management costs, it becomes a source of income.

ADVANTAGES

- Quick payback time
- Recovery of up to 99% of precious metal, which is easy resellable
- Easy to use
- Low maintenance
- Outside the tank

FEATURES

- Small dimensions
- PPS flameproof made, which guarantees high chemical and alkaline resistance
- Extractor hood
- Titanium screws
- Mixed oxides anodes
- Titanium connections for anodes and cathodes

OPERATION

REM operating principle consist of metal recovery by electrolytic method i.e. when the solution with precious metal ions works under electric current it generates movement of the positive ions towards the cathode where the precious metal will be deposited.



REM IDENTIFICATION CODE

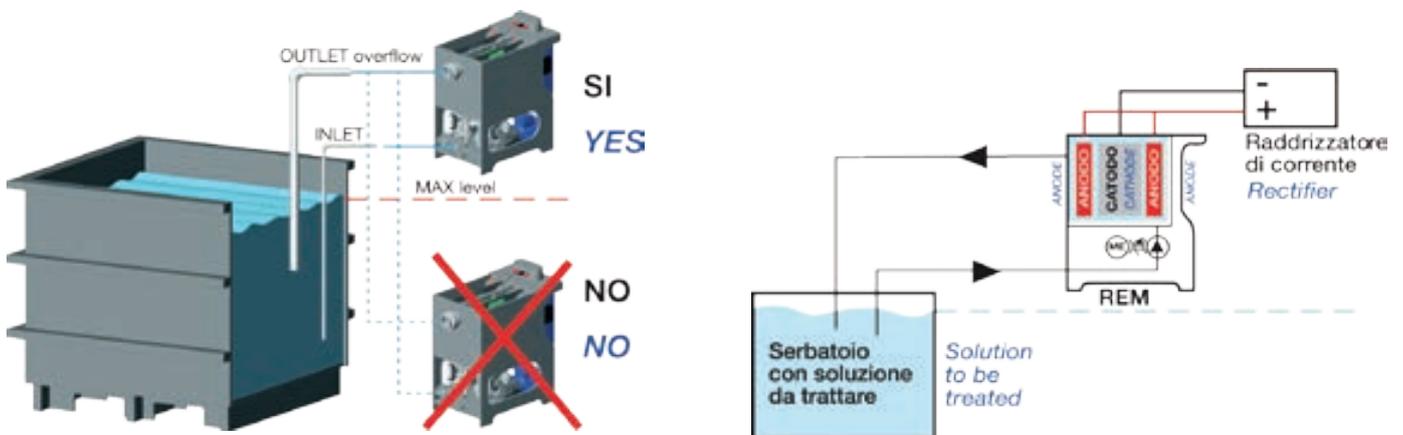
System	Application	Model	Rectifier	Cartridges (N°/l")	Pump	Anode Material	Cathode Material	Special Amperage and Voltage
RM=REM	E=Outside	5E=Rem 5E 5B=Rem 5B 20=Rem 20 50=Rem 50 90=Rem 90	R1=1 WW=no Rectifier	00 11=1x10 21=2x10 32=3x20	M42=MPC042 E07=EVT7 E12=EVT12	/=Titanium C=Graphite	/=Copper N=Nickel	A=Special Amperage/Voltage 200A 12V
RM	E	5B	R1	11	M42	/	/	/

Example of codification

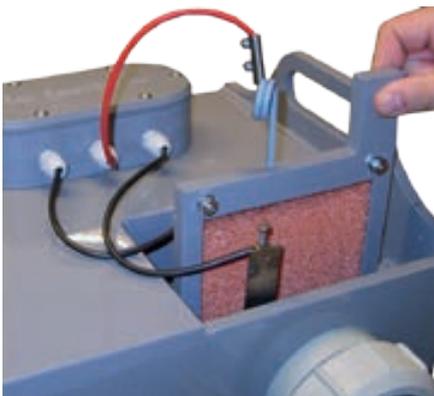
TECHNICAL DATA

MODEL	Cell. Vol.	Mixed Oxides	Catode dimensions	Pump	QMAX (m ³ /h)	H MAX (m)	Kw	In/Out	Dimensions L-P-H	Rectifiers
RM 5E	9 lt.	2/1	140x490 mm	MPC042	1,8	5	0,12	25/63	320x380x620	12V 30A
RM 20	28 lt.	3/2	270x250 mm	MPC042	1,8	5	0,12	25/63	400x430x950	12V 30A
RM 50	54 lt.	5/4	150x460 mm	MPC042/MPP051	1,8/3	5/7	0,12	25/63	560x410x670	12V 50A
RM 90	100 lt.	4/4	400x490 mm	MPC042/MPP051	1,8/3	5/7	0,12	32/63	850x620x1150	12V 200A

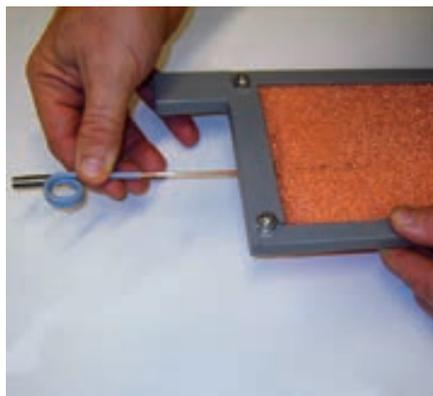
INSTALLATION AND TECHNICAL SCHEME



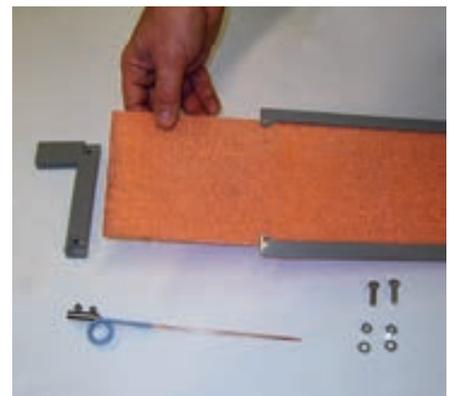
CATHODE REPLACEMENT



1. Remove the cathode housing from the electrolytic cell



2. Remove the contact from the cathode



3. Fit a new 'sponge' into the frame, reconnect contact and replace cathode housing back into the electrolytic cell

Product Range: PUMP: Magnetic Drive, Horizontal, Mechanical Seal, Vertical, Diaphragm, Drum, - FILTERING SYSTEMS – PRECIOUS METAL RECOVERY SYSTEMS – DEPURATION – FILTERS: String Wound Cartridges, Melt Blown, Filtering Disks, Bag Filters, Plated Filter Cartridges, Absolute – ACCESSORIES: Gratings, Venturi Eductor – CUSTOMIZED COMPONENTS.

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REM SMALL

Metal Recovery

DESCRIPTION

Precious metals recovery systems series REM Small are made for exhausted solution from various production processes from chemicals, plating, printed boards, general metal finish and jewellery sectors.

Thanks to the recovered material and the low management costs, it becomes a source of income.

ADVANTAGES

- Quick payback time
- Recovery of up to 99% of precious metal, which is easy resellable
- Easy to use
- Low maintenance

FEATURES

- Small dimensions
- PPS flameproof made, which guarantees high chemical and alkaline resistance
- Extractor hood
- Titanium screws
- Mixed oxides anodes
- Titanium connections for anodes and cathodes

TYPES OF FILTRATION

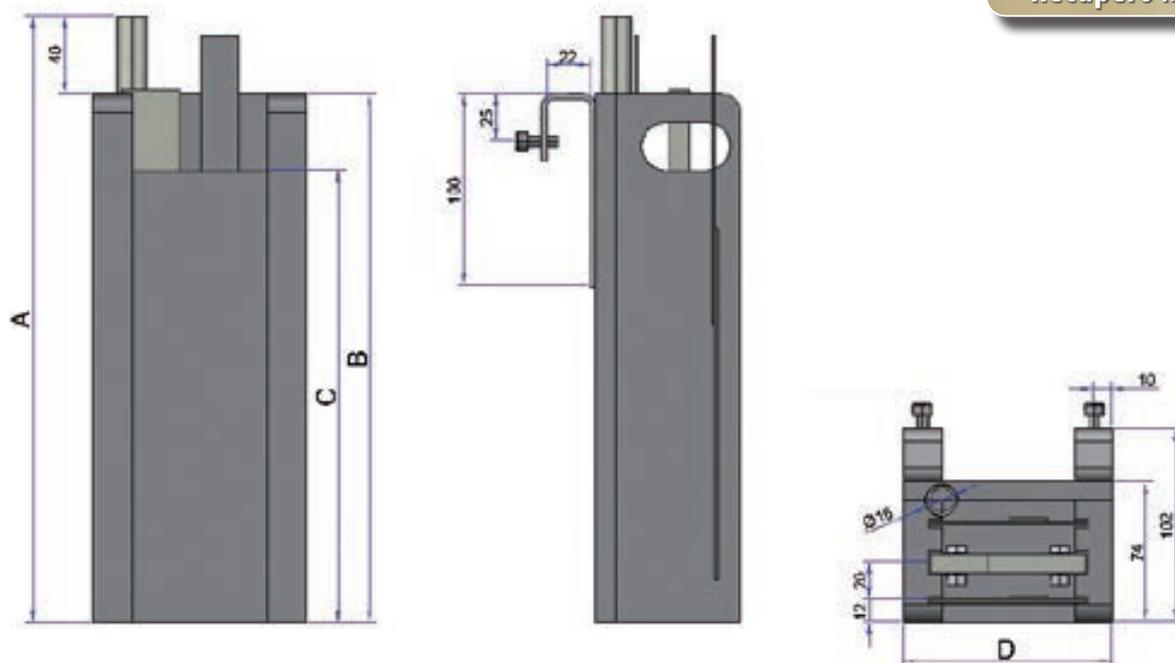


REM SMALL IDENTIFICATION CODE

System	Application	Model	Rectifier	Cartridges (N°/l")	Pump	Anode Material	Cathode Material	Special Amperage and Voltage
RM=REM	S=Small	10=RemSmall 1 20=RemSmall 2 5A=RemSmall 5A 5B=RemSmall 5B	R1=1 WW=no Rectifier	00 11=1x10 21=2x10 32=3x20	M42=MPC042 E07=EVT7 E12=EVT12	/=Titanium C=Graphite	/=Copper N=Nickel	A=special Amperage/ Voltage 200A 12V
RM	S	2	R1	11	M42	/	/	/

Example of codification

DIMENSIONS



MODEL	Pump QMAX (m ³ /h)	H MAX	Overall dimensions (mm)			
			A	B	C	D
SIZE 1	1,5	5	315	275	205	110
SIZE 2	1,5	5	590	550	455	110
SIZE 5 A	1,5	5	315	275	205	180
SIZE 5 B	1,5	5	590	550	455	180

TECHNICAL TABLE

MODEL	Cell.Vol.	Mixed Oxides	Catode dimensions	Pump	Filter Unit	Pump QMAX (m ³ /h)	H MAX (m)	Kw	Rectifiers
RMS10	0,8 lt.	2/1	80x185 mm	MPC039	MINI10/N 042PP	1,5	5	0,12	12V 30A
RMS20	1,5 lt.	2/1	80x435 mm	MPC039	MINI10/N 042PP	1,5	5	0,12	12V 30A
RMS5A	1,3 lt.	2/1	150x220 mm	MPC039	MINI10/N 042PP	1,5	5	0,12	12V 30A
RMS5B	3,3 lt.	2/1	150x460 mm	MPC039	MINI10/N 042PP	1,5	5	0,12	12V 50A

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DESCRIPTION

REM series precious metal recovery systems are recommended in different production sectors, including:

Chemical - Galvanizing - Photography - Printed circuit boards - Metallic surface treatments.

Recovery of precious metals from spent solutions, left over after various production processes, constitutes a significant source of revenue with low operating costs.

ADVANTAGES

- Quick payback time
- Recovery of up to 99% of the precious metal
- Easy to use
- Minimal maintenance

CARATTERISTICHE

- Made in PP, which guarantees high mechanical and chemical resistance to both acid and alkaline solutions
- Compact size
- Titanium screws
- Mixed oxide anodes
- Titanium connections for anodes and cathodes

TYPES OF CARTRIDGES

MODEL	Dim. Inches	Recoverable Metal (max.)
Nickel/Copper Cartridge	10"	3 kg
	20"	6 kg



REM STAND ALONE IDENTIFICATION CODE

System	Application	Model	Rectifier	Cartridges (N°/I")	Pump	Anode Material	Cathode Material	Special Amperage and Voltage
RM=REM	L=Stand Alone	10=RemSA 10 20=RemSA 20	R1=1 WW=no Rectifier	00 11=1x10 21=2x10 32=3x20	M42=MPC042 E07=EVT7 E12=EVT12	/=Titanium C=Graphite	/=Copper N=Nickel	A=special Amperage/ Voltage 200A 12V
RM	L	10	R1	11	M42	/	/	/

Example of codification

DIMENSIONS

RML-WW-00



RML-WW-11



RML-R1-11



MODEL	A	B	C	Ø-IN	Ø-OUT	Ø-DRAIN
RML-10-WW-00	460 mm	270 mm	790 mm	25 mm	25 mm	20 mm
RML-10-WW-11	450 mm	340 mm	895 mm	32 mm	25 mm	20 mm
RML-10-R1-11	450 mm	400 mm	895 mm	32 mm	25 mm	20 mm
RML-20-R1-21	705 mm	400 mm	895 mm	32 mm	25 mm	20 mm

TECHNICAL DATA

MODEL	Vol. Cell.	Mixed Oxides	Cathode Dimensions	Pump	QMAX (m ³ /h)	H MAX (m)	kW	In/Out	Straightener	Filtering Cartridge
RML-10-R1-11	6 lt.	1	Ø 130 H220	EVT7PP	6,8	12	0,25	32/25	12V 30A	10"
RML-20-R1-21	12 lt.	1	Ø 130 H440	EVT7PP	6,8	12	0,25	32/25	12V 30A	20"
RML-10-WW-11	6 lt.	1	Ø 130 H220	EVT7PP	6,8	12	0,25	32/25	12V 30A	10"
RML-10-WW-00	3 lt.	1	Ø 130 H220	MPP051PP	3,6	0,9	0,12	25/25	12V 30A	-

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MFR

Metal Filtering Recovery

DESCRIPTION

Precious metals filtering recovery systems series MFR are used to recover metal particles in water. It's composed by a settlement tank and two or three filter housings connected in series, which could achieve 0,2 absolute micron filtration degree.

OPERATION

MFR is a centralized unit usually located at the end of the production line, where all the waste water of the production processes will convey.

The liquid flows into a settlement tank where it's firstly filtered by gravity and then automatically pumped under pressure in two or three filter housings, equipped with various filter media (bags, cartridges, discs), with a maximum of 0,2 µm filtration degree.

Activating the Bypass valve, it is possible to optimize the recovery thanks to the recirculation of the liquid. This system is available also in automatic version.

ADVANTAGES

- Recovery up to 99% of the metal in solution.
- Quick payback time.
- Easy to use.
- Minimum maintenance.

FEATURES

- PP made, which guarantees high mechanical and chemical resistance to both acid and alkaline solutions.
- Liquid level sensor for automatic operation.
- Gauges to display filter clogging.
- Automatic recirculation system (optional).

APPLICATIONS

- Goldsmith and jewellery industry.
- Centralized treatment for hand washing water.
- Centralized treatment for tumbling and ultrasonic exhausted liquid.
- Centralized treatment for waste water.

Standard version



Automatic version



IDENTIFICATION CODE					
MODEL	Filtering system 1	Filtering system 2	Filtering system 3	Pump (PP)	OPTIONAL
M=MFR	03C1 07C1 07C2 12C2 24C2	1040	O=0000	MCB B02 B03 B09 B07 B10 B12	G=gauge D=digital gauge A=automatic recirculation
		1840	A=1040		
		1880	B=1840		
		1883	C=1880		
		03C1	D=1883		
		03C2	E=03C1		
		07C1	F=03C2		
		07C2	G=07C1		
		07D1	H=07C2		
		07D2	I=07D1		
		12C2	J=07D2		
		24C2	K=12C2		
		24D2	L=24C2		
		36D2			
M	7C1	1840	E	B03	G

Coding example

FILTER MEDIA

FILTER BAGS

1840/1880



25/50 µm

1040/1840/1880



0,5/1 absolute µm

CARTRIDGES

Wired



1/5/10/20/50 µm

Pleated



50/25 µm

Pleated



0,2 absolute µm

DISCS

Paper filter



D200/350/460

Carbon filter



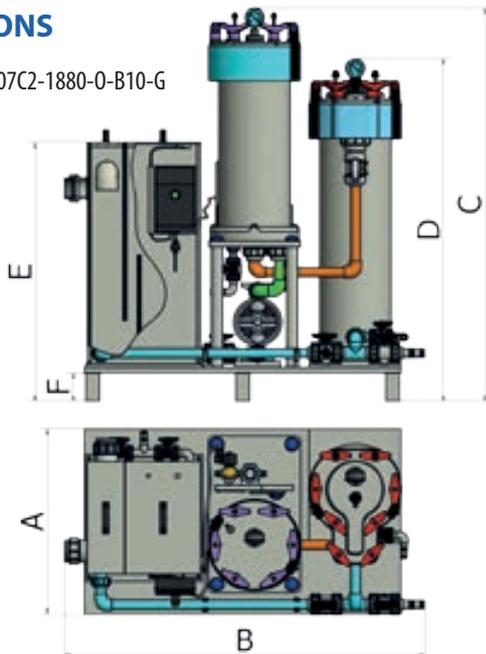
D200/350/460

FILTERING SYSTEMS

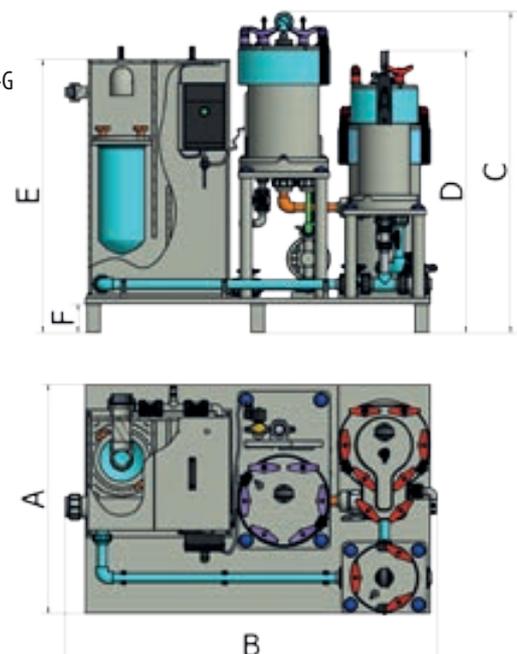
1040	1840	1880	1883	03C1	03C2	07C1	07C2	07D1	07D2	12C2	24C2	24D2	36D2
Bag 100x400 Qt.1	Bag 180x400 Qt.1	Bag 180x800 Qt.1	Bag 180x800 Qt.3	Cartridge 10" Qt.3	Cartridge 10" Qt.3	Cartridge 10" Qt.7	Cartridge 20" Qt.7	Disc D200 mm Qt.35	Disc D200 mm Qt.66	Cartridge 20" Qt.12	Cartridge 20" Qt.24	Disc D350 mm Qt.52	Disc D460 mm Qt.46

DIMENSIONS

*M-07C2-1880-0-B10-G



*M-07C1-1840-E-B03-G



OVERALL DIMENSIONS (mm)

MODEL	A	B	C	D	E	F	IN Ø	OUT Ø
M-03C1-1040-MCB/B02	650	1250	1125	870	900	100	32	32
M-07C1-1840-B05/B03	650	1250	1125	870	900	100	32	32
M-07C1-1840-E-B05B/B03	800	1293	1121	986	955	100	32	32
M-07C2-1880-B09/B10	650	1281	1380	1200	900	100	32	32
M-12C2-24D2-B09/B10	1000	1750	1380	1380	930	57	40	40
M-24C2-36D2-B10/B12	1000	1750	1380	1380	930	57	40	40

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UNDER SINK

Precious Metal Recovery

DESCRIPTION

Standard version:

Undersink is a precious metal recovery filtration system composed by a settlement tank and multi-stages filtration units connected in series that can reach 0,2 absolute micron.

COMBO version:

it's available a COMBO version Sink+Undersink with single or multiple faucet stations, where for easy maintenance Undersink is assembled on a sliding base.

OPERATION

It's generally located under sinks. Solution flows into a settlement tank, where metal is first recovered through gravity filtration and then pumped automatically under pressure in a single or multi-stages filter housing equipped with apposite media (bag, cartridges, discs), which can reach the maximum filtration of 0,2 μm .

To select proper filter media, contact our sales office.

ADVANTAGES

- Recovery up to 99% of the metal in solution
- Quick payback time
- Easy to use
- Minimal maintenance

FEATURES

- Made in PP, which guarantees high mechanical and chemical resistance to both acid and alkaline solutions
- Liquid level sensor for automatic working/operation
- Gauges to display filter clogging

APPLICATIONS

- Jewellery and goldsmith industry
- Hand washing stations
- Suitable for small volumes of ultrasonic exhausted liquid

Standard Version



U-104-B02-P-000-G

Combo Version



U-3C1-104-B02-P-120-G

FILTER MEDIA

FILTER BAGS

Size1 180x400



25/50 µm

Size4 100x400



0,5/1µm absolute

CARTRIDGES

Wired



1/5/10/20/50 µm

Pleated



50/25 µm

Pleated



0,2 µm absolute

DISCS

Paper Filter



D150 IF250

Carbon Filter



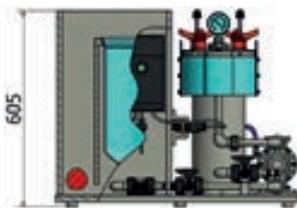
D150

MODEL	Filtering System 1	Filtering System 2	Pump	Pump Material	Sink Q.ty	Faucet Q.ty	Round Tank	Gauge
U	104 3C1 3D1	000	B02 MCB	P=PP	0 1	0 1 2	0=Rectangular T=Round	0=no Gauge G=Analog D=Digital
	3C1	104 3C1 3D1						
	010 020	010 020						
U	3C1	104	B02	P	1	2	T	G

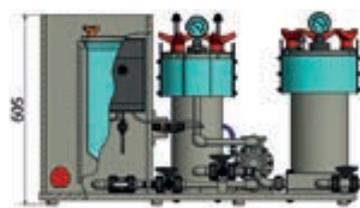
Coding example

FILTERING SYSTEMS					
184	104	3C1	3D1	010	020
N°1 Bag Size1	N°1 Bag Size4	N°3 cartridges 10"	N°28 Discs D150 mm	N°1 cartridge 10"	N°1 cartridge 20"

DIMENSIONS



U-104/3C1/3D1-B02/MCB



U-3C1-104/3C1/3D1-B02/MCB



U-010/020-010/020-B02/MCB



Product Range: PUMP: Magnetic Drive, Horizontal, Mechanical Seal, Vertical, Diaphragm, Drum, - FILTERING SYSTEMS – PRECIOUS METAL RECOVERY SYSTEMS – DEPURATION – FILTERS: String Wound Cartridges, Melt Blown, Filtering Disks, Bag Filters, Plated Filter Cartridges, Absolute – ACCESSORIES: Gratings, Venturi Eductor – CUSTOMIZED COMPONENTS.

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Diaphragm PUMPS



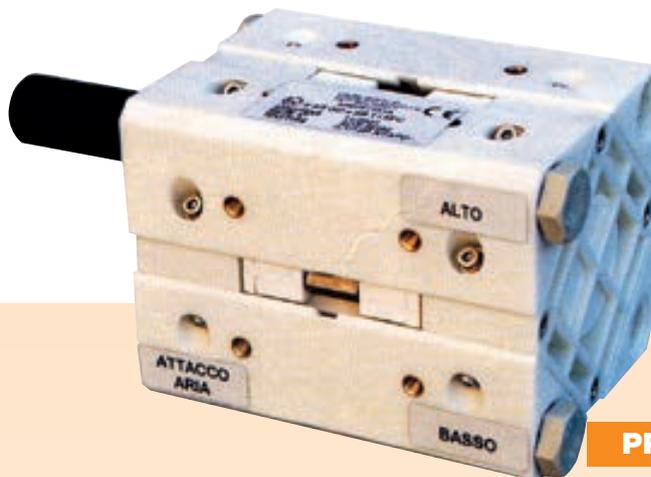
POMPE A MEMBRANA

DIAPHRAGM PUMPS

CU15



PVDF



PP

DATI TECNICI TECNICAL DATA

CU15

Attacchi entrata uscita * <i>Inlet outlet*</i>	3 / 8" F GAS
Attacco aria <i>Air connection</i>	31 / 8" F GAS
Capacità autoadescamento** <i>Max. self-priming capacity**</i>	3 m
Portata Max. ** <i>Max. flow rate**</i>	17 l/min
Prevalenza Max.** <i>Total head**</i>	70 m
Pressione Max. alimentazione aria <i>Max. air supply pressure</i>	7 bar
Massimo diametro passaggio ammissibile solidi <i>Max. diameter of passing solids (spherical particles)</i>	0,5 mm

Mod. <i>Mod.</i>	Materiali di costruzione <i>Construction materials</i>	Peso <i>Weight</i>	Max. operating temp. <i>Max. operating temp.</i>
CU15	PP	1 Kg	60°C
	PVDF	1,5 Kg	95°C

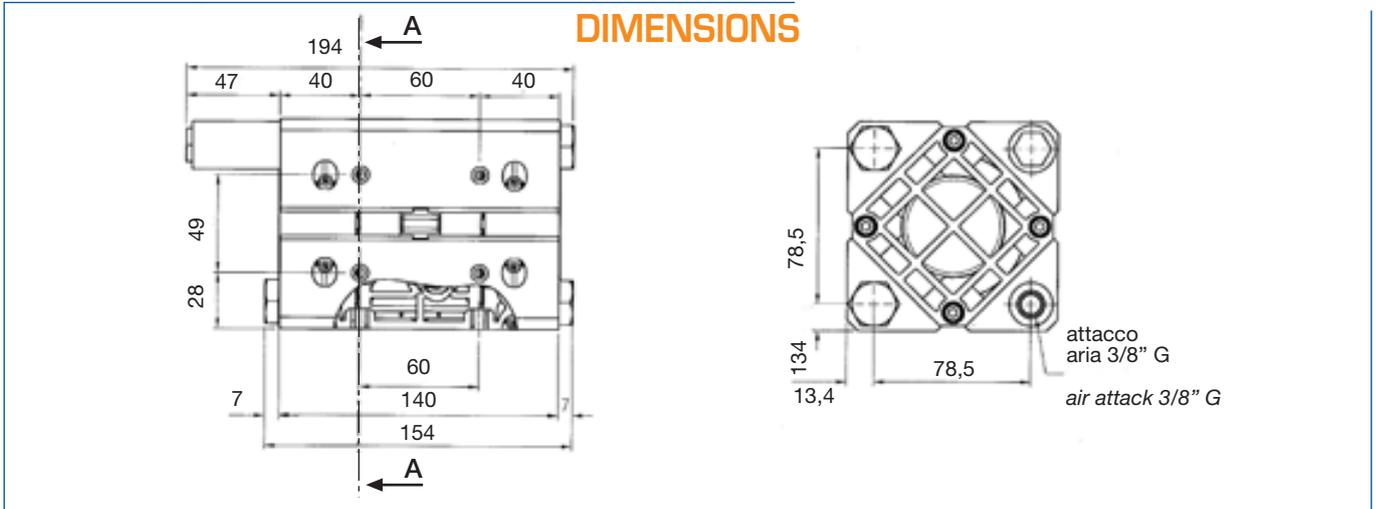
POMPE A MEMBRANA

DIAPHRAGM PUMPS

CU15

DIMENSIONI

DIMENSIONS



CU15

CURVE

PERFORMANCE

- Pressione aria
Air supply pressure
- Consumo aria
Air consumption l/min

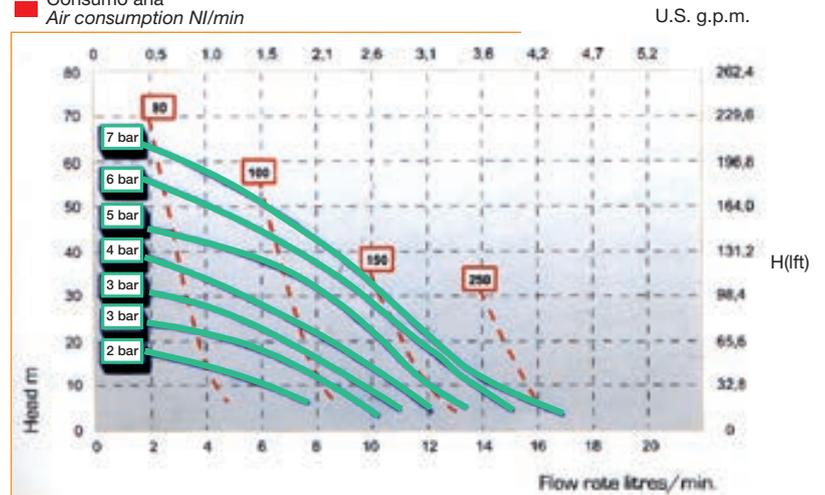


TABELLA MATERIALI

PUMP MATERIALS

Modello <i>Model</i>	Corpo pompa <i>Pump body</i>	Membrana lato aria <i>Membrane air side</i>	Membrana PTFE <i>Membrane PTFE</i>	Sfere <i>Balls</i>	Sedi sfere <i>Balls housing</i>	O-ring <i>O-ring</i>	Collettore sdoppiato <i>Twin manifold</i>
CU15	P = PP F = PVDF AL = Alluminio <i>Alluminium</i> A = AISI 316 <i>ss 316</i>	N = NBR D = EPDM H = Hytrel M = Santoprene	T= Quando richiesto <i>T = When required</i>	T= PTFE A = AISI 316 <i>ss 316</i> C = Ceramica <i>Ceramic</i> G = Vetro <i>Glass</i> N = NBR D = EPDM	P = PP F = PVDF A = AISI 316 <i>ss 316</i> I = HMW R = PPS-V	D = EPDM V = Viton S = Silicone N = NBR T = PTFE	X = Quando richiesto <i>X = When required</i>

POMPE A MEMBRANA

DIAPHRAGM PUMPS

MCB - BX05



PVDF



PP



ALU



AISI 316

DATI TECNICI TECNICAL DATA

MCB

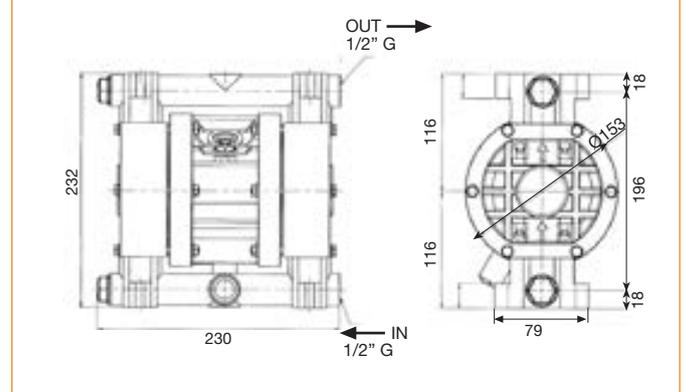
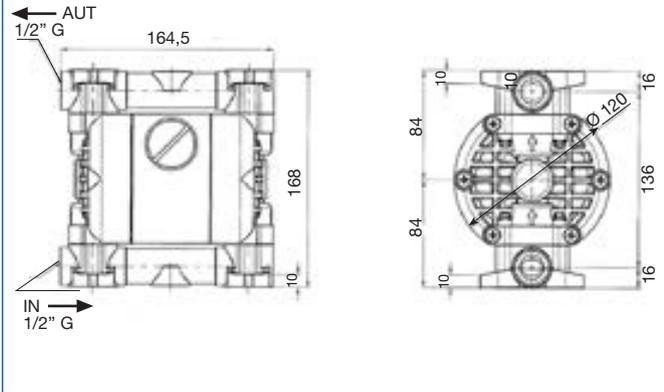
BX05

Attacchi entrata uscita * <i>Inlet outlet*</i>	1 / 2" F GAS	1 / 2" F GAS	
Attacco aria <i>Air connection</i>	1 / 4" F GAS	3 / 8" F GAS	
Capacità autoadescamento** <i>Max. self-priming capacity**</i>	6 m	5 m	
Portata Max. ** <i>Max. flow rate**</i>	30 l/min	50 l/min	
Prevalenza Max. ** <i>Total head**</i>	70 m	70 m	
Pressione Max. alimentazione aria <i>Max. air supply pressure</i>	7 bar	7 bar	
Massimo diametro passaggio ammissibile solidi <i>Max. diameter of passing solids (spherical particles)</i>	2 mm	4 mm	
Mod. <i>Mod.</i>	Materiali di costruzione <i>Construction materials</i>	Peso <i>Weight</i>	Max. operating temp. <i>Max. operating temp.</i>
MCB	PP	1,6 Kg	60°C
	PVDF	1,9 Kg	95°C
	Alu	2 Kg	95°C
	Aisi 316	3,8 Kg	95°C
BX05	PP	3,6 Kg	60°C
	PVDF	4,2 Kg	95°C
	Alu	4 Kg	95°C
	Aisi 316	6,5 Kg	95°C

* Attacchi flange a richiesta
Flanged attacks on request

** Dipende dai materiali costruttivi
Depends on used material

DIMENSIONI DIMENSIONS



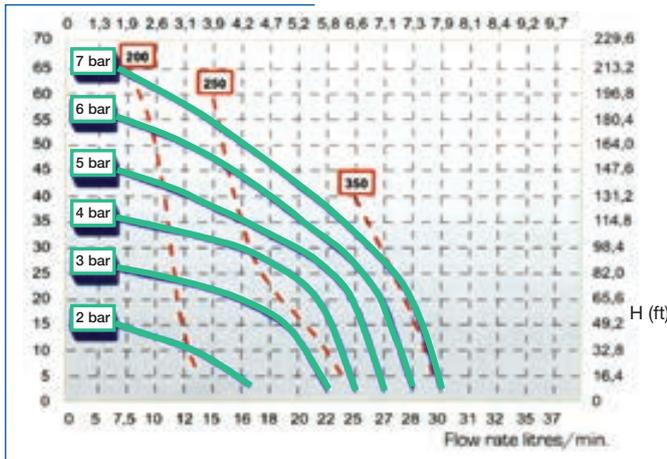
MCB

CURVE PERFORMANCE

BX05

- Pressione aria
Air supply pressure
- Consumo aria
Air consumption NI/min

U.S. g.p.m.



- Pressione aria
Air supply pressure
- Consumo aria
Air consumption NI/min

U.S. g.p.m.

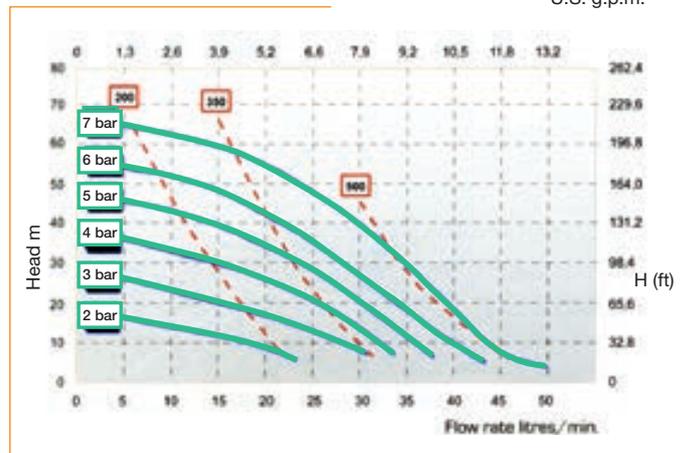


TABELLA MATERIALI

PUMP MATERIALS

Modello <i>Model</i>	Corpo pompa <i>Pump body</i>	membrana lato aria <i>Membrane air side</i>	Membrana PTFE <i>Membrane PTFE</i>	Sfere <i>Balls</i>	Sedi sfere <i>Balls housing</i>	O-ring <i>O-ring</i>	Collettore sdoppiato <i>Twin manifold</i>
MCB BX05	P = PP F = PVDF AL = Alluminio <i>Alluminium</i> A = AISI 316 <i>ss 316</i>	N = NBR D = EPDM H = Hytrel M = Santoprene	T= Quando richiesto <i>T = When required</i>	T= PTFE A = AISI 316 <i>ss 316</i> C = Ceramica <i>Ceramic</i> G = Vetro <i>Glass</i> N = NBR D = EPDM	P = PP F = PVDF A = AISI 316 <i>ss 316</i> I = HMW R = PPS-V	D = EPDM V = Viton S = Silicone N = NBR T = PTFE	X = Quando richiesto <i>X = When required</i>

POMPE A MEMBRANA

DIAPHRAGM PUMPS

BX09-BX10



PVDF



AISI 316



ALU



PP

DATI TECNICI

TECNICAL DATA

BX09

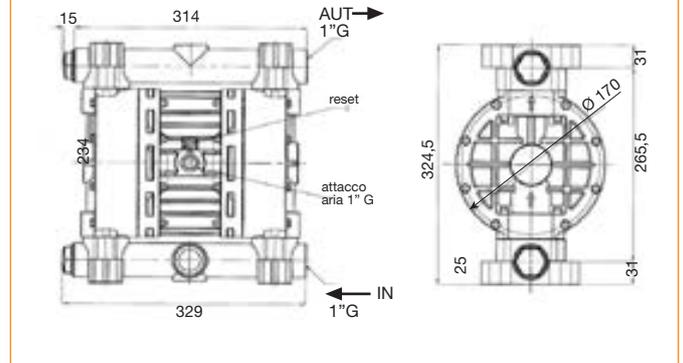
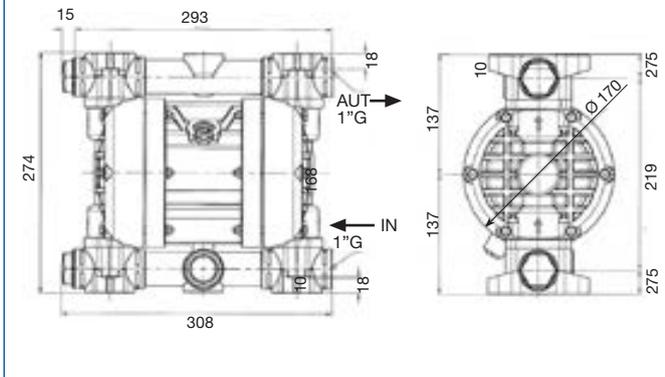
BX10

Attacchi entrata uscita * <i>Inlet outlet*</i>	1" GAS	1" GAS	
Attacco aria <i>Air connection</i>	3 / 8" F GAS	1 / 2" F GAS	
Capacità autoadescamento** <i>Max. self-priming capacity**</i>	6 m	5 m	
Portata Max. ** <i>Max. flow rate**</i>	100 l/min	150 l/min	
Prevalenza Max.** <i>Total head**</i>	70 m	70 m	
Pressione Max. alimentazione aria <i>Max. air supply pressure</i>	7 bar	7 bar	
Massimo diametro passaggio ammissibile solidi <i>Max. diameter of passing solids (spherical particles)</i>	4 mm	4 mm	
Mod. <i>Mod.</i>	Materiali di costruzione <i>Construction materials</i>	Peso <i>Weight</i>	Max. operating temp. <i>Max. operating temp.</i>
BX09	PP	5 Kg	60°C
	PVDF	6,5 Kg	95°C
	Alu	6,5 Kg	95°C
	Aisi 316	10,5 Kg	95°C
BX10	PP	7,5 Kg	60°C
	PVDF	8,5 Kg	95°C
	Alu	8,2 Kg	95°C
	Aisi 316	11 Kg	95°C

* Attacchi flange a richiesta
Flanged attacks on request

** Dipende dai materiali costruttivi
Depends on used material

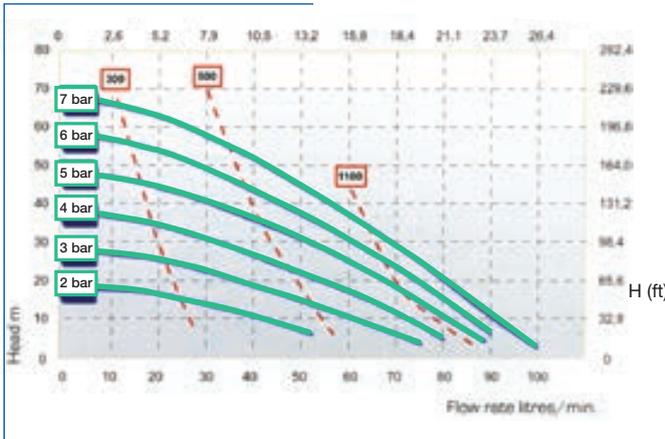
DIMENSIONI DIMENSIONS



BX09

■ Pressione aria
Air supply pressure

■ Consumo aria
Air consumption NI/min

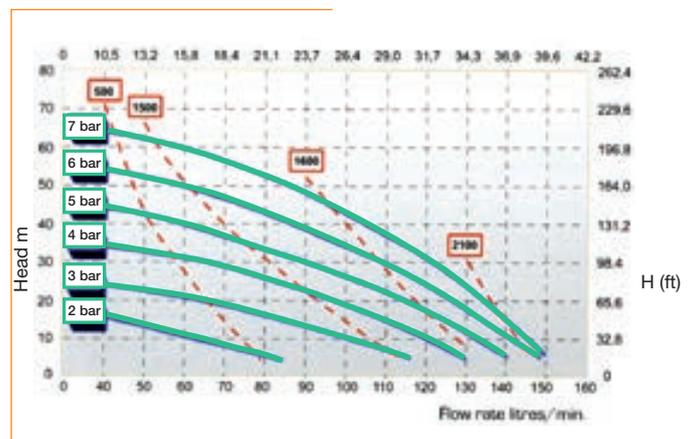


CURVE PERFORMANCE

U.S. g.p.m.

■ Pressione aria
Air supply pressure

■ Consumo aria
Air consumption NI/min



U.S. g.p.m.

TABELLA MATERIALI

PUMP MATERIALS

Modello	Corpo pompa	membrana lato aria	Membrana PTFE	Sfere	Sedi sfere	O-ring	Collettore sdoppiato
Model	Pump body	Membrane air side	Membrane PTFE	Balls	Balls housing	O-ring	Twin manifold
BX09 BX10	P = PP F = PVDF AL = Alluminio Alluminium A = AISI 316 ss 316	N = NBR D = EPDM H = Hytrel M = Santoprene	T= Quando richiesto T = When required	T= PTFE A = AISI 316 ss 316 C = Ceramica Ceramic G = Vetro Glass N = NBR D = EPDM	P = PP F = PVDF A = AISI 316 ss 316 I = HMW R = PPS-V	D = EPDM V = Viton S = Silicone N = NBR T = PTFE	X = Quando richiesto X = When required



PP



PVDF+CF



ALU



SS

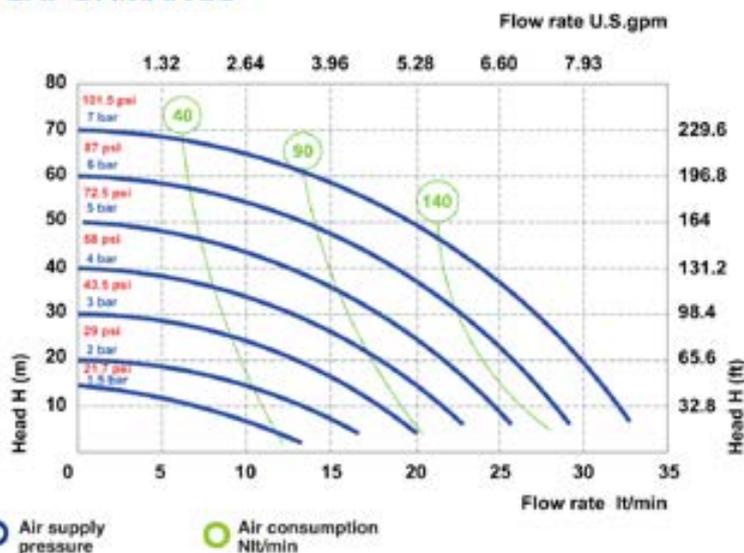
TECHNICAL DATA

Fluid connections	1/2" BSP
Air connection	6 mm
Max. Flow rate	35 lt/min
Max air pressure	7 bar
Max delivery head	70 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	3 mm
Noise level:	65 dB
Max Viscosity:	15.000 cps
Displacement per Stroke:	65 CC ~

Ⓢ II 3/3 G Ex h IIB T4 Gc
Ⓢ II -/3 D Ex h IIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

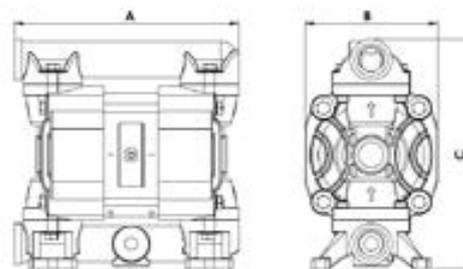
PERFORMANCE



The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	A	B	C	Net Weight	Temperature
PP	177 mm	105 mm	185 mm	1,8 Kg	- 4°C + 65°C
PVDF	177 mm	105 mm	185 mm	2,3 Kg	- 20°C + 95°C
ALU	183 mm	110 mm	189 mm	2,8 Kg	- 20°C + 95°C
SS	181 mm	106 mm	192 mm	3,8 Kg	- 20°C + 95°C



COMPOSITION

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
BH02	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD



PP



PVDF+CF



ALU



SS

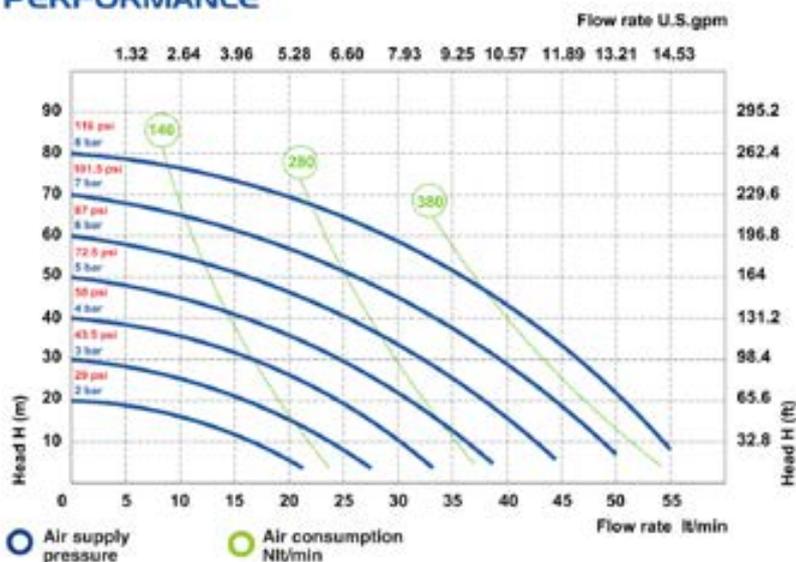
TECHNICAL DATA

Fluid connections	1/2" BSP
Air connection	1/4" BSP
Max. Flow rate	55 lt/min
Max air pressure	8 bar
Max delivery head	80 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	3,5 mm
Noise level:	70 dB
Max Viscosity:	20.000 cps
Displacement per Stroke:	140 CC ~

- Ⓢ II 3/3 G Ex h IIB T4 Gc
- Ⓢ II -/3 D Ex h III B T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

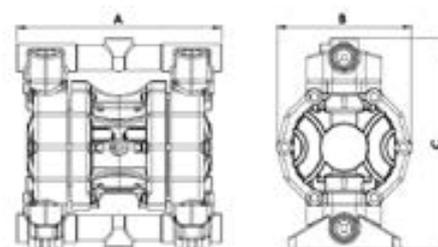
PERFORMANCE



The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	A	B	C	Net Weight	Temperature
PP	238 mm	156 mm	249 mm	3,8 Kg	- 4°C + 65°C
PVDF	238 mm	156 mm	249 mm	4,8 Kg	- 20°C + 95°C
ALU	234 mm	156 mm	245 mm	3,8 Kg	- 20°C + 95°C
SS	234 mm	156 mm	268 mm	6,8 Kg	- 20°C + 95°C



COMPOSITION

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
BH03	P = PP KC = PVDF+CF S = SS A = ALU	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF S = SS Z = PE-UHMWE A = ALU	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2 AB = STANDARD	



PP



PVDF+CF



SS

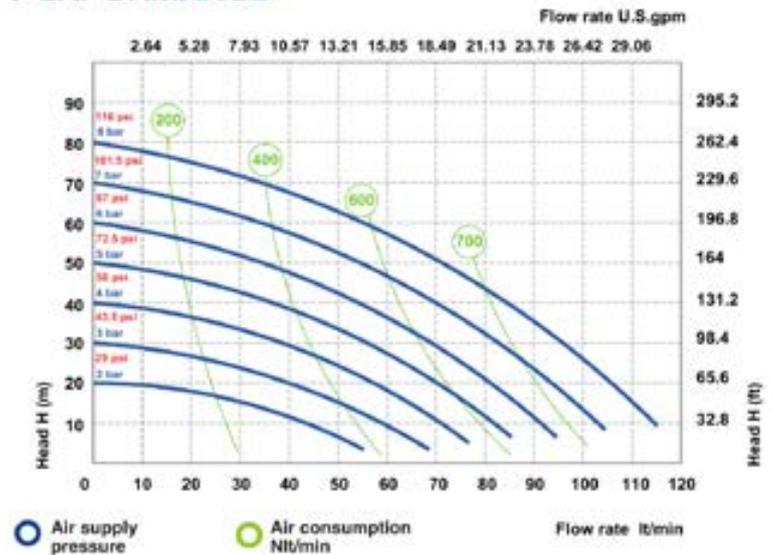
TECHNICAL DATA

Fluid connections	1" BSP
Air connection	3/8" BSP
Max. Flow rate	120 lt/mm
Max air pressure	8 bar
Max delivery head	80 m
Max Suction Lift Dry	5 m
Max Suction Lift Wet	9,8 m
Max Solid passing	4 mm
Noise level:	72 dB
Max Viscosity:	25.000 cps
Displacement per Stroke:	200 CC ~

II 3/3 G Ex h IIB T4 Gc
II -/3 D Ex h IIB T135°C Dc X

Displacement per stroke may vary based on suction condition, discharge head, air pressure and fluid type.

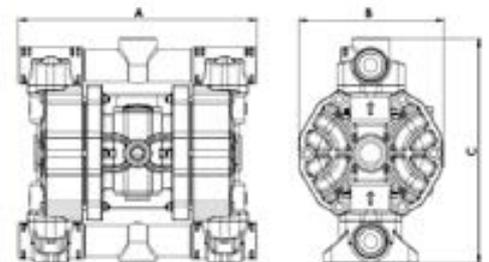
PERFORMANCE



The curves and performance values refer to pumps with submerged suction and free delivery outlet, with water at 20°C. These data may vary according to the construction materials and hydraulic conditions.

DIMENSIONS

	A	B	C	Net Weight	Temperature
PP	293 mm	178 mm	280 mm	5,6 Kg	- 4°C + 65°C
PVDF	293 mm	178 mm	280 mm	7,6 Kg	- 20°C + 95°C
SS	258 mm	177 mm	295 mm	9,6 Kg	- 20°C + 95°C



COMPOSITION

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
BH07	P = PP KC = PVDF+CF S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	- = zone 2	AB = STANDARD

lafonte.eu[®]

Magnetic drive PUMPS





ADVANTAGES

- Accidentally dry run capability with carbon impeller bearing
- Energy saving

FEATURES

- Seal less magnetic drive coupling
- Tmax exercise: PP 80°C - PVDF 98°C
- Connections:
 - socket union for rigid piping connection with PP, PVC, PVDF union ends choice
 - hose barb for hose connetctions
 - flanged

APPLICATION FIELDS

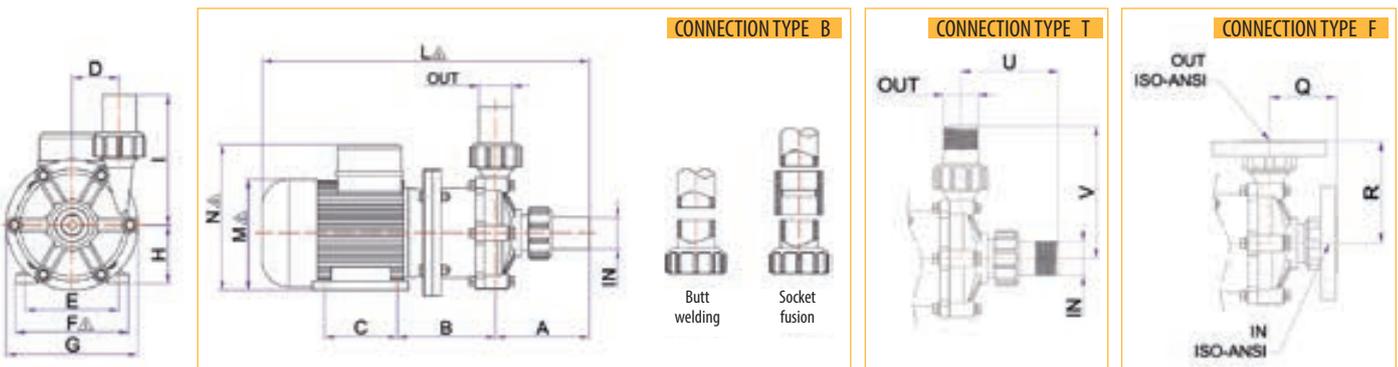
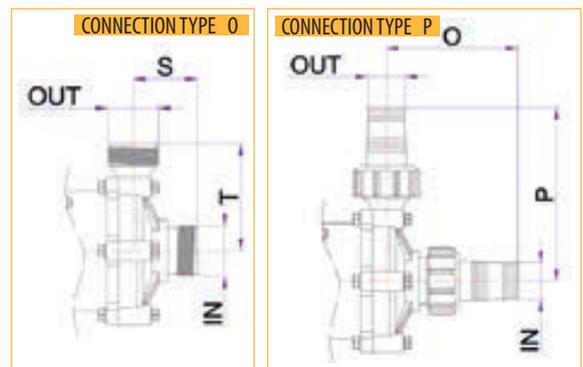
- Acid and alkaline soutions with minimal solid suspended particles
- Electroplating, Chemical and PCB industry



SPECIFICATIONS

	Flow Rate max (l/min.)	Head max (m)	Motor (kw)	IN - OUT (mm)			T max (°C)	Weight* (kg)
				CONNECTION TYPE B-P-F	CONNECTION TYPE O	CONNECTION TYPE T		
50 Hz	112	10	0,25	D32 - D32	1 1/4" - 1 1/4"	1" - 1"	PP: 80	PP: 6,00
60 Hz	121	12	0,37				PVDF: 98	PVDF: 7,00

* It depends on the motor



Dimensions:

Mod.	A	B	C	D	E	F Δ	G	H	I	L Δ	M Δ	N Δ	O	P	Q	R	S	T	U	V
EVT7	88,0	108,5	80	50	100	120	140	63	125	345	120	162	113,0	150	68,0	105	50	90	93	130

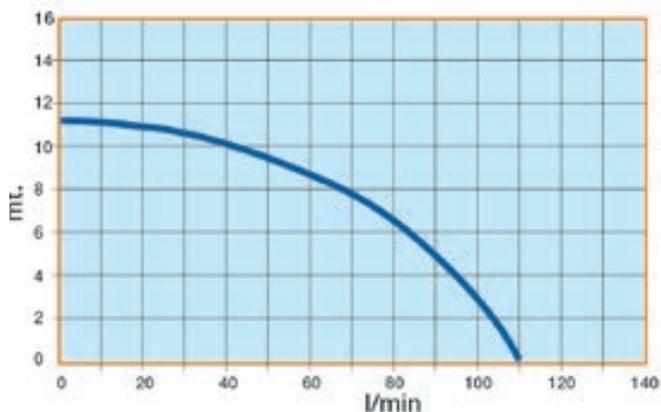
Δ It may change according to motor brand

PUMP IDENTIFICATION

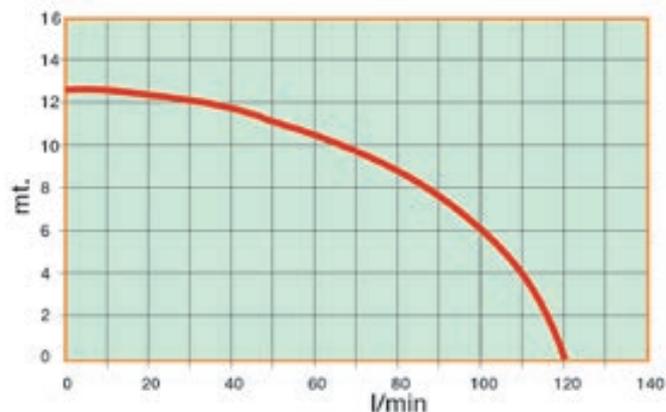
Model	Material Pump Body	Material Impeller	Material Shaft	Material Impeller Bush	Material O-Ring	Connection		Motor / rpm
						Type	IN-OUT	
EVT 7	P = PP F = PVDF	P = PP F = PVDF	C = Ceramic	T = PTFE G = Carbon C = Ceramic	E = EPDM V = Viton	O = Threaded	1 1/4" - 1 1/4" (BSP-M)	A = 50 Hz / 2800 B = 60 Hz / 3400
						B = Socket Union P = Hose Barb F = Flanged	32mm - 32mm	
						T = BSP-M Union End	1" - 1" (BSP-M)	
EVT 7	P	P	C	G	E	B		A

EVT - Pumps have dry run accidentally capability when equipped with carbon impeller bearing

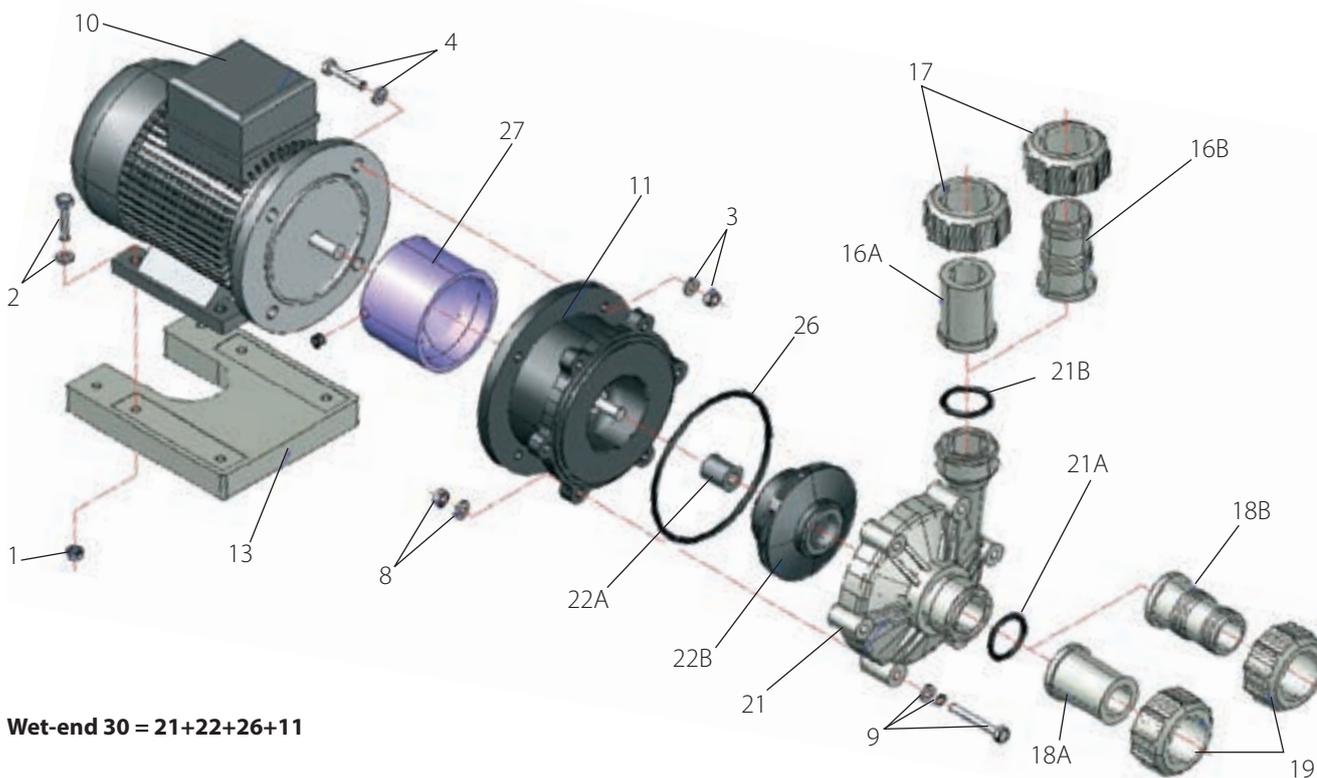
Performance Curve 50 Hz - Rpm 2800



Performance Curve 60 Hz - Rpm 3400



Curves refer to water T = 20°C



Wet-end 30 = 21+22+26+11

- | | | |
|-------------------------------------|--------------------------|------------------------|
| 10 Motor | 18 Suction connection | 22 Impeller assembly |
| 11 Bracket with rear casing & shaft | 18A Rigid piping suction | 22A Impeller bearing |
| 13 Base plate | 18B Suction stub | 22B Impeller & magnet |
| 16 Discharge connection | 19 Suction nut | 26 Pump housing O-Ring |
| 16A Discharge stub | 21 Pump housing | 27 Drive magnet |
| 16B Discharge hosebarb | 21A Suction O-Ring | |
| 17 Discharge nut | 21B Discharge O-Ring | |

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MPC 042 - MPP 031

Operating principle

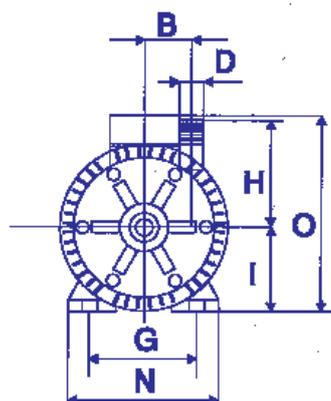
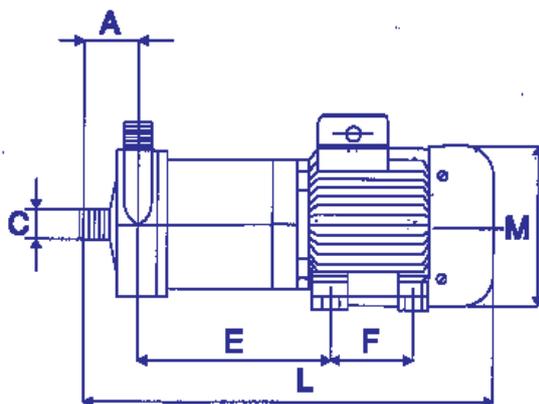
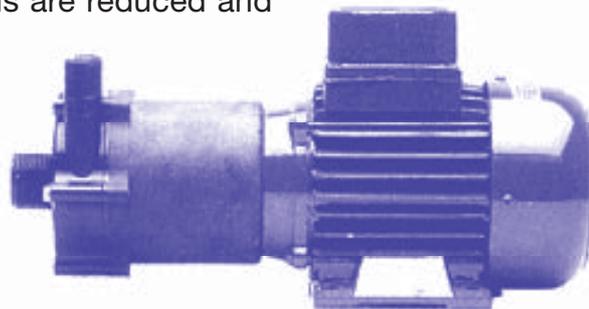
The distinctive feature of magnetic drive pump is the absence of a connection between motor and pump.

The rotation of the impeller is obtained by the magnetic force between two magnets : one is coupled to the motor, the other drives the impeller.

This construction guaranties the highest reliability and avoids any leakage, so maintenance interventions are reduced and simplified.

The materials used are:

- Polypropylene and PVDF for plastic components.
- Ceramics (Al₂O₃ 99,7%) for shaft and thrust ring.
- Rulon for bearings
- EPDM or Viton for the O-ring.



MODEL	MPC 042	-	MPP 031
A	38		34
B	36		30
C	1"		1/2"
D	1/2"		1/2"
E	109		115
F	71		71
G	90		90
H	72		63
I	56		56
L	280		279
M	110		110
N	107		112
O	128		150
WATT	120		90
PHASES	1		1-3
Rpm	2800/3450		2800/3450
KG	3,450		2,850

MPC 042 - MPP 031

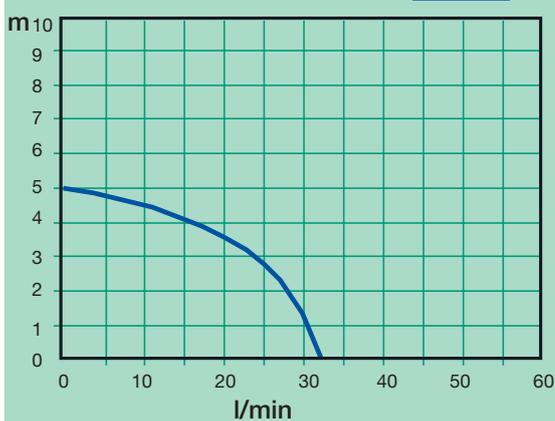
M A G N E T I C D R I V E P U M P S

DIRECTIVES:

- The pump should never run dry.
- Dirty liquids and crystals reduce the life of the bearings.
- The ambient temperature should be between 0 and 40 °C.
- Flame proof motors should be used in explosive atmospheres.
- The liquid should not crystallize in the pump.
- The maximum temperature of the pumped liquid should be: 70 °C (for PP) 95 °C (for PVDF)
- The pump is normal priming.

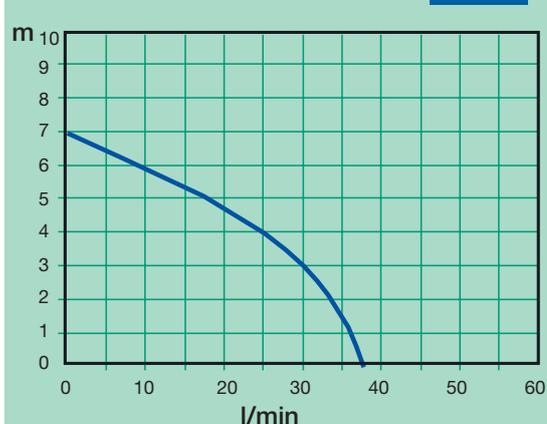
MPC 042 - MPP 031

50Hz



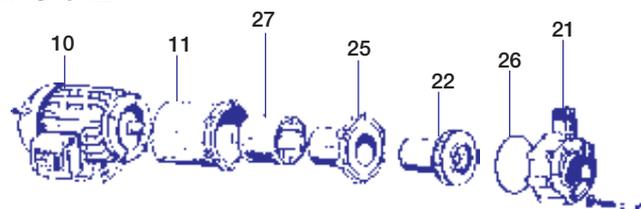
MPC 042 - MPP 031

60Hz



EXPLODED VIEW MAGNETIC DRIVE PUMP

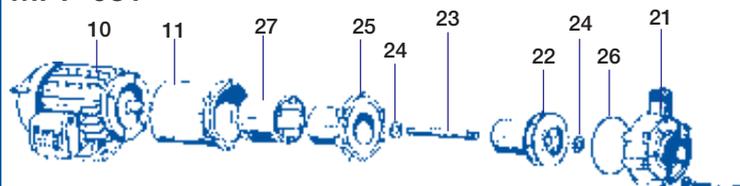
MPC 042



- | | |
|-----------------|----------------|
| 10 Motor | 22 Impeller |
| 11 Flange | 26 O-ring |
| 27 Drive magnet | 21 Pump casing |
| 25 Rear casing | |

Wet-end:
21+22+25+26 = 30

MPP 031



- | | |
|-----------------|----------------|
| 10 Motor | 23 Shaft |
| 11 Flange | 22 Impeller |
| 27 Drive magnet | 26 O-ring |
| 25 Rear casing | 21 Pump casing |
| 24 Thrust | |

Wet-end:
21+22+23+24+25+26 = 30

Curve references:
water at ambient temperature

MPP 051 - MPP 052

Operating principle

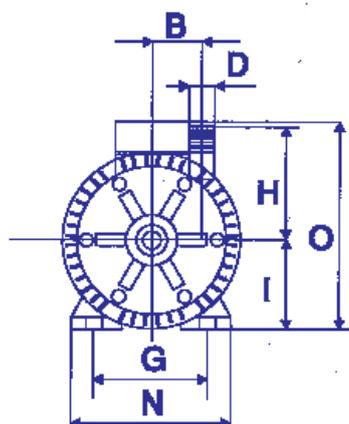
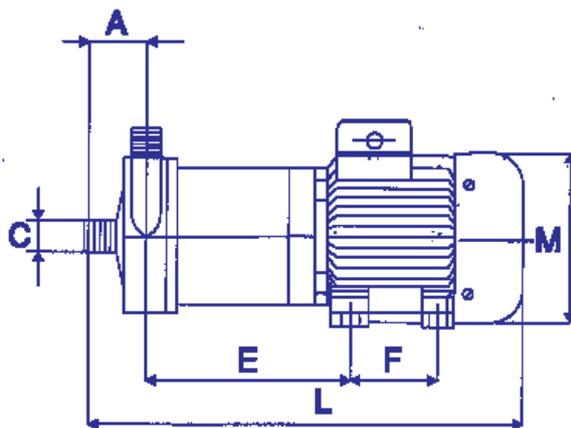
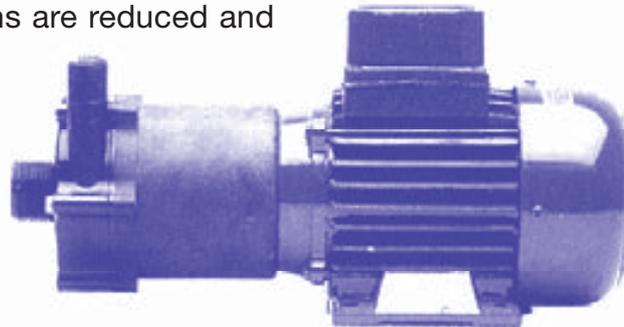
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The rotation of the impeller is obtained by the magnetic force between two magnets : one is coupled to the motor, the other drives the impeller.

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The materials used are:

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- Rulon for bearings
- EPDM or Viton for the O-ring.



MODEL MPP 051 - MPP 052

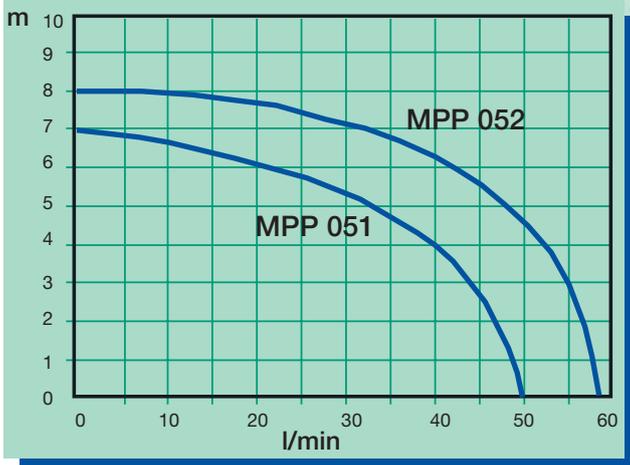
A	39
B	35
C	1"
D	1/2"
E	128
F	71
G	90
H	69
I	56
L	299
M	110
N	112
O	150
WATT	120
PHASES	1-3
Rpm	2800/3450
KG	4,000

MPP 051 - MPP 052

M A G N E T I C D R I V E P U M P S

MPP 051 - MPP 052

50Hz

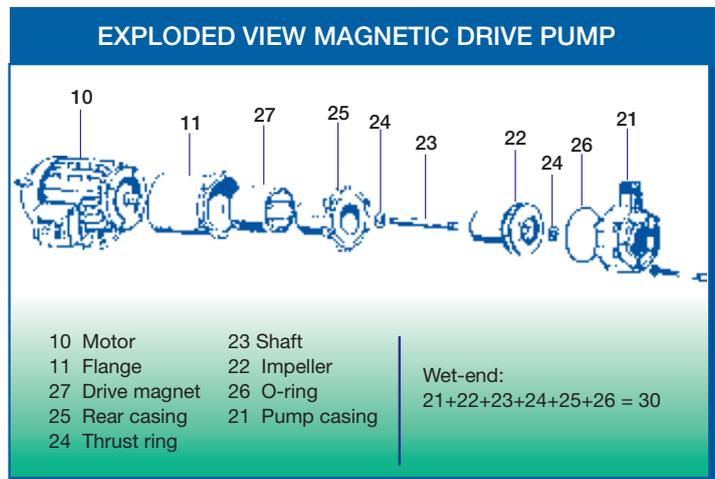
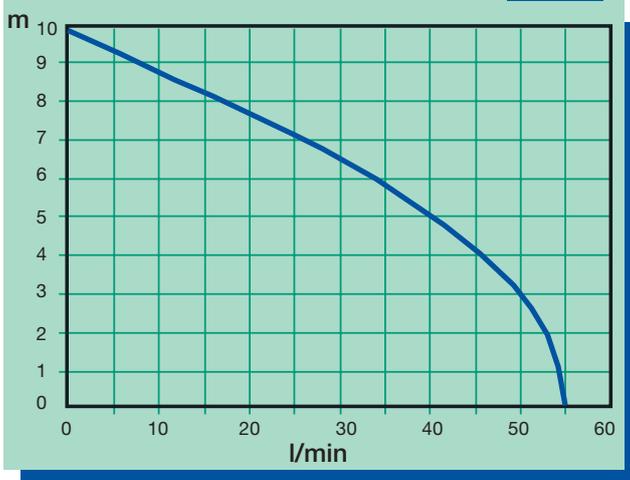


DIRECTIVES:

- The pump should never run dry.
- Dirty liquids and crystals reduce the life of the bearings.
- The ambient temperature should be between 0 and 40 °C.
- Flame proof motors should be used in explosive atmospheres.
- The liquid should not crystallize in the pump.
- The maximum temperature of the pumped liquid should be: 70 °C (for PP) 95 °C (for PVDF)
- The pump is normal priming.

MPP 051 - MPP 052

60Hz



Curve references:
water at ambient temperature

MPP 101 - MPP 201

Operating principle

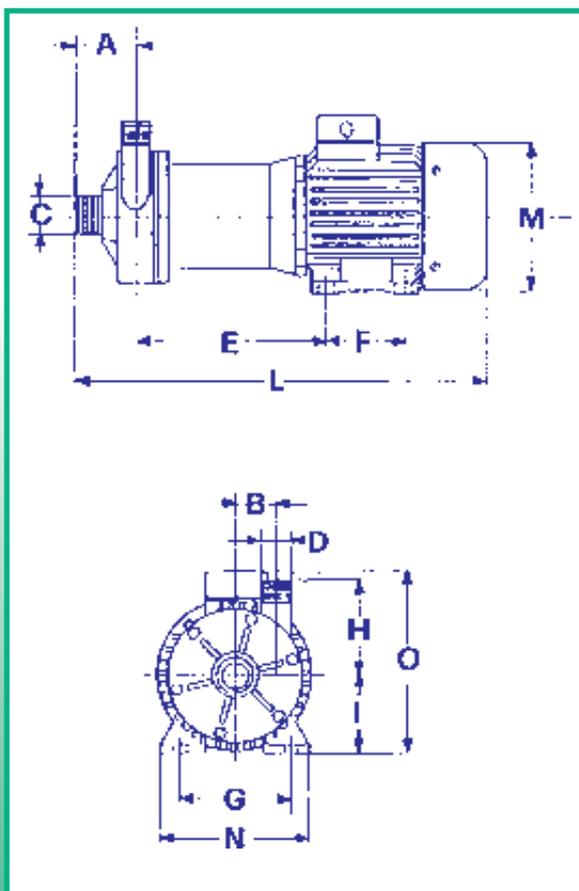
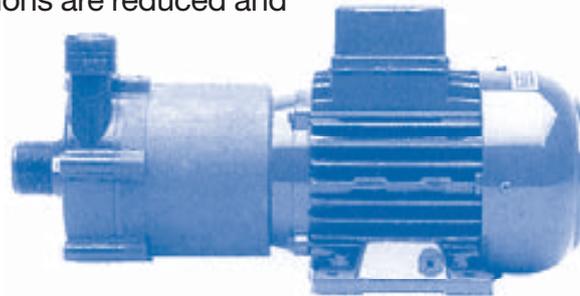
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- Ceramics (Al₂O₃ 99,7%) for shaft and thrust ring.
- Rulon for bearings
- EPDM or Viton for the O-ring.



MODEL	MPP 101	MPP 201
A	50	66
B	38	38,5
C	1"	1"1/2
D	1"	1"
E	144	160
F	80	90
G	100	112
H	84	99,5
I	63	71
L*	242	398
M*	126	137
N	124	144
O*	165	185
WATT	220	550
PHASES	1-3	1-3
Rpm	2800/3450	2800/3450
Kg*	5,700	8,6

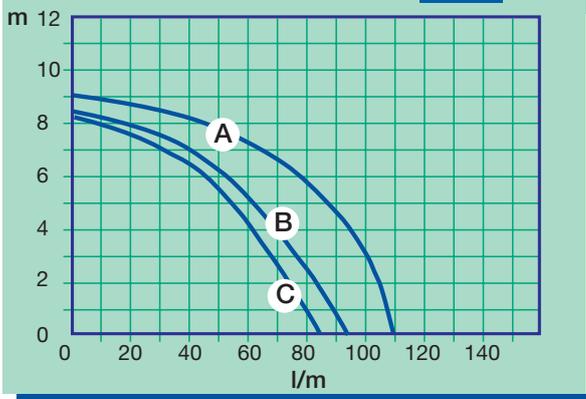
* It changes according to the assembled motor

MPP 101 - MPP 201

M A G N E T I C D R I V E P U M P S

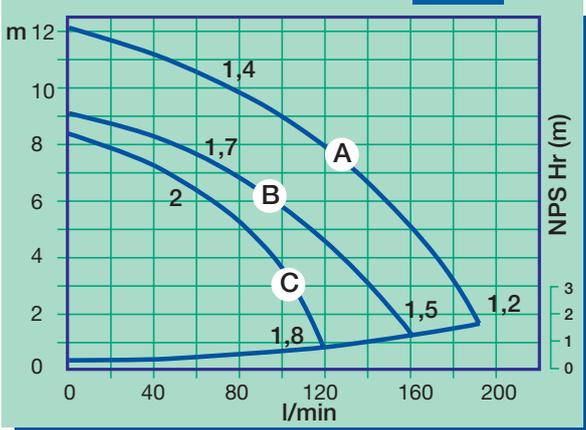
MPP 101

50Hz



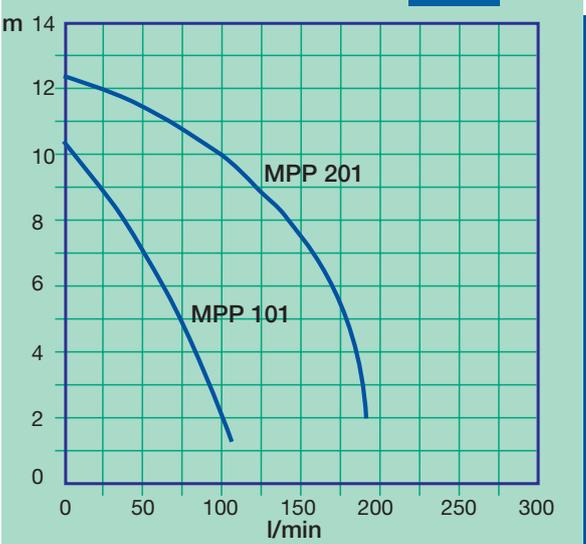
MPP 201

50Hz



MPP 101 - 201

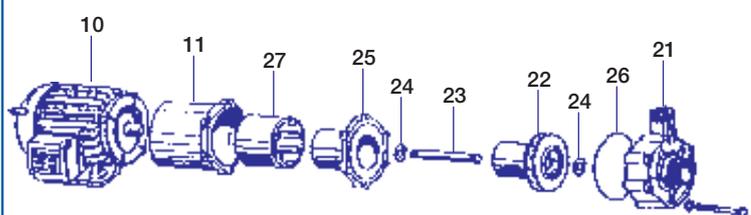
60Hz



DIRECTIVES:

- The pump should never run dry.
- Dirty liquids and crystals reduce the life of the bearings.
- The ambient temperature should be between 0 and 40 °C.
- Flame proof motors should be used in explosive atmospheres.
- The liquid should not crystallize in the pump.
- The maximum temperature of the pumped liquid should be: 70 °C (for PP) 95 °C (for PVDF)
- The pump is normal priming.

EXPLODED VIEW MAGNETIC DRIVE PUMP



- | | |
|-----------------|----------------|
| 10 Motor | 23 Shaft |
| 11 Flange | 22 Impeller |
| 27 Drive magnet | 24 Thrust ring |
| 25 Rear casing | 26 O-ring |
| 24 Thrust ring | 21 Pump casing |

Wet-end:
21+22+23+24+25+26 = 30

Curve references:
water at ambient temperature



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Vertical PUMPS





FEATURES

- PP and PVDF solid construction
- T max exercise: PP 75°C- PVDF 98°C
- Sleeved SS316 or Titanium shaft
- Connections: Socket union
- Gaskets: EPDM for PP, FPM for PVDF
- Pump body with SS or Ti bolts Closure System.
- Single or Three phase electric motor with extended shaft
- Optional PP Drip Proof Motor Fan Cover

APPLICATIONS

- Acid and alkaline solutions with minimal suspended solids
- Electroplating Industry
- PCB Industry
- Chemical Industry

ADVANTAGES

- Dry run capability
- Excellent chemical resistance due to absence of filling materials
- IN and OUT tank installation

		EYP03B	EYP08B	EYP10B	EYP15B	EYP20B	EASYP25B
Electric motor	Type	IE1			IE3		
Rpm	50/60 Hz	2900/3450					
Power	Kw/Hp	0,15/0,18	0,37/0,5	0,7/1	1,1/1,5	1,5/2	2,2/3
I* 230/400V 50 Hz	A	1/0,60	2,1/1,2	3,13/1,8	4,2/2,4	5,4/3,1	7,8/4,5
I* 266/460V 60 Hz	A	1,05/0,63	2,19/1,25	3,2/1,9	4,3/2,5	5,5/3,2	8,1/4,7
Qmax 50 Hz	l/min	45	85	150	260	340	420
Hmax 50 Hz	m	4,5	9	10	15	21	23
Qmax 60 Hz	l/min	50	90	170	280	360	450
Hmax 60 Hz	m	6	13	14	20	23	25
Tmax PP	°C	75					
Tmax PVDF	°C	98					
IN/OUT DN	mm	20/16	32/20	40/25	40/32	50/40	50/40
weight PP*	Kg	5,5	6,5	13	19,5	31	33
weight PVDF*		7	10	15	22	35	37

*Value could change according to motor brand

EASYP-BP



EASYP-BV



PUMP IDENTIFICATION

Model	Pump body	Shaft	Impeller type	Oring	Connections	Motor/Rpm	Optionals
EYP03B EYP08B EYP10B EYP15B EYP20B EYP25B	P = PP V = PVDF	X=AISI 316 T = Titanium	O = Standard 1 = Trimmed for high density 2 = High temp. standard 3 = High temp. Trimmed for high density	E = EPDM V = Viton F = FEP	B = Socket union T = Threaded	A = 50Hz/2900 B = 60Hz/3400	S = Strainer C = Drip proof motor lid
EYP20B	P	X	O	E	T	A	C

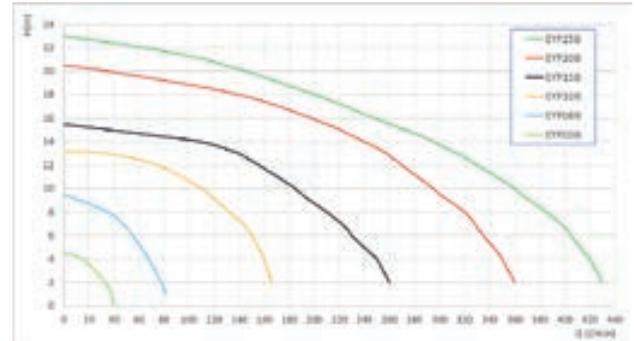
Exploded View



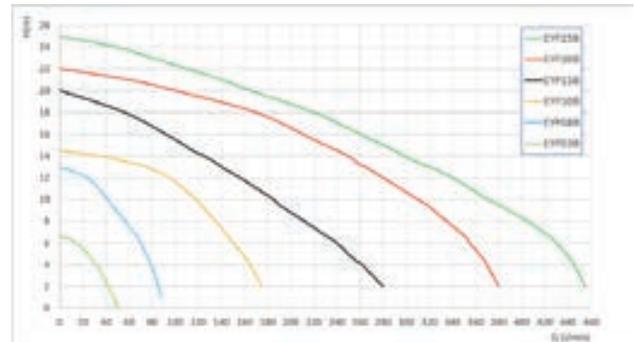
EXPLODED VIEW EASY PUMP

Part. N.	Description
1	Motor
2	Motor bolt
2a	Motor nut
3	Pump bolt
3a	Pump nut
4	MIMM sealing
5	Outlet pipe
6	Pump housing scerw
6a	Pump housing PP nut
7	Pump column
8	Pump housing O-ring - Set
9	Ogive
10	Impeller shaft
11	Pump housing
11a	Suction attack
12	Pump flange

Performance Curve 50 Hz - Rpm 2800

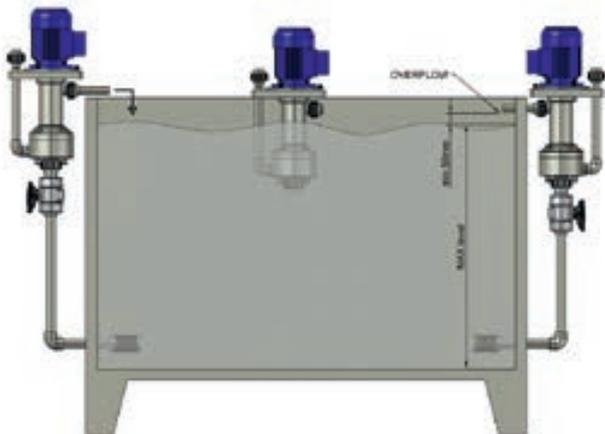


Performance Curve 60 Hz - Rpm 3400

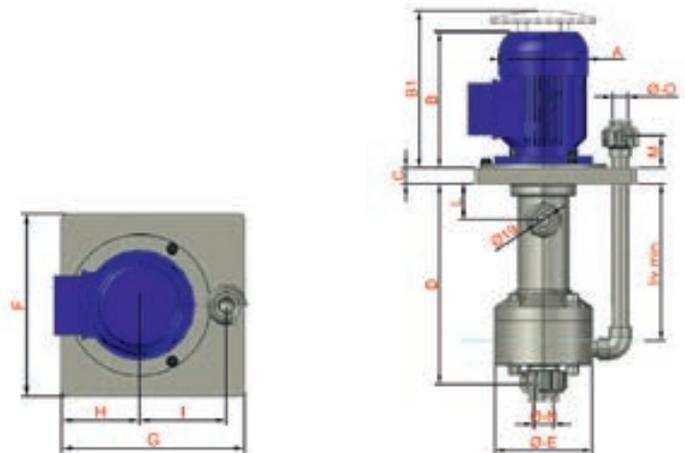


Curves referred to water=20°C

Installation



Dimensional drawing



Pump series EASYP-B

Mod	A	B	B1	C	D	Φ E	F	G	H	I	L	M	Φ - N	Φ - O	Liv. Min
EYP03B	110	170	195	20	251	120	200	200	85	95	45	40	25	20	195
EYP08B	120	193	218	20	330	140	220	310	110	108	45	50	40	25	275
EYP10B	135	225	250	20	411	160	250	320	123	130	50	50	50	32	330
EYP15B	175	255	280	20	430	180	290	350	145	142	50	50	50	40	365
EYP20B	175	325	350	30	420	200	320	450	160	220	65	50	63	50	345
EYP25B	175	325	350	30	420	200	320	450	160	220	65	50	63	50	345



FEATURES

- PP and PVDF solid construction
- T max exercise: PP 75°C- PVDF 98°C
- Sleeved SS316 or Titanium shaft
- Connections: Threaded or Socket union
- Gaskets: EPDM for PP, FPM for PVDF
- Pump body with threaded closure system, No bolts
- Single or Three phase electric motor with extended shaft
- Optional PP Drip Proof Motor Fan Cover

APPLICATIONS

- Acid and alkaline solutions with minimal suspended solids
- Electroplating Industry
- PCB Industry
- Chemical Industry

ADVANTAGES

- Dry run capability
- Excellent chemical resistance due to absence of filling materials
- IN and OUT tank installation

		EYP03N	EYP08N	EYP10N	EYP15N	EASYP25N
Electric motor	Type	IE1			IE3	
Rpm	50/60 Hz	2900/3450				
Power	Kw/Hp	0,15/0,18	0,37/0,5	0,7/1	1,1/1,5	2,2/3
I* 230/400V 50 Hz	A	1/0,60	2,1/1,2	3,13/1,8	4,2/2,4	7,8/4,5
I* 266/460V 60 Hz	A	1,05/0,63	2,19/1,25	3,2/1,9	4,3/2,5	8,1/4,7
Qmax 50 Hz	l/min	45	85	150	260	420
Hmax 50 Hz	m	4,5	9	10	15	23
Qmax 60 Hz	l/min	50	90	170	280	450
Hmax 60 Hz	m	6	13	14	20	25
Tmax PP	°C	75				
Tmax PVDF	°C	98				
IN/OUT DN	mm	20/16	32/20	40/25	40/32	50/40
weight pp*	Kg	5,5	6,5	13	19,5	33
weight PVDF*		7	10	15	22	37

*Value could change according to motor brand

EASYP-NP

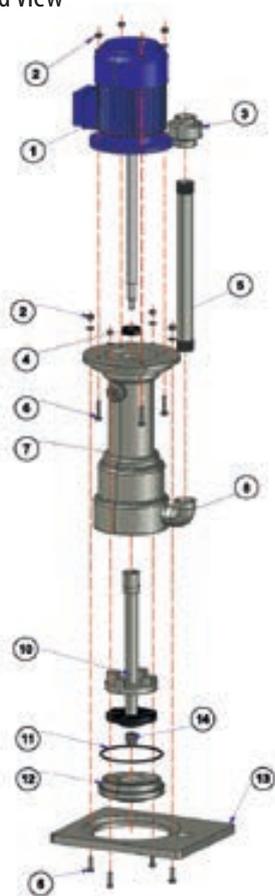


EASYP-NV

PUMP IDENTIFICATION

Model	Pump body	Shaft	Impeller type	Oring	Connections	Motor/Rpm	Optionals
EYP03N EYP08N EYP10N EYP15N EYP25N	P = PP V = PVDF	X=AISI 316 T = Titanium	O = Standard 1 = Trimmed for high density 2 = High temp. standard 3 = High temp. Trimmed for high density	E = EPDM V = Viton F = FEP	B = Socket union T = Threaded	A = 50Hz/2900 B = 60Hz/3400	S = Strainer C = Drip proof motor lid
EYP15N	P	X	O	E	T	A	C

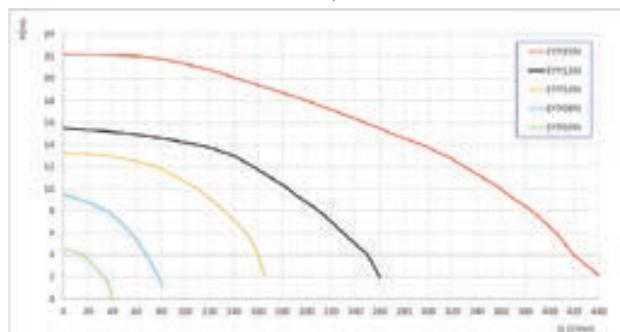
Exploded View



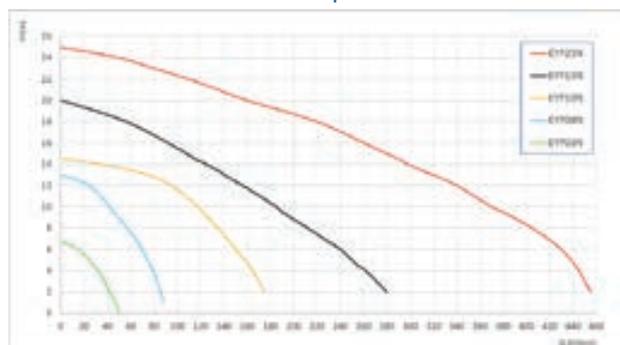
EXPLODED VIEW EASY PUMP

Part. N.	Description
1	Motor
2	Nut
3	Socket union (std. PVDF)
4	MIMM sealing
5	Outlet pipe
6	Bolt
7	Pump housing
8	Elbow
10	Impeller set
11	Pump housing O-ring
12	Pump head
13	Pump flange
14	Ogive

Performance Curve 50 Hz - Rpm 2800

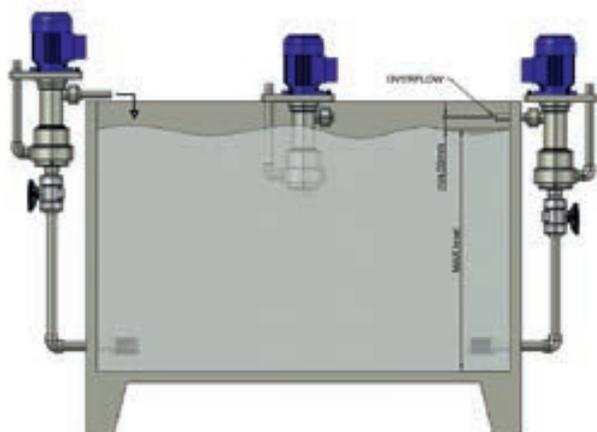


Performance Curve 60 Hz - Rpm 3400

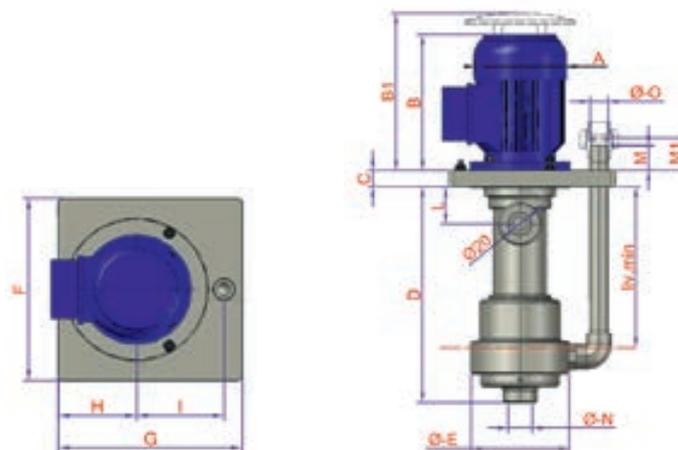


Curves referred to water=20°C

Installation



Dimensional drawing



Pump series EASYP-N

Mod	A	B	B1	C	D	Φ E	F	G	H	I	L	M	M1	Φ - N	Φ - O	Liv. Min
EYP03N	110	165	195	20	262	118	200	200	85	95	45	30	40	25	20	195
EYP08N	120	190	218	20	340	140	220	310	110	108	45	40	50	40	25	275
EYP10N	135	225	250	20	410	150	250	320	123	130	50	40	50	50	32	330
EYP15N	175	250	275	20	440	180	290	350	145	142	50	50	50	50	40	365
EYP25N	175	320	350	30	450	200	320	450	160	220	65	50	50	60	50	345



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Drum PUMPS





The drum pumps FL are especially suitable for pumping comparably small quantities out of containers such as canisters or drums of up to 200 litre. The outer tube diameter (max 32mm) allows pumping even out of narrow openings.

FEATURES

- Battery Model: completely wireless
- Brushless motor
- Motor with quickly replaceable storage battery
- Very short charging times
- Constant speed over entire battery service life
- Battery motor and pump connected by means of quick-action coupling
- Ergonomic design motor handle
- Small outer tube diameter
- Low overall weight
- Protection class IP 44
- Available also with Main Connection (cable) Motor
- Inner shaft in Hastelloy



TECHNICAL DATA

Pump	FL
Seal type	sealless
Outer tube materials	PP / PVDF
Outside diametere in mm	32 (PP)
	25 (PVDF)
Immersion lenght	500 / 700 / 1000 / 1200** mm
Viscosity max.	250 mPas
Delivery rate*	max. 57 l/min.

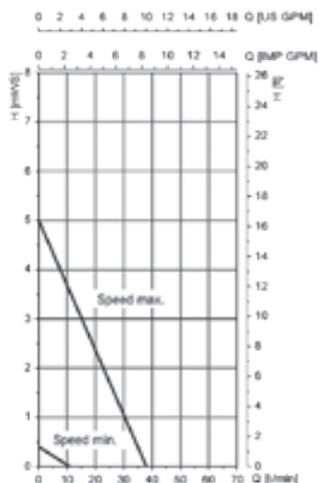
* measured at pump discharge with water (20°C.)

** 1200 mm available only PP

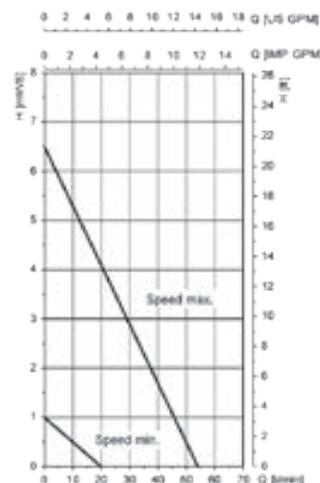
PUMP IDENTIFICATION

Model	Pump		Model	Motor
	Material	h (mm)		
FL	PP = P PVDF = F	500 = 0500	FL	Line Motor (220V) = FEMA
		700 = 0700		Battery Motor = FBMA
		1.000 = 1000		Battery Motor + Battery = KBAA
		1.200* = 1200		+ Charger
FL	P	0500	FL	KBAA

PVDF-25



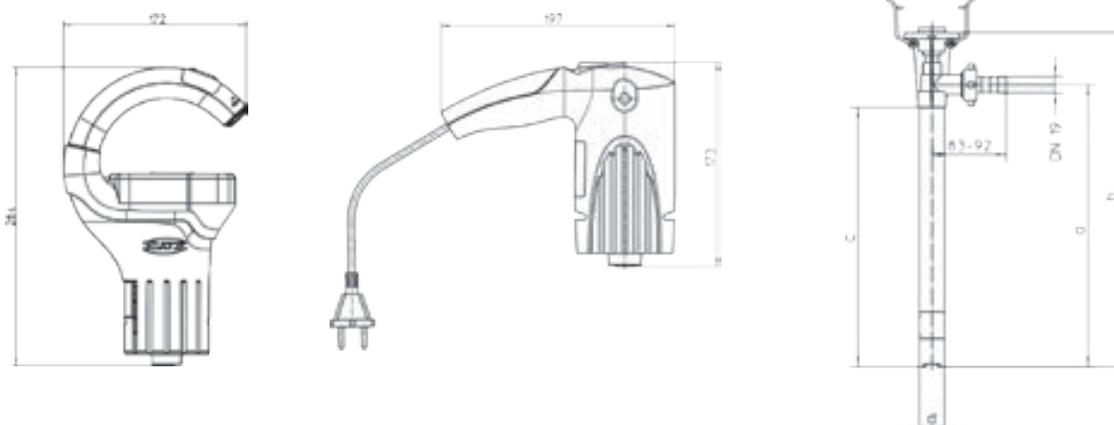
PP-32



Speed min. 5.000 rpm, speed max. 15.000 rpm

* measured with free outlet, water at 20°C, values ± 10%

** measured with water at 20°C



Immersion length	a	b	c	d
1.200	1.200	1.538	1.172	Ø 32
1.000	1.000	1.338	972	
700	700	1.038	672	
500	500	838	472	

Dimensions in mm



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FILTRATION SYSTEMS



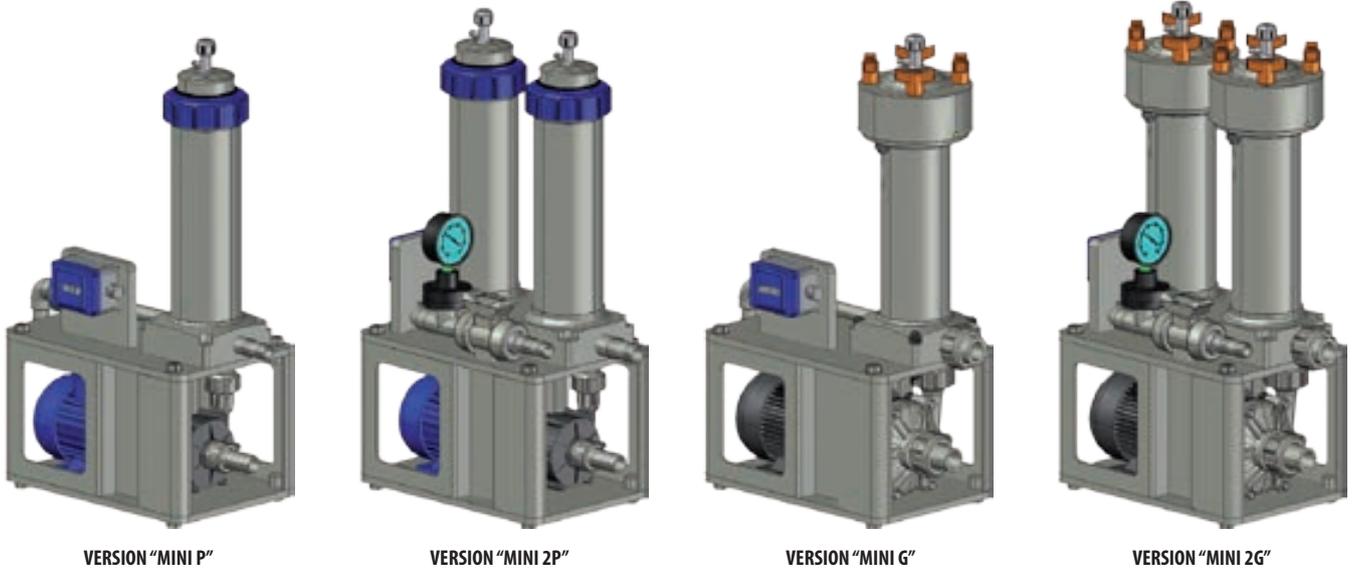
MINI Golden

- Magnetic drive pump PP PVDF 0,5 - 7 m³/h
- PP or PVDF solid monoblocc filter housing
- Fast locking by 4 PP M6 handles with bolts closure system
- Drain and vent valve
- Single or double housing version connecte in parallel
- Tmax = 75°C PP - 95°C PVDF
- Cartridge tight independant from cylinder lenght
- Waterproof switch



MINI Plus

- Magnetic drive pump PP PVDF 0,5 - 7 m³/h
- PP or PVDF solid monoblocc filter housing
- Plexiglass cylinder version
- Fast pocking by PP nut
- Drain and vent valve
- Single or double housing version connectel in parallel
- Tmax = 60°C Plexiglass - 70°C PP - 95°C PVDF
- Cartridge tight independant from cylinder lenght
- Waterproof switch



VERSION "MINI P"

VERSION "MINI 2P"

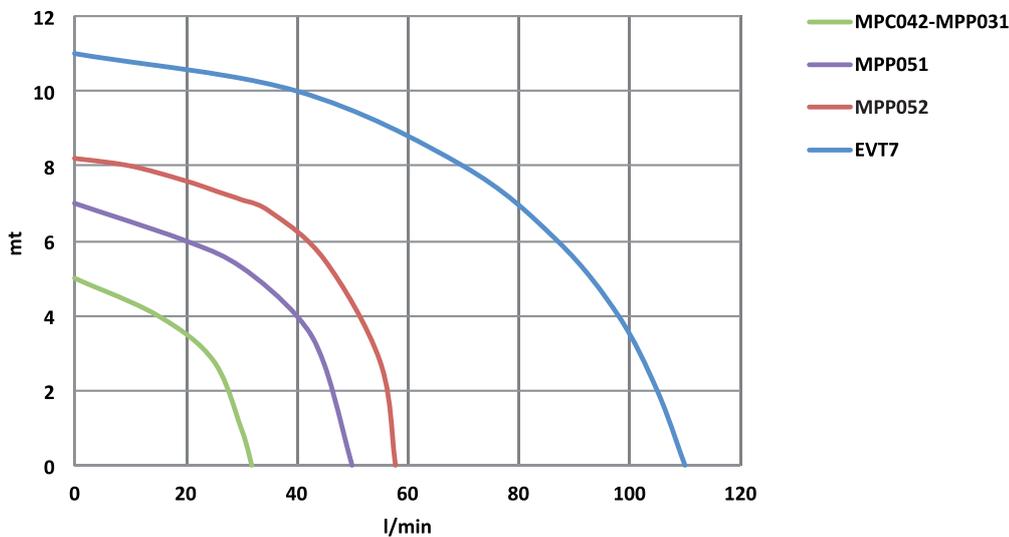
VERSION "MINI G"

VERSION "MINI 2G"

Mod	FILTER HOUSING				CONNECTION	PUMP		OPTIONALS
	MATERIAL	CARTRIDGE H"	VERSION	CHAMBERS N°		MAGNETIC DRIVE	MATERIAL	TYPE
MINI	_ = PP V = PVDF G = Plexiglass	10 20 30	P = Plus G = Golden	_ = One 2 = Two	P=Parallel	MPC042 MPP031 MPP051 MPP052 EVT7	_ = PP F = PVDF	I = interlock lis sensor (Only for version G) G = pressure gauge with guard
MINI	V	20	P			EVT7	F	G

50 Hz	EVT7	MPP051 MPP052	MPP031	MPC042
Kw	0,25	0,12	0,09	0,12
A* 230/1V	2,2	0,96	0,48	0,96
A* 230/400V	1,2/0,70	0,77/0,44	0,52/0,30	

* data can change accordind with motor type



LAFONTE.EU may modify data any time, without notice, in order to get product enhancement

FILTER UNITS MINI I

Technical Features:

- Seal less vertical pump
- IN/OUT Tank installation
- Lid fast locking system by PP nut or bolts
- Cartridge tightening independant from cylinder length
- Vent valve
- PP and PVDF version
- Tmax exercise 75°C – 95°C PVDF

Advantages:

- Practical
- Versatile
- Rugged construction
- Space Saver
- Drive run capability



FILTER UNITS MINI N

Technical Features:

- Single phase magnetic drive pump
- Cartridge tightening independant from cylinder length
- Lid fast locking system by PP nut
- Vent valve
- Switch, cable and plug included with pump motor
- Tmax exercise 60°C

Advantages:

- Practical
- Versatile
- Economical
- Space Saver



model MINI N



model MINI I - P



model MINI I - G

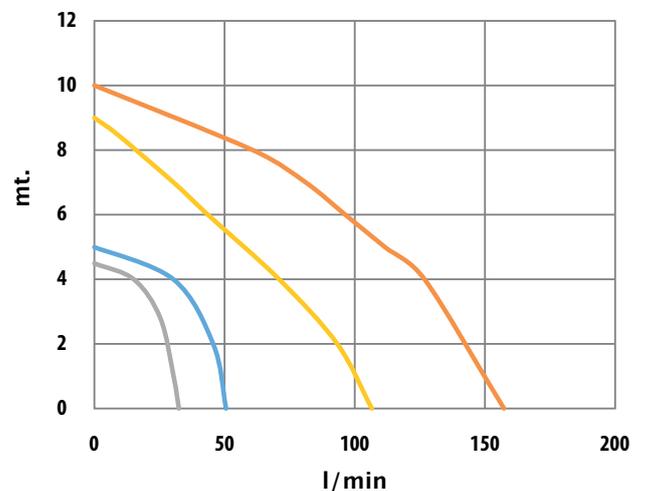
FILTER UNIT MINI I							
Mod	FILTER CHAMBER			SERIES	PUMP		OPTIONAL TYPE
	MATERIAL	CARTRIDGE H"	VERSION		VERTICAL	MATERIAL	
MINI	_=PP V=PVDF	10	P=Plus	I	EYP3N	_=PP V=PVDF	I=interlock sensor (only on G version) G=pressure gauge with guard
		20	G=Golden		EYP8N		
		30			EYP10N		
MINI	V	20	G	I	EYP8N	V	G

FILTER UNIT MINI N						
Mod	FILTER CHAMBER		SERIES	PUMP		OPTIONAL TYPE
	MATERIAL	CARTRIDGE H"		MAGNETIC	MATERIAL	
MINI	_=Plexiglass	4	N	MPC042	_=PP V=PVDF	
		10				
MINI		10	N	42		

	MPC042	EYP3N	EYP8N	EYP10N
Qmax (l/h)	1800	3000	6500	9600
KW	0,12	0,15	0,37	0,7
A (230/1V)	0,9			
A* (230/400V)		0,77/0,44	1,80/1,00	3,13/1,7

* data can change according with motor brand

— MPC042 — EYP8NP
— EYP3N — EYP10N



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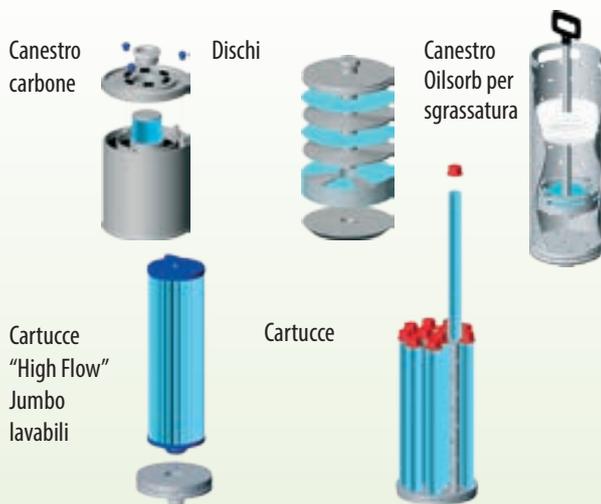
VANTAGGI

- Versatilità: 5 tipologie di filtrazione in una camera filtrante
- Ridotte dimensioni d'ingombro
- Pompe con possibilità di marcia a secco
- Camera filtro monoblocco
- Risparmio energetico
- Manutenzione agevole e rapida

CARATTERISTICHE

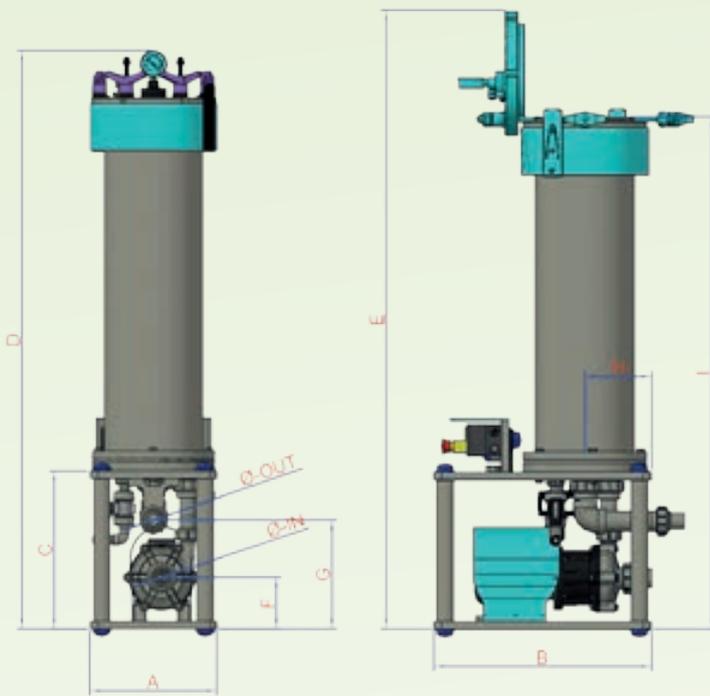
- Tmax esercizio 70° C (con tubazione rigida)
- Pompa magnetica e tenuta meccanica

TIPOLOGIE DI FILTRAZIONI



Serie	Camera filtrante					Elemento filtrante		Pompa		OPTIONAL	
	Dischi Dxn° (m²/l)*	Cartucce n° x l"	JUMBO DxH" (m²)	Oilsorb (l)	Carbone (l)	Dischi	Cartucce	Trascinamento magnetico	Materiale		
SLIM	3D1 130x35 (0,4/1,8)	3C1 3x10	3P1 150x10 (1,5)			_ = carta P = Meraklon T = PTFE	_ = DOE D63 M = DOE chiusura con molle P = DOE D 70 A = SOE 222 B = SOE 226	MPP051/2 MPP101 EVT7	_ = PP F = PVDF	A = Valvola Aspirazione M = Valvola mandata C = gruppo valvole trattamento carbone G = manometro V = valvola tra pompa e filtro W = sistema carrellabile I = interruttore di prossimità per anello paraspruzzi	
	3D2 130x66 (0,8/3,6)	3C2 3x20	3P2 150x20 (3,0)	3O2 (5)	3A2 (5)						MPP051/2 - MPP 101 EVT7 - EVT12 EVT15 - EVT20 MPP201 - MPP251
		3C3 3x30	3P3 150x30 (3,0)								
MIX			3C2					EVT12	F	GR	

* m² = superficie filtri / l = volume sedimento

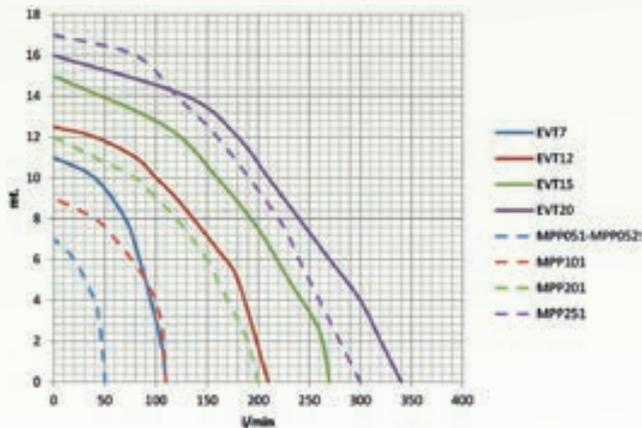


SERIE	CAMERA	POMPA	DIMENSIONE D'INGOMBRO											
			Ø in	Ø out	A	B	C	D	E	F	G	H	I	
SLIM	3D1 3C1 3P1	MPP051/2	32	32	295	380	390	950	990	115	292	125	778	
		MPP101								122				
		EVT7												
	3D2 3C2 3P2 3O2 3A2	MPP051/2	32	32	295	380	390	1205	1245	115	292	125	1033	
		MPP101								122				
		EVT7												
		MPP201												
	EVT12	EVT15	EVT20	50	40	295	460	420	1235	1275	150	322	125	1063
	3C3 3P3	MPP201	50	40	295	460	420	1485	1525	150	322	125	1313	
		EVT12												
		EVT15												
EVT20		63												
MPP251														

50 Hz

Rpm	MPP051/2	EVT7 MPP101	EVT12 MPP201	EVT15	EVT20 MPP251
2800					
KW	0,12	0,25	0,55	0,7	1,1
A* 230/400V	0,7/0,44	1,2/0,7	2,3/1,25	3,13/1,7	4,9/2,5

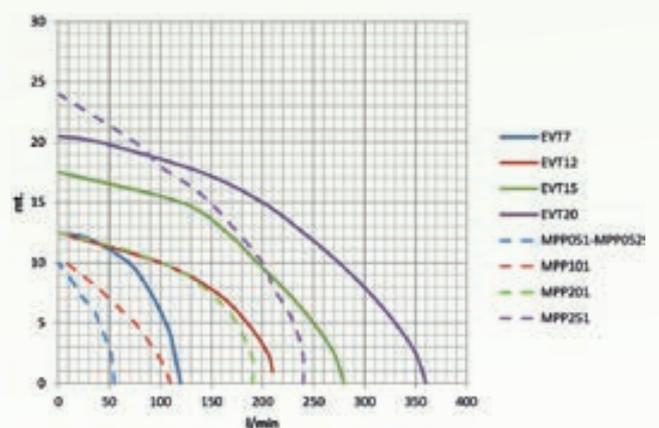
* i valori possono cambiare a seconda del tipo di motore utilizzato



60 Hz

Rpm	MPP051/2	EVT7 MPP101	EVT12 MPP201	EVT15	EVT20 MPP251
3450					
KW	0,12	0,25	0,55	0,7	1,1
A* 220/380V	0,7/0,44	2,6/1,5	2,9/1,7	3,9/2,2	6,0/3,5

* i valori possono cambiare a seconda del tipo di motore utilizzato



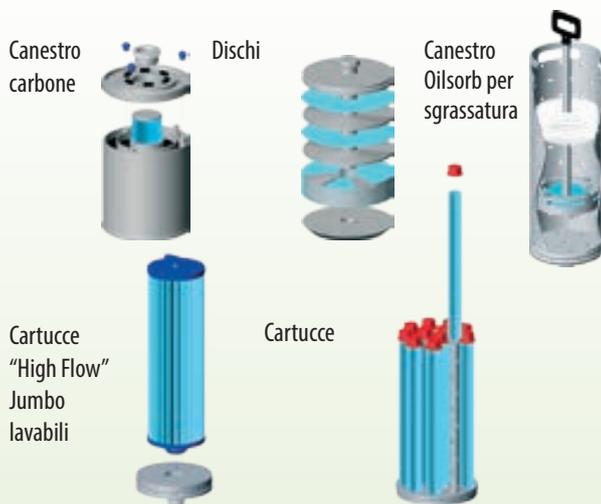
VANTAGGI

- Versatilità: 5 tipologie di filtrazione in una camera filtrante
- Ridotte dimensioni d'ingombro
- Pompe con possibilità di marcia a secco
- Camera filtro monoblocco
- Risparmio energetico
- Manutenzione agevole e rapida

CARATTERISTICHE

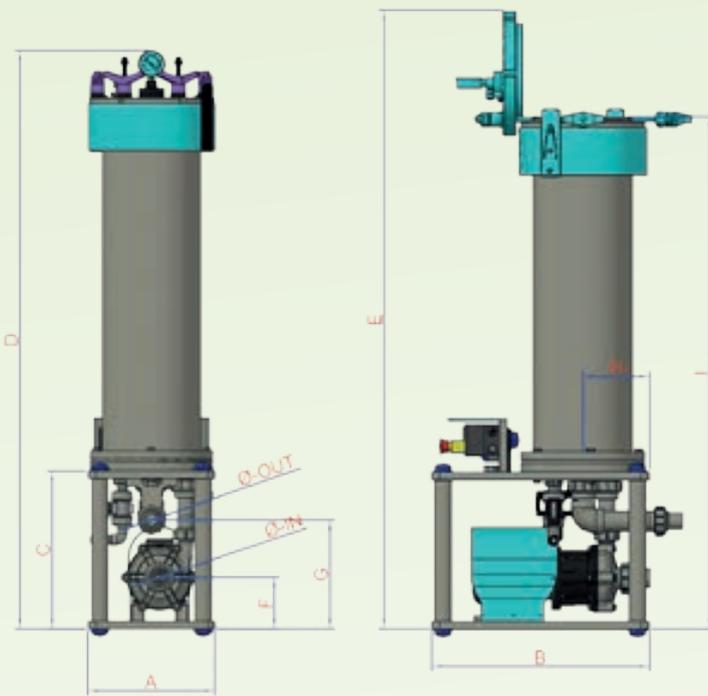
- Tmax esercizio 70° C (con tubazione rigida)
- Pompa magnetica e tenuta meccanica

TIPOLOGIE DI FILTRAZIONI



Serie	Camera filtrante					Elemento filtrante		Pompa		Materiale	OPTIONAL
	Dischi Dxn° (m²/l)*	Cartucce n° x l"	JUMBO DxH" (m²)	Oilsorb (l)	Carbone (l)	Dischi	Cartucce	Trascinamento magnetico			
SLIM	7D1 200x35 (1/4,3)	7C1 7x10	7P1 200x10 (2,5)					MPP051/2 MPP101 EVT7 MPP051/2 - MPP 101 EVT7 - EVT12 - EVT15 - EVT20 EVT25 - EVT30 - MPP201 - MPP251 MPP302 EVT12 - EVT15 - EVT20- EVT25 - EVT30 MPP201 - MPP251 - MPP302	_=PP F= PVDF	A = Valvola Aspirazione M = Valvola mandata C = gruppo valvole trattamento carbone G = manometro V = valvola tra pompa e filtro W = sistema carrellabile I = interruttore di prossimità per anello paraspruzzi	
	7D2 200x66 (2/8,6)	7C2 7x20	7P2 200x20 (5)	7O2 (15)	7A2 (15)	_ = carta P= Meraklon T= PTFE	_ = DOE D63 M= DOE chiusura con molle P=DOE D 70 A=SOE 222 B=SOE 226				
		7C3 7x30									
MIX		3C2						EVT12	F	GR	

* m² = superficie filtri / l = volume sedimento

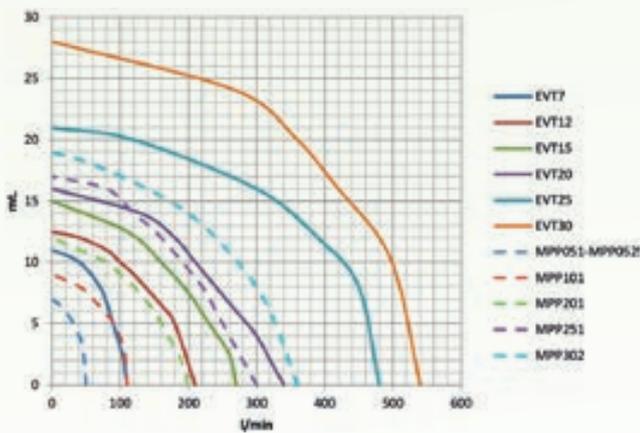


SERIE	CAMERA	POMPA	DIMENSIONE D'INGOMBRO																	
			Ø in	Ø out	A	B	C	D	E	F	G	H	I							
SLIM	7D1 7C1 7P1	MPP051/2	32	32	320	450	390	955	1055	115	265	167,5	783							
		MPP101 - EVT7								122										
	7D2 7C2 7P2 7A2	MPP051/2	32	32	320	450	390	1210	1310	115	292	167,5	1038							
		MPP101 - EVT7								122										
		MPP201 EVT12 - EVT15								50				40	420	1240	1340	150	295	1068
		EVT20								50				50						
	MPP251	63	50	320	550	460	1280	1380	167	335	1108									
	MPP302 EVT25 - EVT30					63	50	460	1280	1380	167	335	1108							
	7C3 7P3	MPP201 EVT12 - EVT15	50	40	320	550	420	1490	1590	150	295	167,5	1318							
		EVT20	50	50																
		MPP251	63	50										420	1530	1630	167	335	1358	
		MPP302 EVT25 - EVT30																		63

50 Hz

Rpm	MPP051/2	EVT7 MPP101	EVT12 MPP201	EVT15	EVT20 MPP251	EVT25 MPP302	EVT30
2800							
KW	0,12	0,25	0,55	0,7	1,1	1,5	2,2
A*							
230V	0,7/0,44	1,2/0,7	2,3/1,25	3,13/1,7	4,9/2,5	6,5/3,8	8,7/5,0
400V							

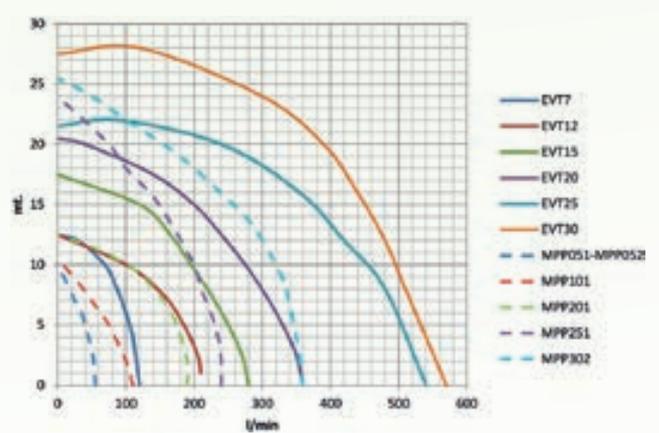
* i valori possono cambiare a seconda del tipo di motore utilizzato



60 Hz

Rpm	MPP051/2	EVT7 MPP101	EVT12 MPP201	EVT15	EVT20 MPP251	EVT25 MPP302	EVT30
3450							
KW	0,12	0,25	0,55	0,7	1,1	1,5	2,2
A*							
220V	0,7/0,44	2,6/1,5	2,9/1,7	3,9/2,2	6,0/3,5	8,0/4,6	10,2/6,0
380V							

* i valori possono cambiare a seconda del tipo di motore utilizzato

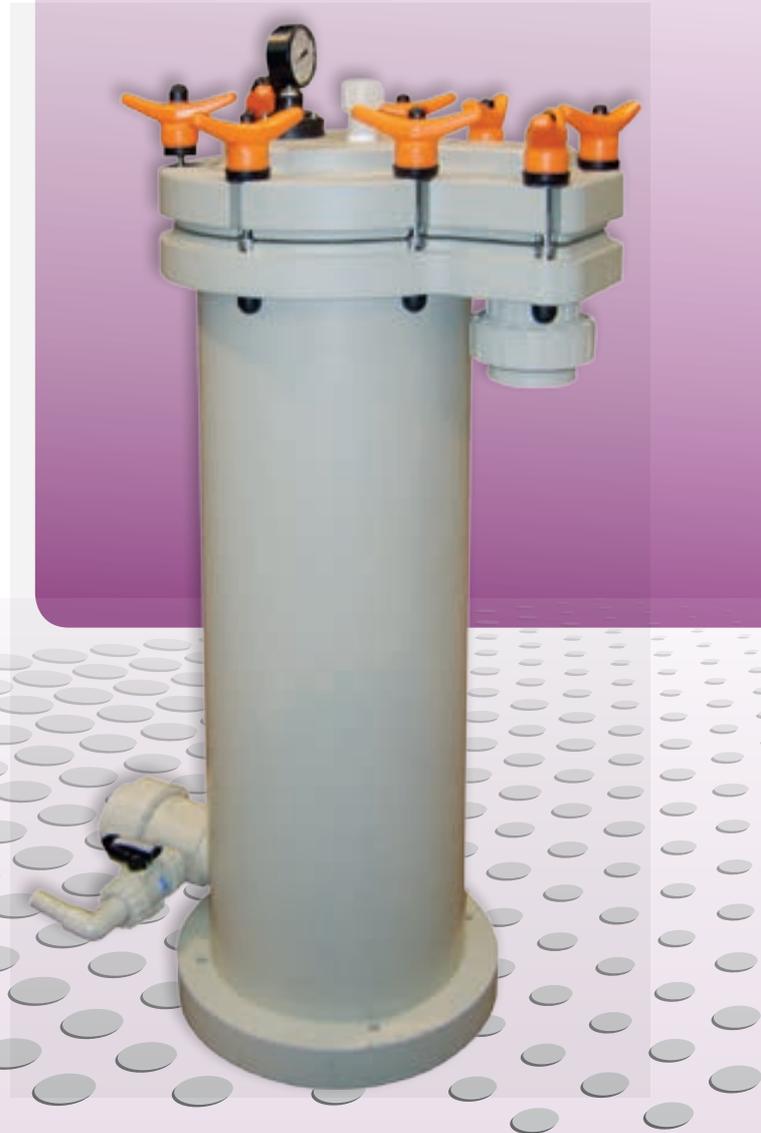
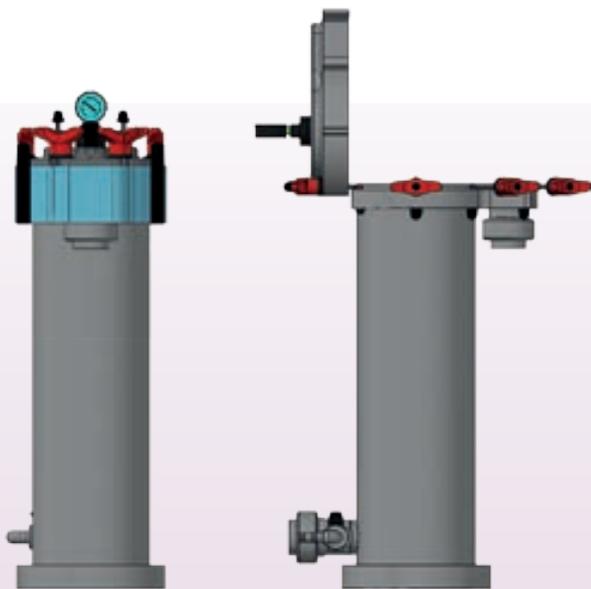


ADVANTAGES

- Rugged construction
- Inert at chemicals
- Interchangeability bag filters and cartridges High Flow WH
- 3 years warranty

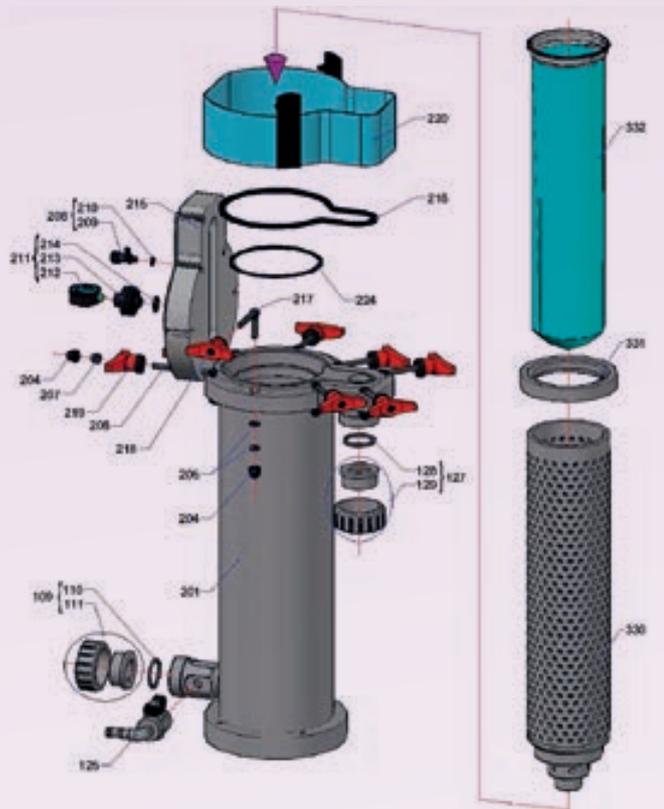
FEATURES

- PP solid monoblocc body
- PP and PVDF versions
- Swing bolts closure system with swing bolts
- Til lid
- Lid inlet
- Union connection
- SIZE 1-2-4 bags availability
- Tmax exercise PP 85°C-PVDF 100°C
- Pmax exercise: 6 Bar @ 20°C

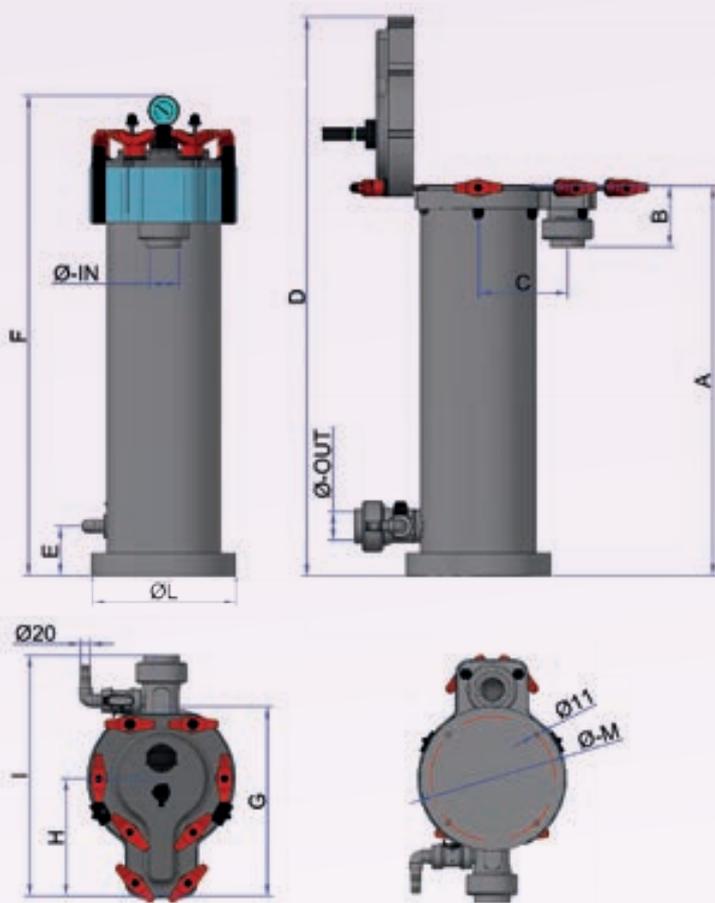


TOP VERSION

SERIES	MATERIAL	INLET	SIZE	IN/OUT Ø mm	ATTACKS TYPE	OPTIONAL
CFB	_ = PP V = PVDF	T=TOP	1040 = SIZE 4	25	B= SOCKET UNIONS	G= Pressure gauge R= Splashproof lid Ring I= lid Interlock safety sensor
				32		
			1840H = SIZE 1	40		
				50		
1880H = SIZE 2	63					
	CFB	T	1880H	63	B	GR



DESCRIPTION			
109	Discharge assembly	211	Pressure gauge assembly
110	O-Ring	212	Pressure gauge
111	Discharge	213	Guard
125	Drain valve	214	O-Ring
127	Inlet filter-housing assembly	215	Lid
128	O-Ring	216	Lid gasket
129	Connecting fitting	217	Short swing bolts
201	Filter body	218	Knob close two lobes
204	PP nut cap	219	Knob open two lobes
205	Nut & washer	220	Splash proof lid ring
206	Long swing bolts	224	O-ring cantering ring
207	Blind nut	330	Basket filter bag
208	Vent valve assembly	331	Centering ring filter bag
209	Vent valve	332	Filter bag
210	O-Ring		



BAG FILTER HOUSING			
Type	1040	1840 H	1880 H
A	415	530	860
B	83	136	136
C	115	195	195
D	630	917	1231
E	70	110	110
F	570	730	1060
G	262	415	415
H	152	257	257
I	360	530	530
Ø L	220	315	315
Ø M	186	271	271
Ø IN	25-32	50-63	50-63
Ø OUT	25-32	50-63	50-63

PVDF version: dimension could change. Require drawing at our technical office

ADVANTAGES

- Rugged construction
- Inert at chemicals
- Interchangeability bag filters and cartridges High Flow WH
- 3 years warranty

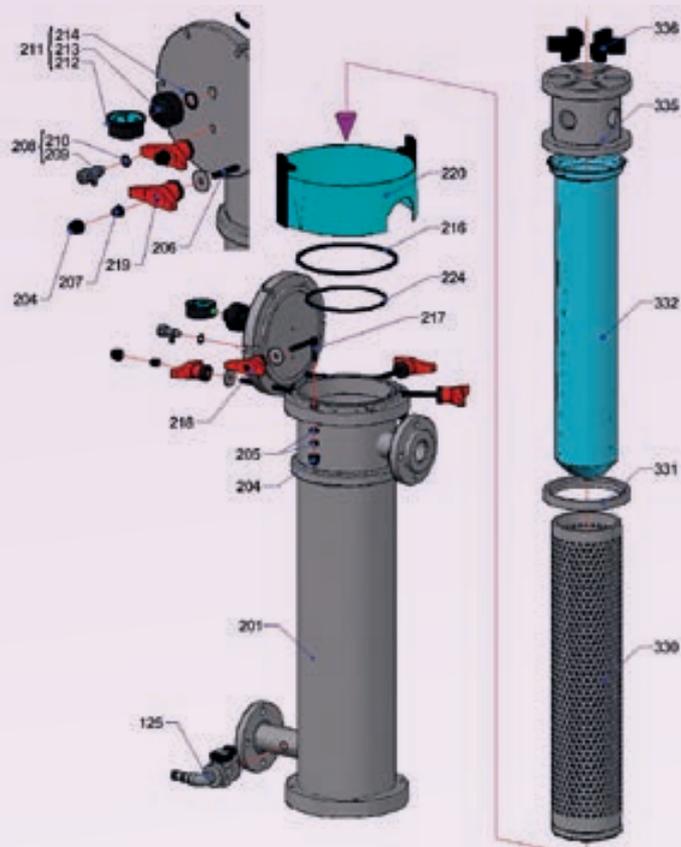
FEATURES

- PP solid monoblocc body
- PP and PVDF versions
- Swing bolts closure system with swing bolts
- Til lid
- Filter body inlet
- Union or flanged connections
- SIZE 1-2-4 bags availability
- Tmax exercise PP 85°C-PVDF 100°C
- Pmax exercise: 6 Bar @ 20°C



SIDE VERSION

SERIES	MATERIAL	INLET	SIZE	IN/OUT Ø mm	ATTACKS TYPE	OPTIONAL
CFB	_ = PP V = PVDF	S=SIDE	1840 = SIZE 1	50	B= SOCKET UNIONS F= FLANGED	G= Pressure gauge R= Splashproof lid Ring I= lid Interlock safety sensor
				63		
			1880 = SIZE 2	75		
				90		
CFB	V	S	1880	75	F	GR

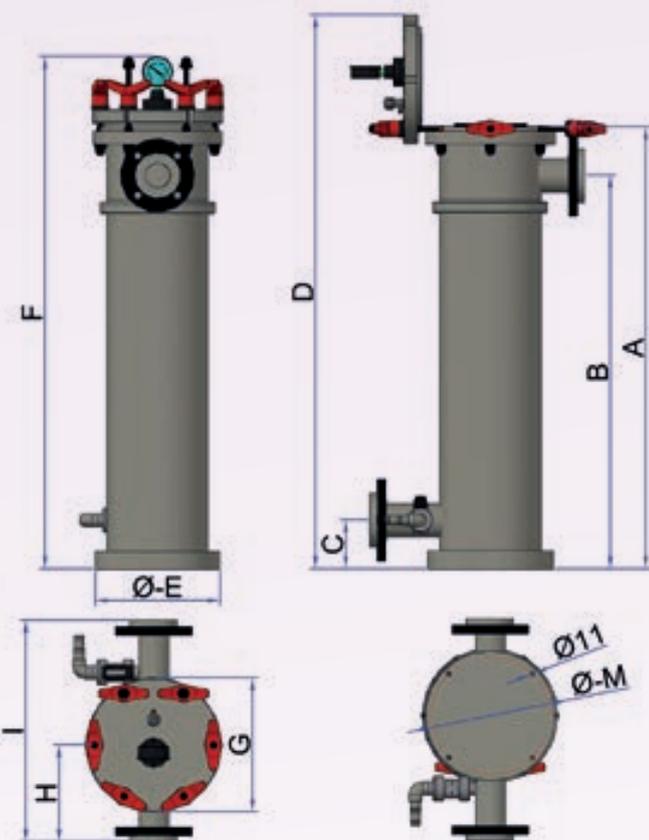


DESCRIPTION

125	Drain valve	215	Lid
201	Filter body	216	Lid gasket
204	PP nut cap	217	Short swing bolts
205	Nut & washer	218	Knob close two lobes
206	Long swing bolts	219	Knob open two lobes
207	Blind nut	220	Splash proof lid ring
208	Vent valve assembly	224	O-ring cantering ring
209	Vent valve	330	Basket filter bag
210	O-Ring	331	Centering ring filter bag
211	Pressure gauge assembly	332	Filter bag
212	Pressure gauge	335	Press bag holder
213	Guard	336	Spring press bag
214	O-Ring		

PP FILTER HOUSING

Type	1840			1880		
	63F	75F	90F	63F	75F	90F
A	700	700	700	1030	1030	1030
B	585	585	585	915	915	915
C	110	110	125	110	110	125
D	970	970	970	1300	1300	1300
Ø E	315	315	315	315	315	315
F	885	885	885	1215	1215	1215
G	315	315	315	315	315	315
H	210	210	225	210	210	225
I	480	480	495	480	480	495
Ø M	271	271	271	271	271	271



PVDF FILTER HOUSING

Type	1840			1880		
	63F	75F	90F	63F	75F	90F
A	665	665	665	995	995	995
B	555	555	555	995	995	995
C	110	110	125	110	110	125
D	925	925	925	1255	1255	1255
Ø E	280	280	280	280	280	280
F	830	830	830	1160	1160	1160
G	290	290	290	290	290	290
H	210	210	210	210	210	210
I	480	480	480	480	480	480
Ø M	255	255	255	255	255	255



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WATER





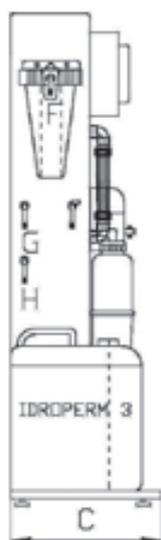
IDRO RO 60-130

REVERSE OSMOSIS DEMINERALIZER

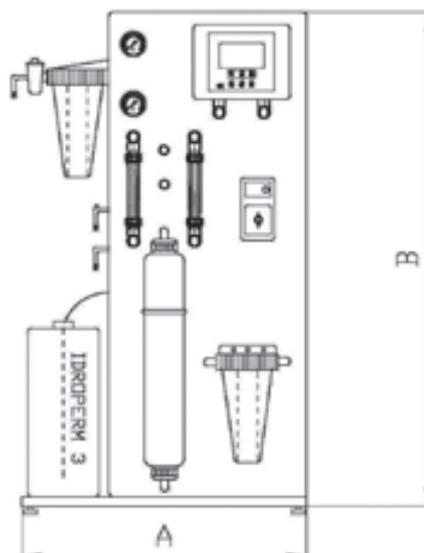
MAIN COMPONENTS	
Skid	Elegant fairing in glazed stainless steel (aisi 304) with strong base in stainless steel (aisi 304) tubular.
Pre-filtration	Cartridge with washable net, filtration 60 micron
De-chlorination	Activated charcoal cartridge containing approximately lt 3,5 of activated charcoal
Micrometrical filter	Filtering cartridge 5 micron
Antiscalant	Electronic proportional metering pump with membrane and tank for the preparation of antiscalant dosage solution.
Inlet	Solenoid electro-valve and safety switch
Pressurization	Volumetric pump with mono-phase motor 0,45 kw with thermal safety
Membranes	Wound Membranes in polyamide Diameter 2,5", length 40", minimum saline rejection 99,5%
Pressure vessels	In stainless steel
Pressure indicators	n. 2 pressure gauge in glycerine
Delivery indicators	n. 2 flowmeter for the delivery control: permeate outlet, concentrated discharge
Conductibility control	Digital electronic conductivity meter with adjustable alarm with functioning shut off for high conductivity (disconnectable)
Functioning control	<p>Electric panel in elegant case in ABS containing control switchboard with digital conductivity meter. LCD panel back-illuminated, visual display unit of appropriate and specific messages with automatic stop in case of :</p> <ul style="list-style-type: none"> - High level storage tank treated water - Low pressure inlet - High conductivity (disconnectable) - Motor overheating - Low antiscalant level - External inhibition (there's a specific inlet contact) - Eventual automatic filter during washing <p>Cumulative outlet alarm.</p> <p>Intuitive menu that allows to select anytime n° 6 available languages (Italian – English – French – German – Spanish – Portuguese/Brazilian), the set-point conductivity and desact/activation block for high conductivity</p>



Left side view



Front view



Performances and technical characteristics*

Model	Unit	IR 60 St	IR 130 St
Demineralized water delivery	lt/h	60	130
Water discharge delivery	lt/h	20 / 40	45 / 85
Water feeding delivery	lt/h	80 / 100	165 / 215
Recovery	%	75 / 60	75 / 60
Membrane's quantity	n°	1	2
Power installed pump	kw	0,5	0,5

* performances reported with feeding water with salinity 1500 ppm and temperature 15°C

Dimensional Parameter

	Rif. draft	Unit	IR 60 St	IR 130 St
Width	A	mm	720	720
Height	B	mm	1250	1250
Depth	C	mm	380	380
Inlet diameter	F	mm/inches	17 o 3/8"	17 o 3/8"
Permeat outlet diameter	G	mm/inches	17 o 3/8"	17 o 3/8"
Discharge outlet diameter	H	mm/inches	17 o 3/8"	17 o 3/8"
Electric feeding	230 Vac - 50 Hz (available different tensions and various frequencies)			
Feeding compressed air	No			

ECO RO

REVERSE OSMOSIS DEMINERALIZER

ECONOMICO E AFFIDABILE

I demineralizzatori della serie ECO RO sono concepiti per produrre acqua demineralizzata con bassi costi di investimento e di esercizio. Il know how tecnico acquisito su grandi impianti operanti nelle più diverse condizioni e su medi impianti standard costruiti per svariate applicazioni (dal lavaggio industriale all'impiego ospedaliero) ha permesso la creazione di un impianto per basse portate estremamente semplice ed economico, senza per questo venir meno agli alti livelli di affidabilità.

DOTAZIONE COMPLETA

Gli apparati della famiglia eco ro sono realizzati su di una robusta ed elegante struttura in acciaio inox e prevedono:

- Pretrattamento completo
- Membrane osmosi inversa di marca primaria
- Indicatori di pressione
- Centralina elettronica con contatore, livelli elettrici, pressostati e sicurezze.

CONVENIENT AND RELIABLE

The ECO RO range is designed for the production of demineralized water with low investment and operating costs.

Idrotecnica has applied its technical know how from the production of large and medium sized systems for a wide range of applications (from industrial washing to hospitals) to create an extremely simple and economical, reliable product designed for low flow rates.

ALL THE KEY FEATURES

The ECO RO models are realized on a solid and elegant stainless steel structure. They provide:

- Complete pre-treatment
- Top-brand reverse osmosis membranes
- Pressure indicators
- An electronic control unit with counter, electrical, levels, pressure switches and security features.

ECONOMIQUE ET FIABLE

Les déminéralisateurs série ECO RO sont étudiés pour la production d'eau déminéralisée avec basses coûts d'investissement et d'exploitation. Le savoir-faire technique, obtenu avec grandes équipements opérants dans situations les plus différentes et sur moyens appareils construites pour plusieurs champs d'application, a permis la création d'un appareil pour basses portées vraiment simple et économique, sans renoncer à une haute fiabilité.

EQUIPEMENT COMPLÈTE

Les appareils ECO RO sont réalisés sur une robuste et élégante structure en acier inoxydable et constitués de::

- Complet prétraitement
- Membranes à osmose inverse de grande marque
- Indicateurs de pression
- Module électronique avec ordinateur, niveaux électriques, pressostats et sécurités.



Modello / Model	Portata acqua trattata Delivery of treated water Débit eau traitée		Potenza installata Installed power Puissance installée	Dimensioni Dimensions Dimensions
	lt / h	mc / g	kw	cm
ECO RO 30 St	30	0,25	48 x 36 x 74	173 x 87 x 185
ECO RO 60 St	60	0,45	55 x 38 x 125	200 x 90 x 165
ECO RO 40 LE	40	0,25	48 x 36 x 74	240 x 100 x 165
ECO RO 80 LE	80	0,55	55 x 38 x 125	240 x 100 x 165

Prestazioni riferite ad acqua alimento con salinità 500 ppm temperatura 15° C.
Reiezione salina membrane: ECO RO St : 99,4 ± 99,5% - ECO RO LE : 98,0 ± 99,0%

Performances refer to the treatment of primary water with salinity 1500 ppm at temperature 15° C.
Salt rejection rate: ECO RO St : 99,4 ± 99,5% - ECO RO LE : 98,0 ± 99,0%

Performances référées à eau primaire avec salinité 500 ppm température 15° C.
Rejet saline mebranes: ECO RO St : 99,4 ± 99,5% - ECO RO LE : 98,0 ± 99,0%

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M SERIES

REVERSE OSMOSIS DEMINERALIZER



IL PRODOTTO

I demineralizzatori della serie M sono ideali per ottenere media-bassa quantità d'acqua demineralizzata di alta qualità a prezzi contenuti.

Le caratteristiche principali si possono riassumere in:

- Bassi costi di investimento
- Facilità di utilizzo
- Dimensioni contenute.

COSTRUZIONE E VERSIONI

Sono composti da una colonna in Polipropilene rinforzato, resistente alla pressione di 10 bar (per i modelli M4 1.5 bar) che contengono resine cationiche/anioniche selezionate con elevata capacità di scambio e che sono correttamente trattate e mescolate per ottenere acqua di elevata purezza.

Il conduttivimetro digitale legge in continuo la conducibilità dell'acqua prodotta, segnalando quindi l'esaurimento delle resine.

MANUTENZIONE

La resina può essere sostituita in due modi:

- sostituire la carica di resina fornita in sacchi
- sostituire la colonna con una di ricambio ed inviarla al nostro laboratorio per la rigenerazione.

CONVENIENT AND RELIABLE

M series demineralizers are ideal for the production of a mediumlow quantity of high-quality demineralized water at reasonable cost.

The principle characteristics are:

- Low investment cost
- Simple operation
- Compact size.

CONSTRUCTION AND VERSIONS

These demineralizers comprise a reinforced pressure-resistant (to 10 bar; 1.5 bar for the M4) polypropylene column containing cationic-anionic resins selected for their high exchange capacity and which are treated and combined in order to achieve high water purity.

The digital conductivity meter continuously measures the conductivity of the produced water, providing advice about the depletion of the resins.

MAINTENANCE

Recharging of the resins can be done in two ways:

- replacement of the resins (supplied in bags)
- replacement of the column which is sent to our laboratory for regeneration.

DAS PRODUKT

Die Entmineralisierungsanlagen der Baureihe M sind ideal zum Erzeugen einer kleinen bis mittelgroßen Menge entmineralisierten Wassers hoher Qualität zu einem geringen Preis.

Die wichtigsten Eigenschaften sind:

- Niedrige Investitionskosten
- Benutzerfreundlichkeit
- Geringe Abmessungen.

BAUWEISE UND VERSIONEN

Sie bestehen aus einer Säule aus verstärktem Polypropylen mit einer Druckfestigkeit von 10 bar (für die Modelle M4 1.5 bar) die ausgesuchte Kationen- bzw. Anionenaustauschharze mit hoher Austauschleistung enthalten, die eigens zum Erzielen von Reinstwasser behandelt und gemischt wurden. Der digitale Leitfähigkeitsmesser liest kontinuierlich die Leitfähigkeit des erzeugten Wassers ab und signalisiert so die Erschöpfung der Austauschharze.

WARTUNG

Das Austauschharz kann auf zweierlei Art ersetzt werden:

- Ersetzen der in Beuteln gelieferten Harzfüllung
- Ersetzen der Säule durch eine Reservesäule und Einsender der alten bei uns zum Regenerieren.

Model	Delivery lt / h	Cyclic yield / lt.				Dimensions	
		10° F	20° F	30° F	40° F	Ø	h
M4	100	1080	540	360	270	110	720
M9	180	1800	900	600	450	180	640
M12	240	2300	1150	800	580	180	770
M20	400	3900	1970	1300	980	180	1100
M30	600	5900	3000	2000	1500	203	1330
M50	1000	10200	5100	3400	2550	255	1330



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ACCESSORIES
and CONSUMABLES



PREFILTRATION CARTRIDGE WITH HIGH RETENTION EFFICIENCY PLEATED POLYPROPYLENE

The quality requirements demanded by industry today impose more and more often the use of polypropylene filters absolutely reliable in terms of retention.

The CPF-HE cartridge represents a further development in the construction technology of filter cartridges in layers of polypropylene. Extremely reliable in terms of efficiency of filtration and degree of retention is the ideal solution for critical filtrations.

The decreasing density technology combined with a type of "high density" membrane allows to obtain a cartridge with absolute retention power, safe and reliable in cases in which high quality standards are required. The assembly by heat sealing without the use of resins and adhesives guarantees the absence of extractable substances making compact and solid the entire construction.

TECHNICAL FEATURES

- very high filtering surface and large accumulation capacity of the turbid
- controlled porosity and uniformity of filtration over the entire surface
- absence of migration of fibers from the filter media
- no absorption of color and odor
- regeneration also in countercurrent
- can be sterilized in an autoclave or with flowing steam at 120 °C
- use of materials in compliance with FDA CFR Title 21. compliant with IIa USP class VI, Plastic Biosafety
- excellent chemical compatibility.

The reliability of a polypropylene element, the safety and precision of an absolute cartridge.

Particularly suitable for the GALVANIC SECTOR and GOLDSMITH (the cartridges are easily burnable for the recovery of the retained precious metal).

The reliability of a polypropylene element, the safety and precision of an absolute cartridge.

PLEATED POLYPROPYLENE



DEGREES OF FILTRATION	0,6 - 1,0 - 2,5 - 5,0 - 10,0 - 20,0 - 40,0 µm
Filtration efficiency	100%
	ISO4572 acftd ac fine test dust <20 µm / AC COARSE > 20 µm
MATERIALS	
Filtrating section	pure polypropylene (free from resins or binding agents)
Inner sleeve	polypropylene
Outer cage	polypropylene
Attack and tip	polypropylene
Gaskets	silicone (standard) Viton®, EPDM, Buna N, PTFE
WELDING	Ultrasound / Thermofusion
DIMENSIONS	
Lenght	254 mm (10"), 508 mm (20"), 762 mm (30"), 1016 mm (40")
Ø Outer diameter	69 mm
Ø Inner diameter	26 mm
TRACKABILITY'	Each filter element is identified from a lot number for a complete one trackability
OPERATING CONDITIONS	
Max operating T° in continuous	80°C @ 2,5 bar
Max working pressure (Δp)	5 bar @ 60°C
Max operating Δp recommended	2,5 bar
Max Δp in countercurrent	1,5 bar @ 40°C
RECOMMENDED FLOW (H2O @ 20° C / 10")	
Porosity	0,6 µm - 1100 l/h
	1,0 µm - 1300 l/h
	2,5 µm - 1600 l/h
	5,0 µm - 2000 l/h
	10,0 µm - 2400 l/h
	20,0 µm - 2800 l/h
	40,0 µm - 3200 l/h
SANITIZATION	
with hot water	30 min. @ 80°C
with steam	20 min. @ 120°C
chemical	with the most common chemical agents



Cod.	Dimensions (inches)	Degree of filtration (absolute m)	Filter (material)	Core (material)	Type	Gasket
CPF	10 20 30	0,20 -> 002	PP -> P	PP -> P	DOE* -> 1 SOE 222* -> 2 SOE 226* -> 3	Silicone -> S FPM -> V PTFE -> T EPDM -> E
		0,45 -> 045				
		0,60 -> 006				
		1,00 -> 010				
		2,50 -> 025				
		5,00 -> 050				
		10,00 -> 100				

Coding example:

CPF	20	050	P	P	2	T
------------	-----------	------------	----------	----------	----------	----------

*DOE = Double Open End

*SOE 222 = Single Open End - Oring 222

*SOE 226 = Single Open End - Oring 226



CPP

CPP are produced wounding a yarn on an inner core made of PP or Stainless Steel. They represent the best quality price ratio on the market place for surfaces treatment applications, waste water treatments, industrial filtrations ...

CPP are manufactured of specially selected raw materials. Available in Polypropylene yarn, Cotton, Polyester, Nylon and Microglass fiber.

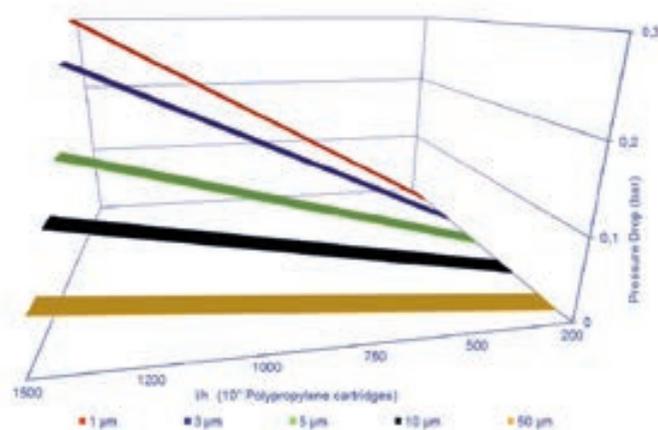
We can provide string wound cartridges with a range of nominal porosity from 1 micron up to 200 micron and in lengths from 4" to 40".

FEATURES

- Raw materials of High Quality
- High Flow/Low Pressure Drop Media
- Cost saving from long service filter life
- Wide Chemical Compatibility
- Various cartridge sealing options
- Available in standard diameter or BIG
- Inner core PP or SS3 04 3 1 6
- Removal ratings from 1 to 200 micron
- Single use filter

APPLICATIONS

- Waste Water Treatment
- Chemical Filtration
- Oils Filtration
- Plating Filtration
- Industrial Filtration
- Petrochemicals Filtration



Wound depth cartridge	Lenght	Filtration rate (micron)	Filter element	Core	Attack*
CPP	4"	01 = 1	P = PP V = Fiberglass Y = Polyester C = Cotton	P = PP I = SS F = PVDF	1 = DO2 2 = SOE 222 3 = SOE 226
	10"	05 = 5			
	10"	10 = 10			
	20"	20 = 20			
	30"	50 = 50			
CPP	40"	100 = 100			
	10"	200 = 200			
CPP	10"	10	P	P	1

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* DOE = Double Open End

* SOE222 = Single Open End - Oring 222

* SOE226 = Single Open End - Oring 226



CMB

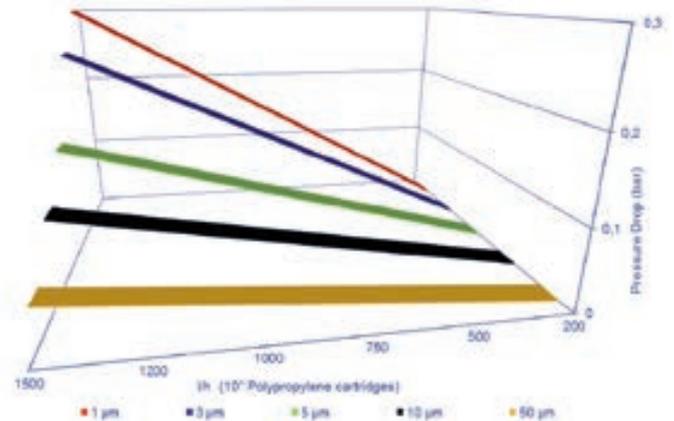
The Melt Blown Filter Cartridges series CMB are manufactured with 100% of **Polypropylene** and are available with or without PP inner core. These kind of filter elements are produced in order to increase the yield of filtration. We can provide melt blown cartridges in length from 9”3/4 to 40” and with porosity from 1 up to 100 micron. CMB cartridges are designed to have a continuously gradient pore structure increases the capacity of dust. We have two series of melt blown Cartridges, the cartridges with absolute retention and the cartridges with nominal retention.

FEATURES

- Raw Materials of High Quality
- High Flow/Low Pressure Drop Media
- Free of binders and adhesives 100% CMB for wide chemical compatibility.
- Various Cartridges sealing options
- Available in standard diameter or BIG
- With or without CMB inner core
- Available in absolute retention or nominal Single-use Filter

APPLICATIONS

- Waste Water Treatment
- Chemical Filtration
- Oils Filtration
- Plating Filtration
- Industrial Filtration
- Petrochemicals Filtration



Wound depth cartridge	Lenght	Filtration rate (micron)	Filter element	Core	Attack*
CMB	4"	01 = 1	P = PP	P = PP O = No core	1 = DO2 2 = SOE 222 3 = SOE 226
	10"	05 = 5			
	20"	10 = 10			
	30"	20 = 20			
	40"	50 = 50 100 = 100			
CMB	10"	10	P	P	1

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* DOE = Double Open End
* SOE222 = Single Open End - Oring 222
* SOE226 = Single Open End - Oring 226

APPLICATIONS

Water Treatment
 Chemical Filtration
 Farma Filtration
 Plating Filtration
 Plating Filtration
 Food & Beverages

CCA-I

Porous sinterized PP outer shell used as 20µm pre-filter hous-
 es, granular carbon vegetal origin and 3µm membrane on PP
 core – PP heads

CCA-S

Porous sinterized PE outer shell used as 50µm pre-filter hous-
 es, granular carbon vegetal origin and 3µm membrane on PP
 core – EPDM heads



Type	H	GR	Ø mm	l/min	Tmax °C
CCA-I	4"	50	70	3	75
	10"	250		7,5	
	20"	500		15	
Type	H	GR	Ø mm	l/min	Tmax °C
CCA-S	10"	200	70	7,5	65
	20"	400		15	
	30"	600		22,5	

APPLICATIONS

Water Treatment
 Chemical Filtration
 Farma Filtration
 Plating Filtration
 Plating Filtration
 Food & Beverages

CCA-V

Porous sinterized PP outer shell, granular carbon vegetal origin and 3µm membrane on PP core – PU heads.



CCA-V

CCA-B

Porous sinterized PP outer shell, granular carbon vegetal origin and 5µm membrane on PP core – PP heads



CCA-B

Type	H	GR	Ø mm	l/min	Tmax °C
CCA-V	10"	130	65	6	55
	20"	200		12	
Type	H	GR	Ø mm	l/min	Tmax °C
CCA-B	10	110	70	10	55
	20	220		20	

FEATURES

- FDA compliant
- Free from crater forming substances (i.e. silicone)
- Available as single and multi-layered bags with graded pore depth structure
- 1µm - 200 µm nominal retention rates
- PP or metal ring as bag sealing
- Excellent chemical compatibility
- Thermal surface treatment effectively minimizes fibre migration
- Recommended change out pressure differential 0.1 - 0.16 MPa (1.0 - 1.6 bar)

BENEFITS

- **Easy Installation** - no tool required
- **Double Sealing** - plastic collars designed to provide additional safety against bypassed
- **Stable Material Composite** - both stable and flexible filter bags for better alignment to the restrainer basket
- **Available Sizes** - all standard but also customized sizes for an optimal process adaptation
- **High Dirt Capacity** - to ensure a long lifetime
- **Low Disposal Cost** - to further improve economics



APPLICATIONS

- Automotive Industry
- Water Treatment
- Pharmaceuticals
- Food and Beverage
- Chemical Industry
- Paints and Varnishes
- Many Others

Technical Data

Sizes	Filter Material	Lenght (mm)	Ø (mm)	Filter Area (m ²)	Volume (l)
size 1	PP, PE	420	180	0,25	8,0
size 2	PP, PE	820	180	0,50	17,5
size 3	PP, PE	230	100	0,09	1,5
size 4	PP, PE	380	100	0,15	2,5
size 5	PP, PE	510	150	0,25	8,0

Model	Retention rate nominal	Filter Material	Size	Bag Sealing Colair/Ring
SFL	1 = 001 5 = 005 10 = 010 25 = 025 50 = 050 100 = 100 200 = 200	Felt PP = P Nylon = Y PP Monofilament = M PTFE = T	1 2 3 4 5	PP = P Coated steel = X
SFL	010	M	2	P

CARTE FILTRO IN CELLULOSA

Carte filtro realizzate con cellulose nobili con aggiunta di linters di cotone idonee alle richieste di settori industriali quali galvanico, chimico e farmaceutico.

I vari prodotti rispondono inoltre ai requisiti d'idoneità al contatto con alimenti.

Disponibili nei formati di cui sotto e a richiesta con quantitativi minimi.

Formati Standard Standard sizes	Tipo	Q.tà per conf.	Codice
De/Di - OD/ID mm	Type	Q.ty each pack	Code
130/32	IF 250	100	DFC130X250
	Carbon	100	DFC130
150/32	IF350	100	DFC150X350
	Carbon	100	DFC150
195/60	IFC90	200	DFC195X90C
	IF250	100	DFC195X250
	IF350	100	DFC195X350
	Carbon	100	DFC195
205/32	IFC90	200	DFC205X90C
	IF250	100	DFC205X250
	IF350	100	DFC205X350
	Carbon	100	DFC205
256/50	IFC90	200	DFC256X90C
	IF250	100	DFC256X250
	IF350	100	DFC256X350
	Carbon	100	DFC256
260/40	IFC90	200	DFC260X90C
	IF250	100	DFC260X250
	IF350	100	DFC260X350
	Carbon	100	DFC260
295/50	IFC90	200	DFC295X90C
	IF250	100	DFC295X250
	IF350	100	DFC295X350
	Carbon	100	DFC295
350/60	IFC90	200	DFC350X90C
	IF350	100	DFC350X350
	Carbon	100	DFC350
460/100	IFC90	200	DFC460X90C
	IF350	100	DFC460X350
	Carbon	100	DFC460
470/60	IFC90	200	DFC470X90C
	IF350	100	DFC470X350
	Carbon	100	DFC470

Altri formati disponibili su richiesta - Other sizes available on demand

FILTER PAPERS

Filter papers are made exclusively of pure cellulose with high alpha content.

Cotton linters are also added, particularly suitable for electroplating, chemical and pharmaceutical industries.

All range meets also requirements of food contact suitability
Always Available with sizes hereunder specified, other sizes on demand according with minimum quantity.



Caratteristiche Properties	Unità di misura Unit of Measure	IFC 90	IF 250	IF 350	Carbone
Grammatura Basis weight	g/m ²	90	250	350	170
Spessore Thickness	mm	330	0,61	0,81	0,51
Densità Apparente Apparent density	g/m ³	0,27	0,41	0,43	0,33



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PRESSURE GAUGE WITH MEMBRANE SEPARATOR

ANALOG PRESSURE GAUGE

ADVANTAGES

- Cheap
- Easy to install
- Acid and alkaline proof separator

FEATURES

- PP or PVDF
- Range: 0-1 bar or 0-6 bar
- PTFE membrane
- bar/psi

APPLICATIONS

- Reporting pressure of the filter pump
- Anti-clogging control system
- Reporting pressure of the pipes

DIGITAL PRESSURE GAUGE

ADVANTAGES

- Accurate (accuracy $\pm 1\%$)
- Acid and alkaline proof
- Big and intuitive display
- Easy programming
- Easy to install

FEATURES

- Single piece
- Absence of liquid
- PP or PVDF
- Display with green and red lights for an easy comprehension of the data
- Visual alarms
- 4-20 mA + 2 Relay Output
- psi-bar-MPa-kg/cm²

APPLICATIONS

- Installable on all our filter pumps
- Constant control of the filters
- Protection system against dry running of the pump



MAN-A



MAN-D

IDENTIFICATION					
Series	Version	Material	Range (bar)	O-ring	
MAN	A=Analog	P=PP	010	E=EPDM	
			016		
	D=Digital	F=PVDF	025		
			040		V=Viton
			060		
100					
MAN	A	P	025	V	

DIGITAL FLOW METER

ADVANTAGES

- No pipes modifications
- Easy integrable
- Easy to install
- Resistant to extreme environments
- Compact design
- Real time monitoring

FEATURES

- Detects water, oil and chemicals
- No pressure losses
- Detects trough copper and resin pipes
- Dimension from 1/4" to 2"
- Intuitive display
- Programmed modes
- Blinking visual alarms
- Flow range from 50 l/min to 500 l/min

APPLICATIONS

- Installable on all our filtration systems
- Anti clogging and anti losses control system
- Prevents from errors of valve positioning



IDENTIFICATION		
Model	Diameter	Code
FD	18-23-28	FDQAPP025000000
	28-37-44	FDQAPP040000000
	44-50-64	FDQAPP050000000

INSERTION PADDLEWHEEL FLOW METER

ADVANTAGES

- Easy to install and use
- Adaptable on the pipes
- Chemical proof
- Big display

FEATURES

- Self powered
- PP,PVC o PVDF
- Operating temperature: -18°C-100°C (depends on the material)
- Pressure range: 0 bar-14 bar (depends on the material)
- Speed range: 0,1-6 m/s
- Big display for an easy comprehension of the data

APPLICATIONS

- Installable on all our filtration systems
- Anti clogging and anti losses control system
- Prevents from errors of valve positioning



Product Range: PUMP: Magnetic Drive, Horizontal, Mechanical Seal, Vertical, Diaphragm, Drum, - FILTERING SYSTEMS – PRECIOUS METAL RECOVERY SYSTEMS – DEPURATION – FILTERS: String Wound Cartridges, Melt Blown, Filtering Disks, Bag Filters, Plated Filter Cartridges, Absolute – ACCESSORIES: Gratings, Venturi Eductor – CUSTOMIZED COMPONENTS.

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FEATURES

- PMMA Electrolytic Cell (volume 256ml)
- Integated Rectifier 10A -12V (resolution: 0,01A - 0,1V), Ripple 1%, V-A stabilization
- Electric Heater to heat up the liquid
- Adjustable Mechanical Agitation
- Adjustable Insufflation System
- Integrated Timer with acoustic alarm

APPLICATIONS

Analysis of the quality of the plating bath:

- Adhesion of the coating to the metal
- Deposit Internal Tensions
- Metal contamination
- Additives Balancing and quantity
- Current density Optimization

ADVANTAGES

- All the instruments in one Structure
- PPS flameproof construction
- Removable cell-cart with drip proof system

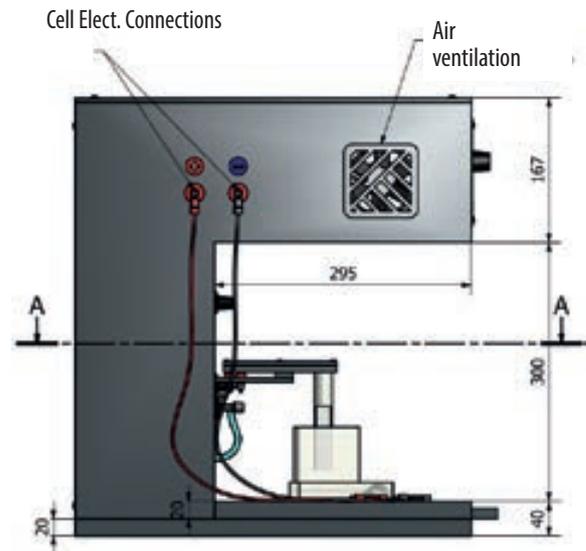
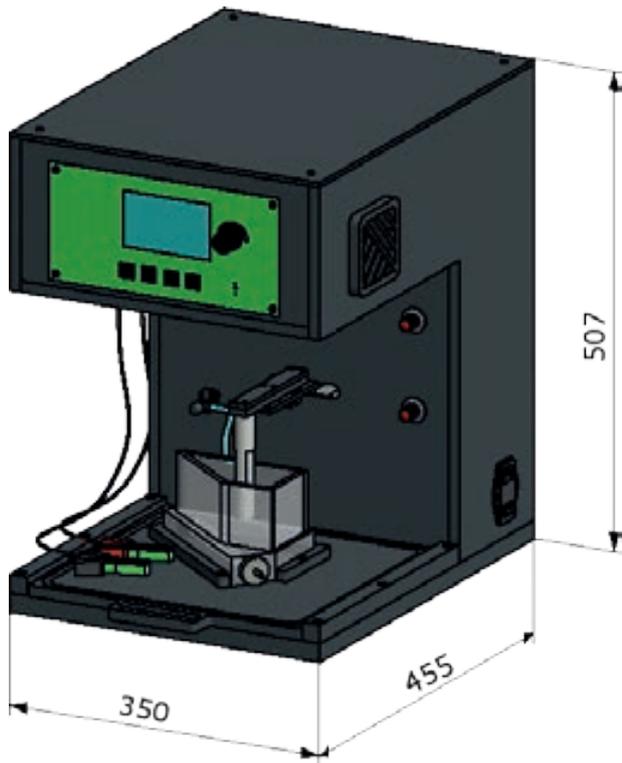
SPECIFICATION

VERSION LEGEND			
	Insufflation	Agitator	Heater
001	✓	✗	✗
002	✓	✓	✓
003	✓	✓	✗

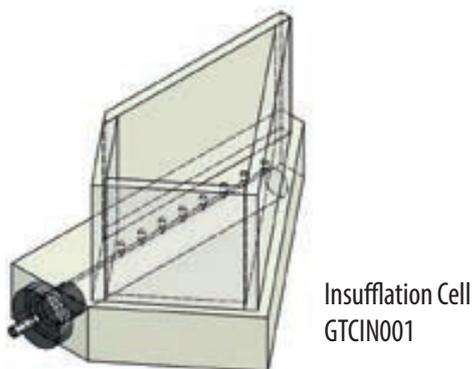
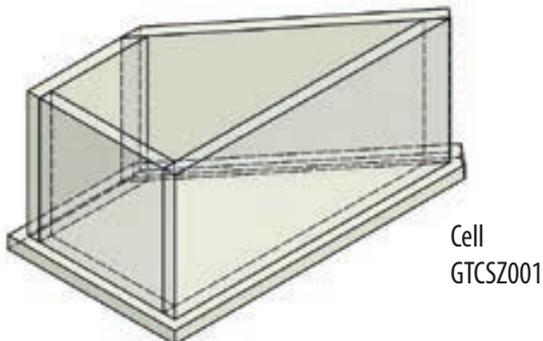


TESTER IDENTIFICATION					
Model	Rectifiers N°	Voltage (Volt)	Frequency (Hz)	Material	Version (see the legend)
GTM	R1=1	220	50 60	PS=PPS	001
	R2=2				002
					003
GTM	R1	220	50	PS=PPS	002

DIMENSIONS



GTC CELL



CELL IDENTIFICATION		
Description	Type	Version
GTC	IN=with insufflation	001
	SZ=without insufflation	
GTC	IN	001

Product Range: PUMP: Magnetic Drive, Horizontal, Mechanical Seal, Vertical, Diaphragm, Drum, - FILTERING SYSTEMS – PRECIOUS METAL RECOVERY SYSTEMS – DEPURATION – FILTERS: String Wound Cartridges, Melt Blown, Filtering Disks, Bag Filters, Plated Filter Cartridges, Absolute – ACCESSORIES: Gratings, Venturi Educator – CUSTOMIZED COMPONENTS.

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