



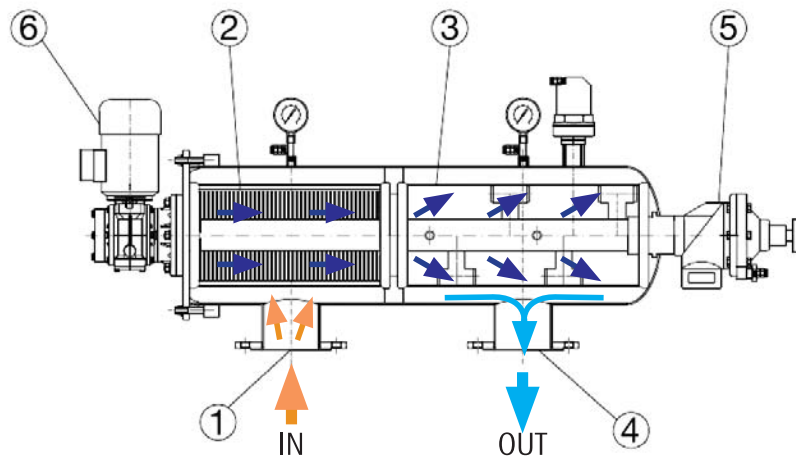
FILBLUE 2000

FUNDAMENTALS OF OPERATION SERVICE

The water enters the filter (IN), then crosses a prefiltration chamber (1) from out to in and then through the fine secondary filter (3), from in to out. The prefilter prevents passage of larger suspended matter in order to protect the cleaning components in the second stage. The water is filtered to the required degree in the second stage before passing to service (4). Filtration in the second stage is effected by a polyester sleeve of the desired micron rating, fitted over an internal support mesh.

SERVICE

Valve (5)	Closed
Motor (6)	Off



FILBLUE 2000

SELF CLEANING CYCLE

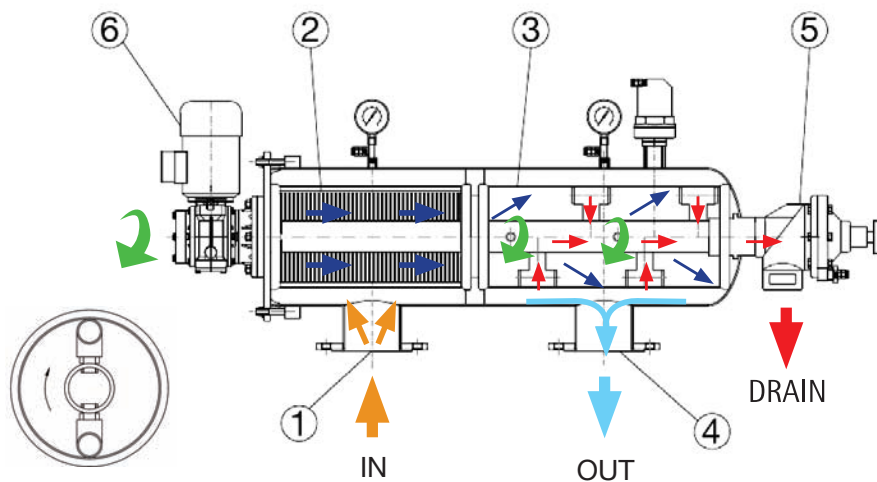
The deposition of suspended particles on the filter sleeve impedes water flow across it and hence causes a pressure differential (ΔP) across the filter sleeve. The self cleaning cycle is initiated when the pressure differential reaches a pre-set value, adjustable between 0.3 and 1 bar. A signal:

- opens the drain valve (5)
- starts the electric motor (6) which drives the rotation of the suction nozzle shaft

The particles on the internal surface of the sleeve are removed through the suction nozzles and discharged through the drain valve. The suction effect is created by opening the discharge valve and the cleaning cycle has a duration of 15 secs. The unit continues to supply water to service during the cleaning cycle

CLEANING

Valve (5)	Open
Motor (6)	On



CONTROLLER

A control panel mounted either on the body or separate from the unit, controls the cleaning cycle on receipt of a signal from the pressure differential switch or by manual initiation. The control panel has an alarm fitted to indicate malfunction of the cleaning cycle. The cleaning cycle may be activated manually in the control panel.



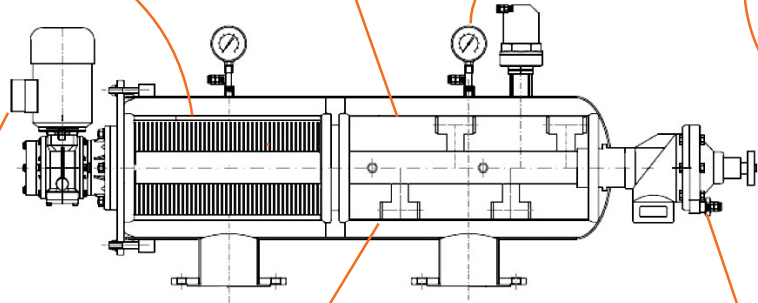
FILTER CYLINDER



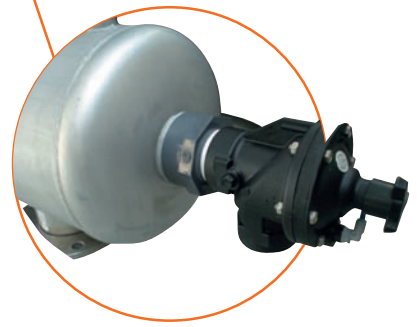
PREFILTER CYLINDER



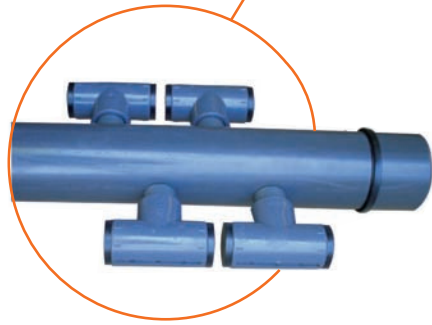
PRESSURE GAUGE



ELECTRIC MOTOR



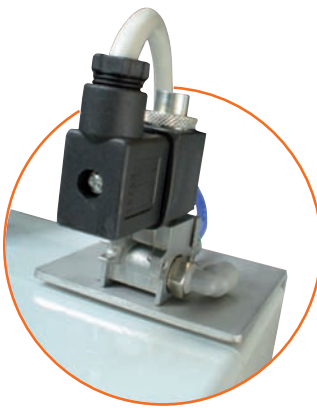
DRAIN VALVE



SUCTION NOZZLES AND SUPPORT PIPE



DIFFERENTIAL PRESSURE GAUGE



SOLENOID VALVE



PANEL CONTROL



FILBLUE 3000

The FILBLUE 3000 automatic selfcleaning filter is designed to remove all suspended solids from surface waters (rivers, lakes and seawater), well water and waste water. Recommended applications include:-

- Prefiltration for ultrafiltration (UF) plants
- Prefiltration for reverse osmosis (RO) plants
- Prefiltration for water treatment plants
- Process water
- Evaporative cooling towers
- Heat exchangers
- Irrigation
- Aquaculture
- Protection of spray nozzles

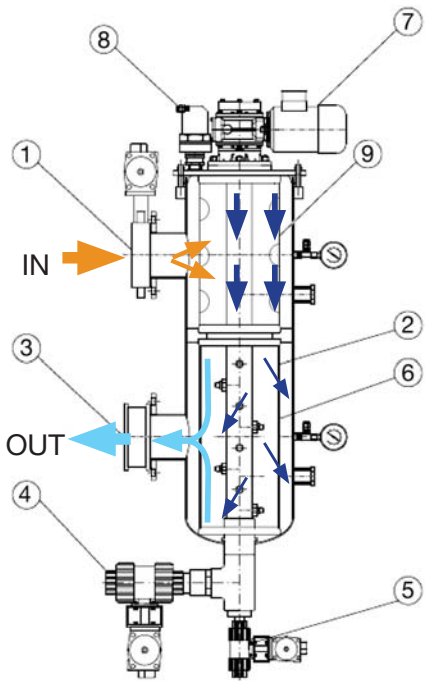
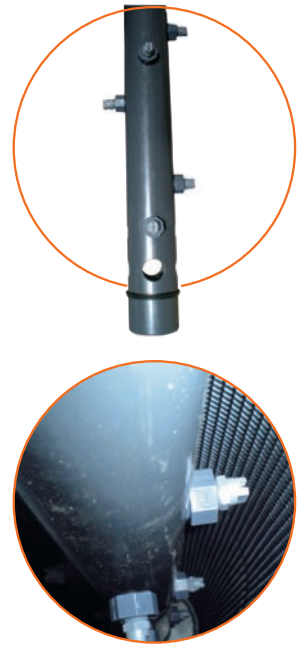
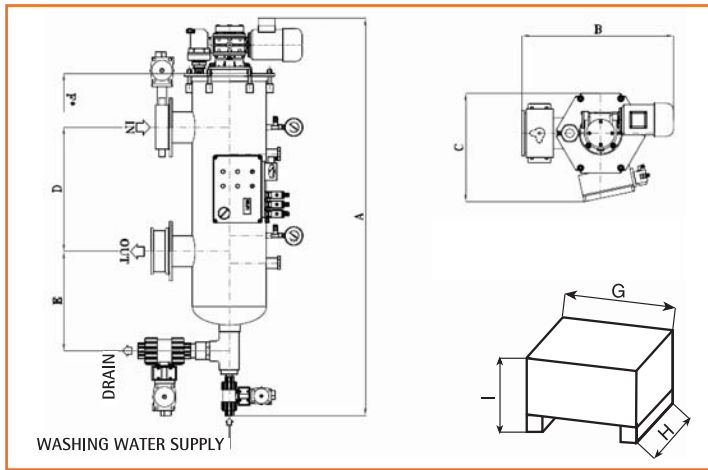


TECHNICAL FEATURES	FILBLUE 3000 80-15	FILBLUE 3000 100-30	FILBLUE 3000 150-45	FILBLUE 3000 200-60
Code	F3000316080	F3000316100	F3000316150	F3000316200
Surface area cm ²	1500	3000	4500	6000
Connections IN/OUT	DN80	DN100	DN150	DN200
Drain	D50 mm	D50 mm	D50 mm	D50 mm
Cleaning feed	D25 mm	D25 mm	D25 mm	D25 mm
Flow rate at 3 Bar	1,2	2,4	3,6	4,8
Cleaning Sec.	80	80	90	120
Pressure min-max Bar	0,5 - 10 16 Bar (On request)			
Temperature max - °C	60	60	60	60
pH min-max	5 - 8	5 - 8	5 - 8	5 - 8
Electric power Volt	380 50Hz (Other voltages available on request)			
Power Watt	180	180	180	180
Solenoid valve Volt/Watt	24 AC/6	24 AC/6	24 AC/6	24 AC/6
Air pressure Bar	2 - 8 (Hydraulic supply on request)			
Max diam. inlet partides mm	5	5	5	5
Flow rate*:				
300 µm	80	130	200	300
200 µm	80	130	200	300
125 µm (standard)	80	130	200	300
80 µm	72	117	180	270
50 µm	67	110	169	254
25 µm	39	63	97	146
Size**:				
A (mm)	1245	1490	1735	1980
B (mm)	580	580	600	600
C (mm)	400	400	400	400
D (mm)	345	460	585	700
E (mm)	250	370	495	615
F (mm) * Cartridge Extraction	700	900	1150	1400
Weight kg	38	42	50	62
Packaging***:				
G (mm)	1310	1555	1800	2050
H (mm)	470	470	470	470
I (mm)	600	600	600	600
Weight (kg)	44	49	56	70
Component:				
Body	AISI 316 decapped, MIG welding. Upon request Duplex (SAF2205)			
End cap	AISI 316. Upon request Duplex (SAF2205)			
Flange connections	AISI 316. PN10 UNI2277			
Thread connections	GAS thread UNI338-66			
Prefilter	PVC			
Sleeve internal support	PVC			
Filtration sleeve	Polyester - filtration gradients available: 300, 200, 125, 80, 50, 25 micron			
Inner protective casing	PP			
Spray nozzle	PVDF			
Nozzle support	PVC			
Nozzles support pipe	PVC			
Internal seals	NBR			
Reduction gear	Aluminium and carbon steel			
Electric motor	Painted Aluminium			
Pneumatic solenoid valve	Aluminium five ways			
Panel control	ABS IP65 with frontal screen			
Differential pressure gauge	Aluminium with AISI 316 parts in contact with water			
Drain valve	PVC ball valve - Female glued - With pneumatic actuator double effect			
Wash water inlet valve	PVC ball valve - Female glued - With pneumatic actuator double effect			
Inlet valve	Cast iron butterfly valve - Lens in AISI 316 - With pneumatic actuator double effect			
Outlet valve	AISI 316 one way valve with spring			
Vent	PP automatic			
Pressure gauges	INOX - Diameter 2"1/2 - 0-10 Bar			
Accessories (Plugs and reducers)	PP - PVC			

* Max clean water flow rate in m³/h at 20°C and differential pressure 0,15 bar.

** Measurements may be changed by the manufacturer without notice.

*** The packaging may be changed by the manufacturer without notice.



FILBLUE 3000

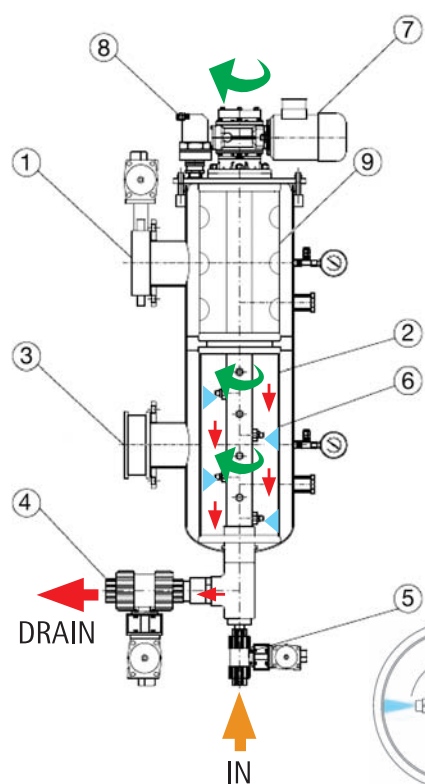
FUNDAMENTALS OF OPERATION

SERVICE

The water enters the filter (IN), then crosses a inlet chamber (9) from out to in and then through the fine secondary filter (2), from in to out. The prefilter prevents passage of larger suspended matter in order to protect the cleaning components in the second stage. The water is filtered to the required degree in the second stage before passing to service (3). Filtration in the second stage is effected by a polyester sleeve of the desired micron rating, fitted over an internal support mesh.

SERVICE

Valve (1)	Open
Valve (3)	Open
Valve (4)	Closed
Valve (5)	Closed
Motor (7)	Off



FILBLUE 3000

SELF CLEANING CYCLE

The deposition of suspended particles on the filter sleeve impedes water flow across it and hence causes a pressure differential (DP) across the filter sleeve. The self cleaning cycle is initiated when the pressure differential reaches a pre-set value, adjustable between 0.3 and 1 bar. The sleeve is washed by a series of pressurised water jets in a three stage cycle:-

- The inlet valve (1) closes and the non return valve (3) prevents a back flow
- The drain valve (4) opens and the filter empties
- The wash water inlet valve (5) opens and the electric motor (7) initiates the rotation of spray nozzles directed onto the polyester filter sleeve.

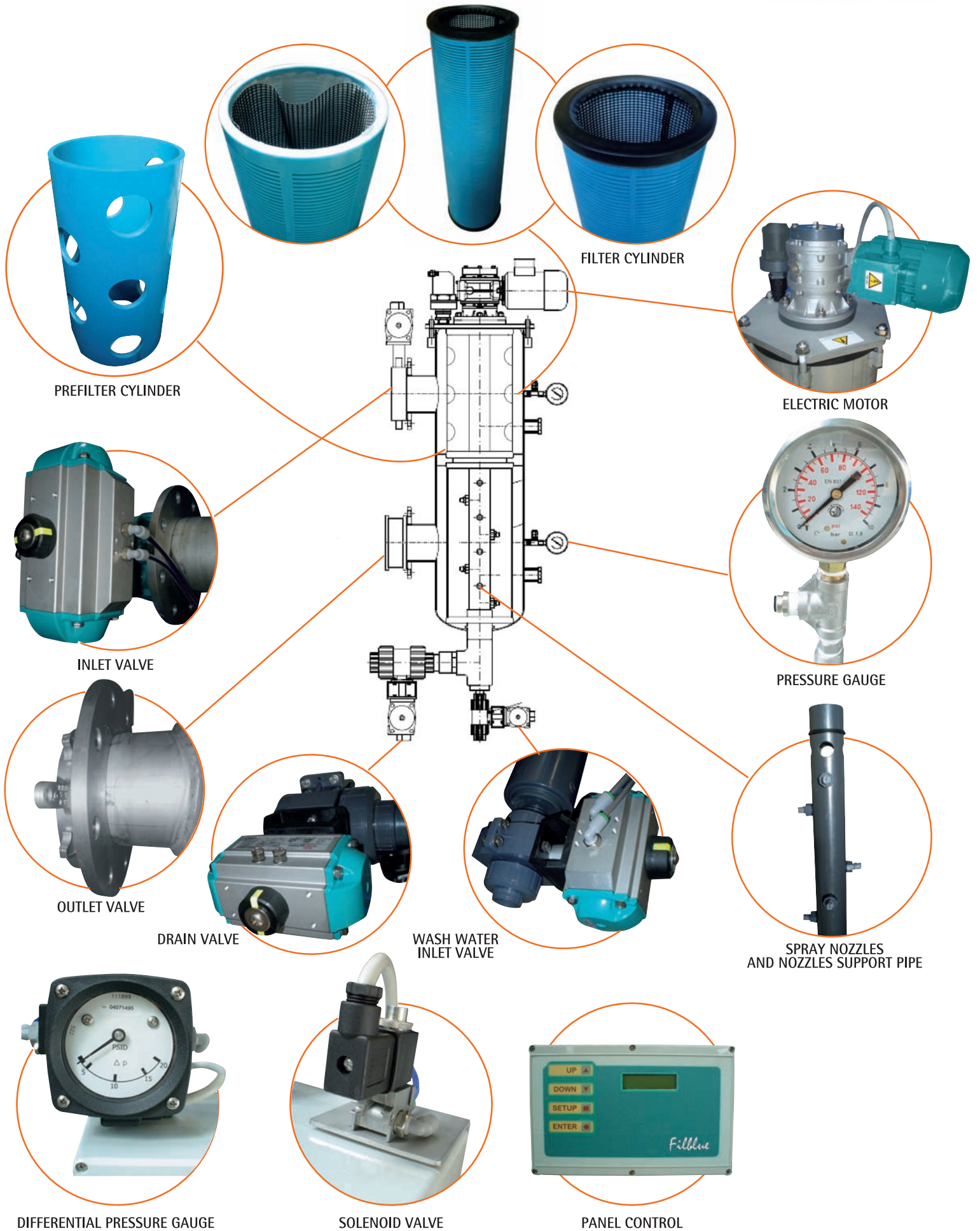
The cleaning cycle requires a supply of clean water (preferably filtered) at a minimum pressure of 2 bar. The cleaning cycle takes between 80-120 seconds.

CLEANING

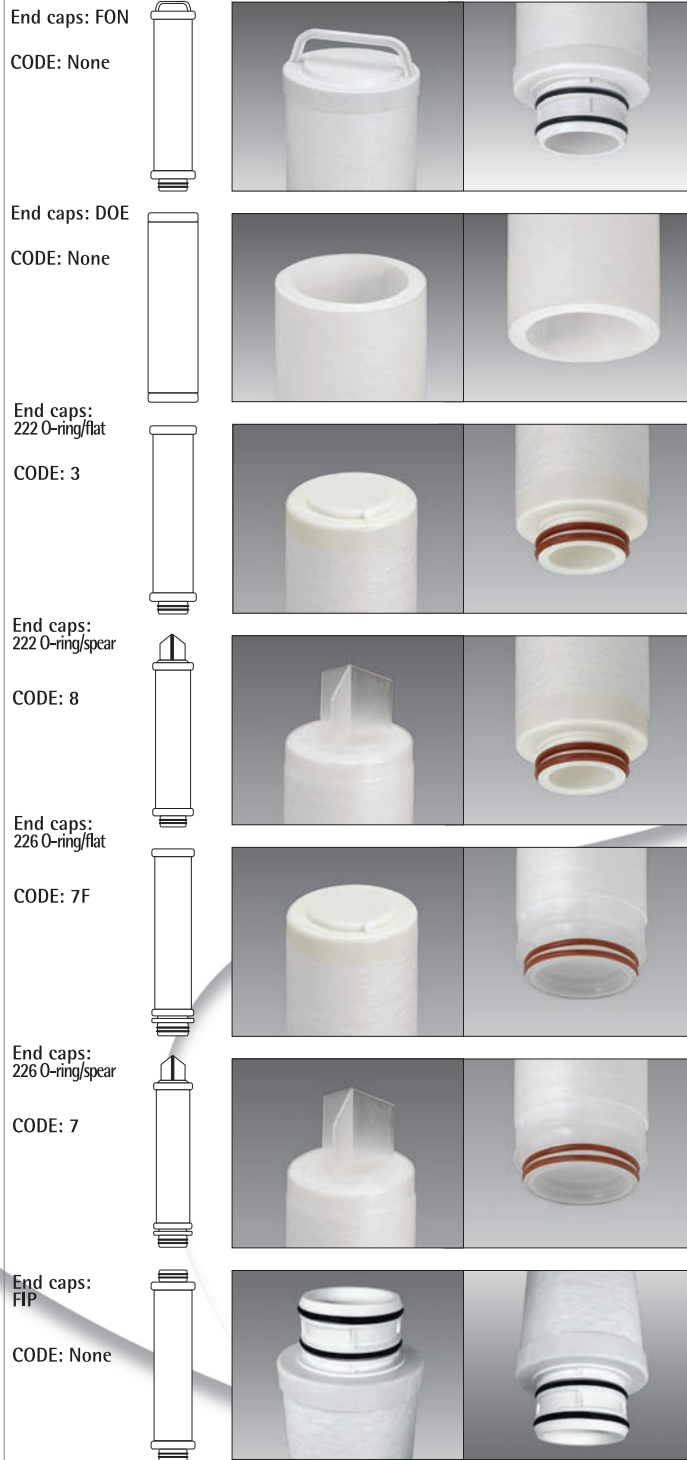
Valve (1)	Closed
Valve (3)	Closed
Valve (4)	Open
Valve (5)	Open
Motor (7)	On

CONTROLLER

A control panel mounted either on the body or separate from the unit, controls the cleaning cycle on receipt of a signal from the pressure differential switch or by manual initiation. The control panel has an alarm fitted to indicate malfunction of the cleaning cycle. A signal from the controller may be used to operate a bypass valve during the cleaning cycle, to ensure continuous flow. The cleaning cycle may be activated manually in the control panel.



SEDIMENT CARTRIDGES



CARTRIDGES FR-N QUALITY COMPARISON TEST

Under exact same working conditions, AQUA Cartridge clearly shows it's very high efficient filtering capacity against the evident "break-down" of the competitor.



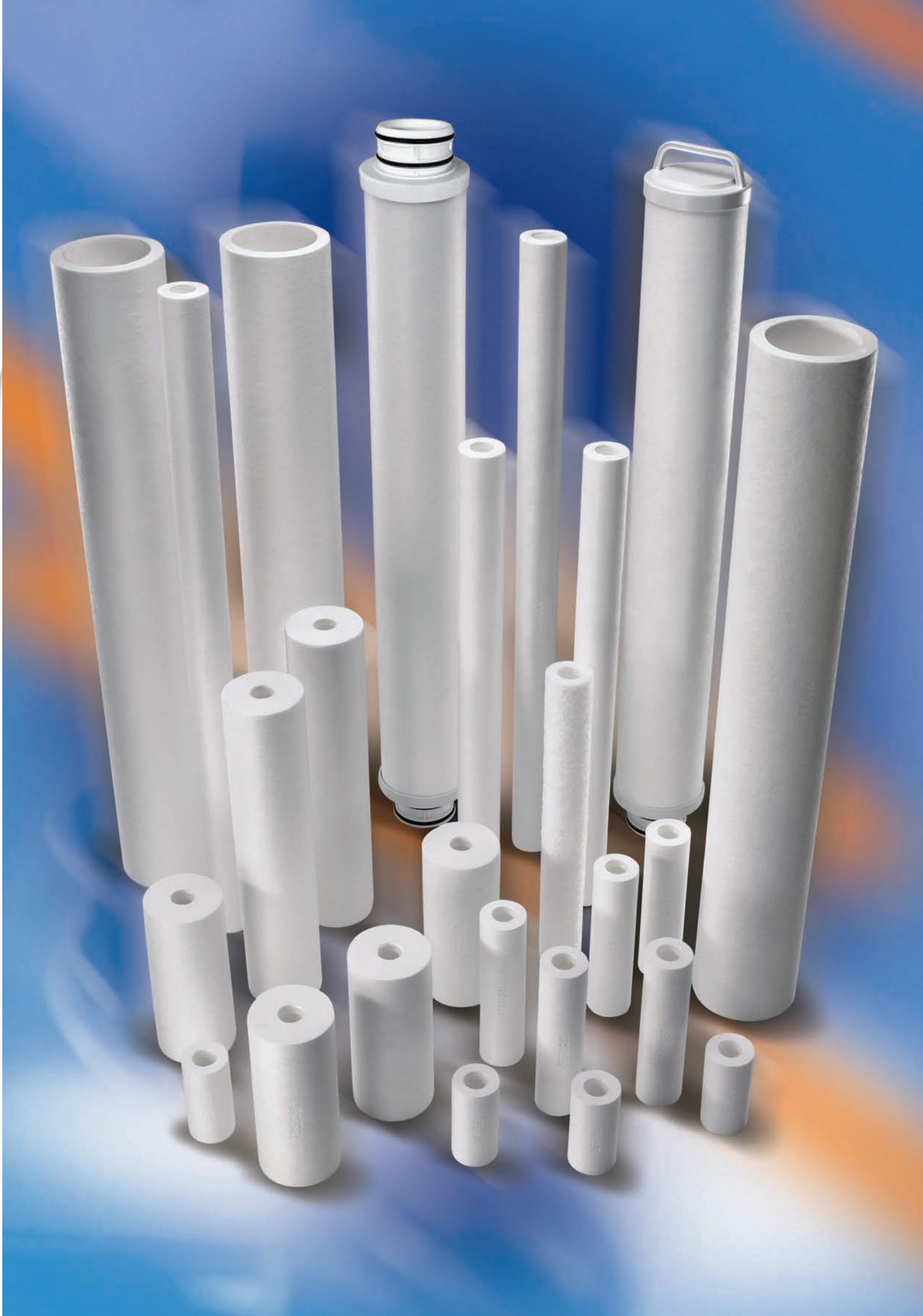
RAW MATERIALS:

PP = Polypropylene	PES = Polyester	PA = Nylon
PVC = Polyvinyl chloride	PST = Polystyrene	SS = Stainless steel

O.RING and SEALS:

Buna N	B	Silicone	S
Viton	V	Teflon	T
Neoprene	N	Vinyl Plastisol	VP
PVC	P		

Cartridges



Our depth cartridges FR-N Series are designed to obtain a high efficiency and filtration of various liquids having impurity. Using only 100% pure polypropylene they are manufactured through state of the art technology. They are generally used in applications that require extremely high quality filtration. During the manufacturing process, the polypropylene is mixed with compressed hot air. Then it is stratified on a rigid polypropylene core through a continuous and constant rotating movement. This process infuses and intersects the polypropylene fibres amongst themselves. This creates the so called "Depth Cartridge" guaranteeing a uniform filtration along all the surface of the cartridge.

The Polypropylene fibres used are always and only of first choice which processed at high temperatures welds them together eliminating any possibility of losing particles or residuals. The range vary from 1 to 90 micron and standard lengths are 9"3/4 to 40". The cartridges are made up as one whole piece no matter what length.

PECULIAR CHARACTERISTICS:

- High Depth Filtration
- Constant filtration on all surface
- High Yield
- High resistance to compression
- High Stability
- Lower pressure drop
- No residual or particle loss

FILTER EFFICIENCY:

The FR-N Cartridges are fully tested to achieve at least 95% filtration efficiency. This means that a 10 micron FR-N Cartridge will filter 95% of particles having a diameter of 10 micron or more. The extraordinary filtration capability of the FR-N cartridges is obtained thanks to its wide filtering surface and compactness which is distributed along all the surface of the cartridge itself. The cartridges need to be changed when a loss in pressure drop is detected or in any case when the specific filtering application requires it.

FLOW RATE (lt/h)		9"3/4	20"	23"	30"	40"
MICRON						
1	FRN	800	1400		2000	2600
5	FRN	1500	2700		3800	4800
10	FRN	2000	3600		5000	6400
20	FRN	2500	4500		6200	8000
30	FRN	2600	4600		6500	8000
50	FRN	2600	4600		6500	8000
90	FRN	2700	4800		6800	8000
1-10	FRN-DG	900	1500		2100	2700
5-20	FRN-DG	1600	2800		3900	4900
20-50	FRN-DG	2600	4600		6300	8100
1	FRN-BIG	800	1400			
5	FRN-BIG	1500	2700			
20	FRN-BIG	2500	4500			
50	FRN-BIG	2600	4600			
1-10	FRN-BIG-DG	800	1600		2400	
5-20	FRN-BIG-DG	1800	3200		4800	
20-50	FRN-BIG-DG	2700	4800		6000	
1-10	FON			8000		16000
5-20	FON			15000		30000
20-50	FON			20000		40000
50-90	FON			25000		50000
1	CL		6000			12000
5	CL		12000			24000
10	CL		15000			30000
20	CL		18000			36000
40	CL		25000			50000
70	CL		25000			50000
90	CL		25000			50000
5-20	CL		13000			26000
20-50	CL		20000			40000
1-10	FR-N-FIP					16000
5-20	FR-N-FIP					30000
20-50	FR-N-FIP					40000
50-90	FR-N-FIP					50000

FR-N line

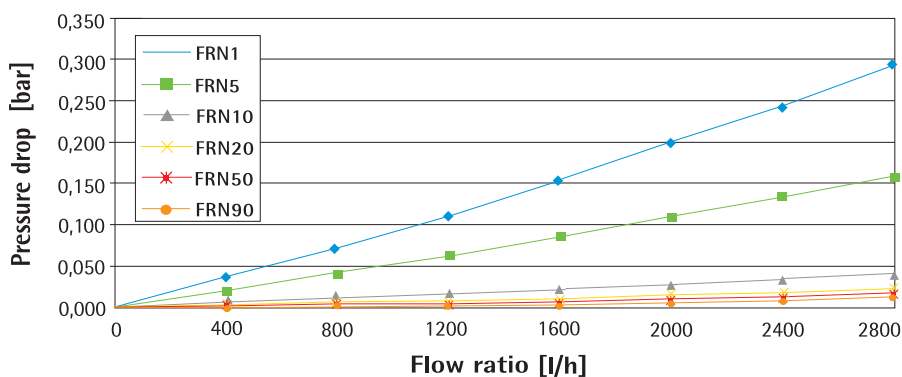
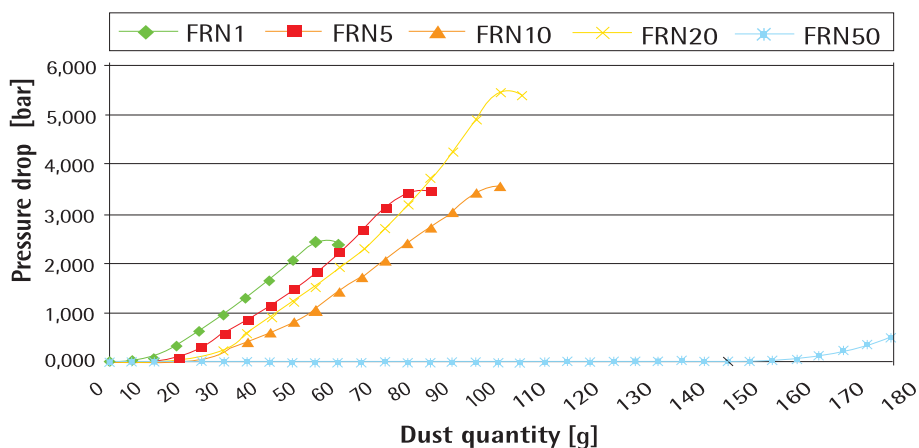
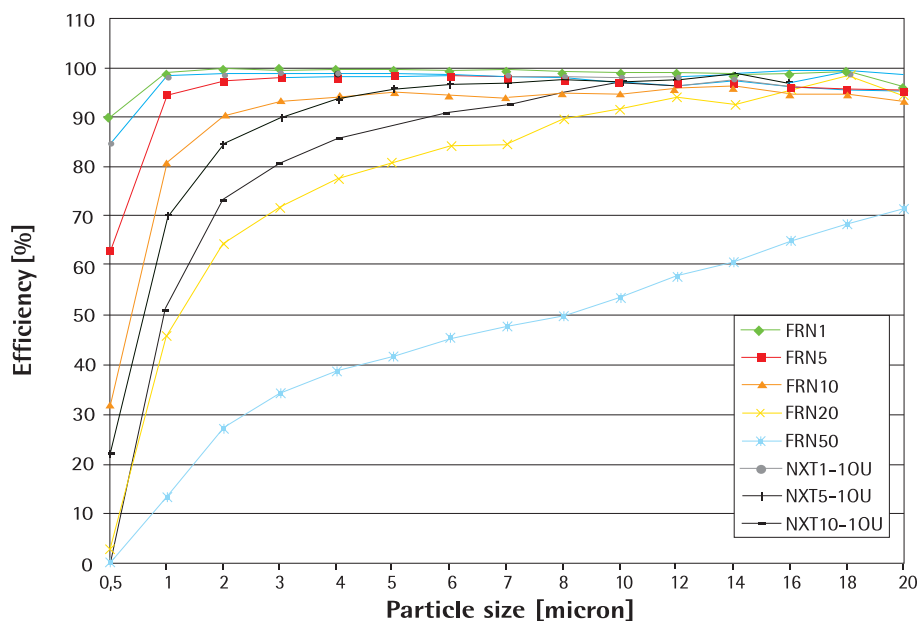
depth cartridges

APPLICATIONS:

The FR-N cartridges can be used as end-line filtration or as pre-filtration.

Applications:

- Water treatment
- Electronic/Nuclear
- Biotechnology/Fine chemicals
- Food/Beverage
- Coatings/Resins
- General Industrial
- Pharmaceutical/Cosmetics
- Bulk chemicals/Petrochemicals
- Galvanic



FR-N

TECHNICAL FEATURES

	FR-N	FR-N-DG
Raw material	100% PP	100% PP
Core	100% PP	100% PP
Outer cage	—	—
End caps	DOE, 3, 8, 7F, 7	DOE, 3, 8, 7F, 7
O-Ring / Gasket	—	—
Length	9"3/4-10"-20"-30"-40"	9"3/4-10"-20"-30"-40"
Inner diameter	28 mm	28 mm
Outer diameter	63 mm	68 mm
Micron rating	1/3/5/10/20/30/50/90	1-10/5-20/20-50
Efficiency	95%	95%
Pressure		
Max working pressure	6 bar	6 bar
Max differential pressure	0,8 bar	0,8 bar
Temperature		
Max working temperature	80°C	80°C

Note: Max flow rate at 20°C and differential pressure 0,15 bar



MELT BLOWN CARTRIDGES series FR-N

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4240250	1	9"3/4	75	12,00	0,093	
A4240260	3	9"3/4	75	12,00	0,093	
A4240270	5	9"3/4	75	12,00	0,093	
A4240280	10	9"3/4	75	12,00	0,093	
A4240290	20	9"3/4	75	12,00	0,093	
A4240300	30	9"3/4	75	12,00	0,093	
A4240310	50	9"3/4	75	14,00	0,093	
A4240320	90	9"3/4	75	14,00	0,093	
A4240330	1	10"	75	12,00	0,093	
A4240340	3	10"	75	12,00	0,093	
A4240350	5	10"	75	12,00	0,093	
A4240360	10	10"	75	12,00	0,093	
A4240370	20	10"	75	12,00	0,093	
A4240380	30	10"	75	12,00	0,093	
A4240390	50	10"	75	14,00	0,093	
A4240400	90	10"	75	14,00	0,093	
A4240410	1	20"	30	12,70	0,093	
A4240420	3	20"	30	12,70	0,093	
A4240430	5	20"	30	12,70	0,093	
A4240440	10	20"	30	12,70	0,093	
A4240450	20	20"	30	12,70	0,093	
A4240460	30	20"	30	12,70	0,093	
A4240470	50	20"	30	14,00	0,093	
A4240480	90	20"	30	14,00	0,093	
A4240490	1	30"	15	7,50	0,061	
A4240500	3	30"	15	7,50	0,061	
A4240510	5	30"	15	7,50	0,061	
A4240520	10	30"	15	7,50	0,061	
A4240530	20	30"	15	7,50	0,061	
A4240540	30	30"	15	7,50	0,061	
A4240550	50	30"	15	9,00	0,061	
A4240560	90	30"	15	7,50	0,061	
A4240570	1	40"	15	11,00	0,076	
A4240580	3	40"	15	11,00	0,076	
A4240590	5	40"	15	11,00	0,076	
A4240600	10	40"	15	11,00	0,076	
A4240610	20	40"	15	11,00	0,076	
A4240620	30	40"	15	11,00	0,076	
A4240630	50	40"	15	14,50	0,076	
A4240640	90	40"	15	11,00	0,076	

MELT BLOWN CARTRIDGES series FR-N-DG

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A424025D	1-10	9"3/4	75	12,00	0,093	
A424027D	5-20	9"3/4	75	12,00	0,093	
A424029D	20-50	9"3/4	75	12,00	0,093	
A424033D	1-10	10"	75	12,00	0,093	
A424035D	5-20	10"	75	12,00	0,093	
A424037D	20-50	10"	75	12,00	0,093	
A424041D	1-10	20"	30	12,70	0,093	
A424043D	5-20	20"	30	12,70	0,093	
A424045D	20-50	20"	30	12,70	0,093	
A424049D	1-10	30"	15	7,50	0,061	
A424051D	5-20	30"	15	7,50	0,061	
A424053D	20-50	30"	15	7,50	0,061	
A424057D	1-10	40"	15	11,00	0,076	
A424059D	5-20	40"	15	11,00	0,076	
A424061D	20-50	40"	15	11,00	0,076	



FR-N AQUA BIG

TECHNICAL FEATURES

FR-N BIG

FR-N BIG - DG

Raw material	100% PP	100% PP
Core	100% PP	100% PP
Outer cage	—	—
End caps	DOE	DOE
O-Ring / Gasket	—	—
Length	9"3/4-20"	9"3/4-20"-30"
Inner diameter	28 mm	28 mm-38 mm
Outer diameter	114 mm	120 mm
Micron rating	1/5/20/50	1-10/5-20/20-50
Efficiency	95%	95%
Pressure		
Max working pressure	6 bar	6 bar
Max differential pressure	0,8 bar	0,8 bar
Temperature		
Max working temperature	80°C	80°C

Note: Max flow rate at 20°C and differential pressure 0,15 bar



MELT BLOWN CARTRIDGES series FR-N AQUA BIG

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4270100	1	9"3/4	8	4,50	0,036
A4270120	5	9"3/4	8	4,50	0,036
A4270140	20	9"3/4	8	4,50	0,036
A4270150	50	9"3/4	8	4,50	0,036
A4270110	1	20"	4	3,60	0,036
A4270200	5	20"	4	3,60	0,036
A4270220	20	20"	4	3,60	0,036
A4270230	50	20"	4	3,60	0,036
A427010E	1-10	9"3/4	8	6,00	0,036
A427012E	5-20	9"3/4	8	4,50	0,036
A427014E	20-50	9"3/4	8	4,50	0,036
A427011E	1-10	20"	4	5,00	0,036
A427020E	5-20	20"	4	3,60	0,036
A427022E	20-50	20"	4	3,60	0,036
A427009S	1-10	30" ø 38 mm	4	7,50	0,054
A427005S	5-20	30" ø 38 mm	4	5,40	0,054
A427006S	20-50	30" ø 38 mm	4	5,40	0,054

MELT BLOWN CARTRIDGES series FR-N AQUA BIG DG

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A427010E	1-10	9"3/4	8	6,00	0,036
A427012E	5-20	9"3/4	8	4,50	0,036
A427014E	20-50	9"3/4	8	4,50	0,036
A427011E	1-10	20"	4	5,00	0,036
A427020E	5-20	20"	4	3,60	0,036
A427022E	20-50	20"	4	3,60	0,036
A427009S	1-10	30" ø 38 mm	4	7,50	0,054
A427005S	5-20	30" ø 38 mm	4	5,40	0,054
A427006S	20-50	30" ø 38 mm	4	5,40	0,054

FON BIG ONE/CL

TECHNICAL FEATURES

FON BIG ONE

CL

Raw material	100% PP	100% PP
Core	100% PP	—
Outer cage	—	—
End caps	FON	DOE
O.Ring/Gasket	B, S, V.	—
Length	23", 40"	20", 40"
Inner diameter	76 mm	114,3 mm
Outer diameter	147,5 mm	152,4 mm
Micron rating	1-10, 5-20, 20-50, 50-90	1, 5, 10, 20, 40, 70, 90, 5-20, 20-50.
Efficiency	95%	95%
Pressure		
Max working pressure	6 bar	6 bar
Max differential pressure	0,8 bar	0,8 bar
Temperature		
Max working temperature	80°C	40°C

Note: Max flow rate at 20°C and differential pressure 0,15 bar

MELT BLOWN CARTRIDGES series FON for BIG ONE

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4310060	1-10	23"	1	2,20	0,021
A4310030	5-20	23"	1	2,20	0,021
A4310040	20-50	23"	1	2,20	0,021
A4310080	50-90	23"	1	2,20	0,021
A4310050	1-10	40"	1	3,60	0,033
A4310010	5-20	40"	1	3,60	0,033
A4310020	20-50	40"	1	3,60	0,033
A4310070	50-90	40"	1	3,60	0,033

MELT BLOWN CARTRIDGES series CL

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4290210	1	20"	8	7,80	0,11
A4290220	5	20"	8	7,80	0,11
A4290240	20	20"	8	7,80	0,11
A4290010	1	40"	4	7,80	0,11
A4290030	5	40"	4	7,80	0,11
A4290050	20	40"	4	7,80	0,11
A4290110	5-20	40"	4	7,80	0,11
A4290100	20-50	40"	4	7,80	0,11

Note: on request the following micron rating are available: 10, 40, 70, 90.





FR-N FIP

TECHNICAL FEATURES

FR-N FIP

Raw material	100% PP
Core	100% PP
Outer cage	—
End caps	FIP
O.Ring/Gasket	B, S, V.
Length	40"
Inner diameter	76 mm
Outer diameter	147,5 mm
Micron rating	1-10, 5-20, 20-50, 50-90 DUAL GRADIENT
Efficiency	95%
Pressure	
Max working pressure	6 bar
Max differential pressure suggested	0,8 bar
Temperature	
Max working temperature	80°C
Type end caps	
O-ring options/Code	NBR/N Viton/V

Note: Max water flow rate at 20°C and differential pressure 0,15 bar



Applications

Water treatment	Sea water and brackish water
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Other applications only after written approval of the manufacturer

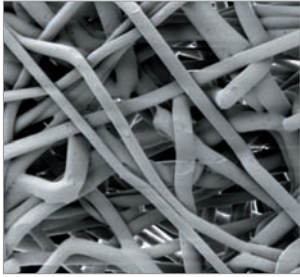
Electronic/Nuclear - Biotechnology/Fine chemicals - Food/Beverage - Coatings/Resins
General Industrial - Pharmaceutical/Cosmetics - Bulk chemicals/Petrochemicals - Galvanic

CARTRIDGES series PP MELT-BLOWN FRN-FIP DG

COD	MICRON	LENGTH	QUANTITY	Kg	FLOW
			box	box	l/h*
A4310090	1-10	40"	1	3,60	16000
A4310100	5-20	40"	1	3,60	30000
A4310110	20-50	40"	1	3,60	40000
A4310120	50-90	40"	1	3,60	50000



INTERNAL STRUCTURE OF THE CARTRIDGE



FR-A LINE

Our depth cartridges series FRA are the final result of the deep knowledge of polypropylene raw material characteristics combined with innovating technologies and cartridge manufacturing process know-how.

FRA filter cartridges have been specially designed to stop impurity particles from filtered liquids, with extremely high efficiency at low pressure drop and high absorption.

FRA filter cartridges are made of polypropylene at the melt blown technology. The melted polymer is blown in the stream of hot air and forms thin, micron diameters fibers. These, still hot fibres, create a micro-bridges at all points of contacts, which combine while further cooling down. Such three-dimensional, rigid nets of fibers forms a filter layer, with improved resistance against squashing. The fibre diameter and a porosity of the filter layer are controlled in production process, to obtain so-called "absolute" i.e. 99.98% efficiency cartridges.

Maintenance of adequate space between fibres enables easy flow of the liquid and ensures high elimination of impurities. The production process is patented.

FRA filter cartridges consist of two different fiber layers, wound on a rigid polypropylene core. The outer filter layer acts as a pre-filter and the inner one, called final filter, provides the absolute removal of particles of the diameter depending on the type of the cartridge.

Each filter layer consists of a few crossing sublayers and each sublayer consists of dozens of individual layers of the fibre. The porosity of the both layers changes in such a way, to minimize the pressure drop and maximize cartridge dirt holding capacity.

ADVANTAGES:

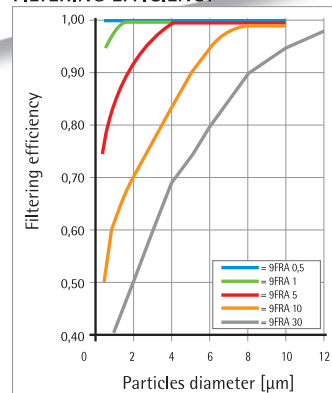
- FRA ensure filter efficiency 99,98% for the particles of the diameter specified with the cartridge code (higher for bigger particles).

- Thanks to the high porosity and exceptionally compact construction FRA provides the low pressure drop and the high capacity of dirt holding, stands high difference of the pressure and do not release particles already captured.
- Single fibers or its pieces do not leave the FRA during operation due to mutual connections of the fibers.
- High chemical resistance of the polypropylene fibers enables contact with almost all kind of the liquid media.
- High quality of used polypropylene (FDA certificate) permits for contact with food and also application in pharmacy.
- No contact with oil and silicone during production process enables using FRA for varnish- and paint production.
- FRA is perfectly suitable for clarifying of big streams of liquid, with relatively low impurities concentration. They are advised when complete removal of all particles of given diameter is required.

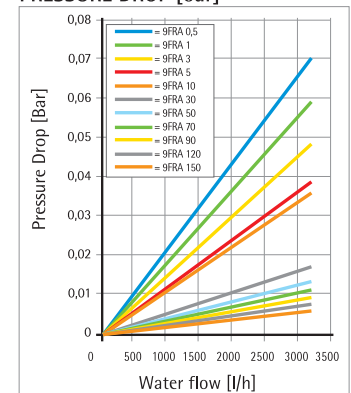
PRE-FILTER FINAL FILTER.

- = 9FRA 0,5
- = 9FRA 1
- = 9FRA 3
- = 9FRA 5
- = 9FRA 10
- = 9FRA 30
- = 9FRA 50
- = 9FRA 70
- = 9FRA 90
- = 9FRA 120
- = 9FRA 150

FILTERING EFFICIENCY



PRESSURE DROP [bar]



FLOW RATE (lt/h)

MICRON	FRA	9"3/4	20"	30"	40"
0,5	FRA	250	400	600	800
1	FRA	300	550	800	1000
3	FRA	400	700	1000	1300
5	FRA	600	1100	1600	2000
10	FRA	800	1500	2200	4000
20	FRA	1000	1900	2800	4000
50	FRA	1200	2300	3100	4000
90	FRA	1400	2600	3300	4000

FR-A line

FR-A

TECHNICAL FEATURES

FR-A

Raw material	100% PP
Core	100% PP
Outer cage	—
End caps	DOE, 3, 8, 7F, 7
O.Ring/Gasket	PP
Length	9"3/4-10"-20"-30"-40"
Inner diameter	28 mm
Outer diameter	64 mm
Micron rating	0,5, 1, 5, 10, 20, 50, 70, 90, 120, 150
Efficiency	99,98%
Pressure	
Max working pressure	6 bar
Max differential pressure	0,8 bar
Temperature	
Max working temperature	80°C

Note: Max water flow rate at 20°C and differential pressure 0,15 bar



COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4250300	0,5	9"3/4	75	12,00	0,093
A4250310	1	9"3/4	75	12,00	0,093
A4250330	5	9"3/4	75	12,00	0,093
A4250340	10	9"3/4	75	12,00	0,093
A4250350	20	9"3/4	75	12,00	0,093
A4250370	0,5	10"	75	12,00	0,093
A4250380	1	10"	75	12,00	0,093
A4250400	5	10"	75	12,00	0,093
A4250410	10	10"	75	12,00	0,093
A4250430	20	10"	75	12,00	0,093
A4250460	0,5	20"	30	12,70	0,093
A4250470	1	20"	30	12,70	0,093
A4250490	5	20"	30	12,70	0,093
A4250480	10	20"	30	12,70	0,093
A4250500	20	20"	30	12,70	0,093
A4250550	0,5	30"	15	7,50	0,061
A4250560	1	30"	15	7,50	0,061
A4250530	5	30"	15	7,50	0,061
A4250540	10	30"	15	7,50	0,061
A4250580	20	30"	15	7,50	0,061
A4250640	0,5	40"	15	11,00	0,076
A4250650	1	40"	15	11,00	0,076
A4250670	5	40"	15	11,00	0,076
A4250680	10	40"	15	11,00	0,076
A4250740	20	40"	15	11,00	0,076

Note: on request the following micron rating are available: 50, 70, 90, 120, 150.

On request Absolute cartridges for AQUA BIG and BIG ONE housings are available, as well as Absolute Coreless 20" and 40" cartridges.

SEDIMENT CARTRIDGES

Our Polypropylene wound cartridges are part of the depth and deforming cartridge series.

They are manufactured using only 100% pure non-toxic polypropylene yarn. This series offers an excellent ratio between cost/quality, even though usually referred to as "economic-type" they are manufactured so as to guarantee a high nominal filtration level.

In this series we have 2 main types of Wound PP Cartridges

Wound Cartridge Carded Wash – Oil residual 0,07%

Because of its characteristics, this wash carded yarn is of superior quality. It is manufactured using only first choice raw materials and during the process of extrusion & twist it undergoes a wash treatment at very high temperatures eliminating oil residuals used beforehand of the manufacturing process itself. To increase its resistance, it is then carded and no further oils are added thus guaranteeing a completely non-toxic natural polypropylene yarn.

The yarn's appearance is uniform, homogenous and very strong. This will allow a very compact construction of the cartridge itself and through a precise pattern mounting, it will achieve remarkable increase in the filtration surface. Therefore as a consequence, an increase in cartridge life. All this to achieve a higher filtration efficiency at an excellent cost/quality ratio.

Wound Cartridge Open-end Wash – Oil residual 0,2%

This yarn is manufactured using machinery that allows a shorter production period and therefore a more economically priced product. The raw material used for this product is exactly the same as the Wash Carded type. The only difference is that it is not carded after the process of extrusion & twist but simple manufactured around a BCF (by extrusion spun yarn) making it compact and uniform. Although less compact than the carded one, it still yields a satisfying filtration performance at lower costs. Amongst the inconveniences of this cartridge is that at the beginning of use

it creates a small amount of foam that after a short period will disappear. Even if the foam is non-toxic, in certain applications it could cause minor problems to the post-filtration unit. Therefore it is important to know were such cartridge will be applied to avoid any inconvenience.

The inside core of the filter is rigid and in Polypropylene which guarantees stability. The lengths range from 4" to 40" and the micron range from 1 to 100.

FLOW RATE (lt/h)

MICRON		9"3/4	20"	23"	30"	40"	Applications:
1	FA	300	600		900	1200	Water treatment, Electronic/Nuclear, Biotechnology/Fine chemicals, Food/Beverage, Coatings/Resins, General Industrial, Bulk chemicals/ Petrochemicals, Galvanic.
3	FA	500	1000		1500	2000	
5	FA	800	1600		2400	3200	
10	FA	1100	2200		3300	4000	
20	FA	1700	2500		3400	4000	
30	FA	1800	2600		3500	4000	
50	FA	1900	2600		3500	4000	
100	FA	2000	2800		3600	4000	
1	FA-BIG	300	600		900		
5	FA-BIG	800	1600		2400		
10	FA-BIG	1100	2200		3300		
20	FA-BIG	1700	2500		3400		
50	FA-BIG	1900	2600		3500		
100	FA-BIG	2000	2800		3600		
1	FA FON			9000		18000	
5	FA FON			16000		32000	
20	FA FON			22000		44000	
50	FA FON			27000		54000	
1	FA FIP					11200	
5	FA FIP					21000	
20	FA FIP					28000	
50	FA FIP					35000	

FA line



FA

TECHNICAL FEATURES

	FA	FA AQUA BIG	FA BIG ONE
Raw material:	100% PP	100% PP	100% PP
Core:	100% PP	100% PP	100% PP
Outer cage:	—	—	—
End caps:	DOE	DOE	FON
O-Ring / Gasket:	—	—	B, V
Length:	9"3/4-10"-20"30"-40"	9"3/4-20"-30"	23", 40"
Inner diameter:	28 mm	28 mm - 38 mm	76 mm
Outer diameter:	61 mm	114 mm	147,5 mm
Micron rating:	1/3/5/10/20/30/50/100	1/5/10/20/50/100	1/5/20/50
Efficiency:	80%	80%	80%
Pressure:			
Max working pressure:	6 bar	6 bar	6 bar
Max diferential pressure:	0,8 bar	0,8 bar	0,8 bar
Temperature:			
Max working temperature:	80°C	80°C	80°C

Note: Max water flow rate at 20°C and differential pressure 0,15 bar

WOUND PP CARTRIDGES series FA

COD	QUANTITY	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
	package			box		box	
A4010250	2	1	9"3/4	72	19,20	0,077	
A4010260	2	3	9"3/4	72	14,90	0,077	
A4010270	2	5	9"3/4	72	19,20	0,077	
A4010280	2	10	9"3/4	72	14,90	0,077	
A4010290	2	20	9"3/4	72	13,60	0,077	
A4010300	2	30	9"3/4	72	13,60	0,077	
A4010310	2	50	9"3/4	72	13,60	0,077	
A4010320	2	100	9"3/4	72	13,60	0,077	
A4010330	2	1	10"	72	19,60	0,077	
A4010340	2	3	10"	72	19,60	0,077	
A4010350	2	5	10"	72	15,30	0,077	
A4010360	2	10	10"	72	15,30	0,077	
A4010370	2	20	10"	72	13,50	0,077	
A4010380	2	30	10"	72	13,50	0,077	
A4010390	2	50	10"	72	13,50	0,077	
A4010400	2	100	10"	72	13,50	0,077	
A4010410	1	1	20"	36	16,30	0,077	
A4010420	1	3	20"	36	16,30	0,077	
A4010430	1	5	20"	36	14,40	0,077	
A4010440	1	10	20"	36	14,40	0,077	
A4010450	1	20	20"	36	13,20	0,077	
A4010460	1	30	20"	36	13,20	0,077	
A4010470	1	50	20"	36	13,20	0,077	
A4010480	1	100	20"	36	12,30	0,077	
A4010490	1	1	30"	20	13,30	0,088	
A4010500	1	3	30"	20	13,30	0,088	
A4010510	1	5	30"	20	12,00	0,088	
A4010520	1	10	30"	20	12,00	0,088	
A4010530	1	20	30"	20	10,60	0,088	
A4010540	1	30	30"	20	10,60	0,088	
A4010550	1	50	30"	20	10,60	0,088	
A4010560	1	100	30"	20	10,20	0,088	
A4010570	1	1	40"	20	19,10	1,150	
A4010580	1	3	40"	20	19,10	1,150	
A4010590	1	5	40"	20	17,80	1,150	
A4010600	1	10	40"	20	17,80	1,150	
A4010610	1	20	40"	20	17,00	1,150	
A4010620	1	30	40"	20	17,00	1,150	
A4010630	1	50	40"	20	17,00	1,150	
A4010640	1	100	40"	20	16,50	1,150	

WOUND PP CARTRIDGES series FA for 1"1/4-1"1/2-2" inlets/outlets

COD	QUANTITY	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
	package			box		box	
A4011450	2	5	7"	108	16,00	0,077	
A4011440	2	20	7"	108	14,30	0,077	
A4010680	2	100	7"	108	14,30	0,077	
A4010790	2	5	9"3/4	72	14,90	0,077	
A4010690	2	20	9"3/4	72	13,60	0,077	
A4011460	2	100	9"3/4	72	13,60	0,077	

WOUND PP CARTRIDGES series FA AQUA BIG

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box		box	
A4010780	1	9"3/4	18	15,40	0,077	
A4010650	5	9"3/4	18	14,60	0,077	
A4010770	10	9"3/4	18	14,60	0,077	
A4010660	20	9"3/4	18	14,60	0,077	
A4011400	50	9"3/4	18	12,40	0,077	
A4011200	100	9"3/4	18	12,40	0,077	
A4010900	1	20"	9	17,60	0,077	
A4010700	5	20"	9	16,70	0,077	
A4011410	10	20"	9	16,70	0,077	
A4010710	20	20"	9	16,70	0,077	
A4010890	50	20"	9	13,50	0,077	
A4011140	100	20"	9	13,50	0,077	
A4011740	1	30" D.38mm	9	26,40	0,088	
A4011750	5	30" D.38mm	9	25,00	0,088	
A4011760	10	30" D.38mm	9	25,00	0,088	
A4011770	20	30" D.38mm	9	25,00	0,088	
A4011780	50	30" D.38mm	9	20,20	0,088	
A4011790	100	30" D.38mm	9	20,20	0,088	

WOUND PP CARTRIDGES series FA BIG ONE

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box		box	
A4018010	1	23"	1	2,20	0,021	
A4018020	5	23"	1	2,20	0,021	
A4018030	20	23"	1	2,20	0,021	
A4018040	50	23"	1	2,20	0,021	
A4018050	1	40"	1	3,60	0,033	
A4018060	5	40"	1	3,60	0,033	
A4018070	20	40"	1	3,60	0,033	
A4018080	50	40"	1	3,60	0,033	

FA FIP

TECHNICAL FEATURES

FA FIP

Raw material	100% PP
Core	100% PP
Outer cage	-
End caps	FIP
O.Ring/Gasket	-
Length	40"
Inner diameter	76 mm
Outer diameter	147,5 mm
Micron rating	1, 5, 20, 50
Efficiency	80%
Pressure	
Max working pressure	6 bar
Max differential pressure suggested	0,8 bar
Temperature	
Max working temperature	80°C
Type end caps	
O-ring options/Code	NBR/N Viton/V

Note: Max water flow rate at 20°C and differential pressure 0,15 bar



Applications

Water treatment	Sea water and brackish water
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Other applications only after written approval of the manufacturer

Electronic/Nuclear - Biotechnology/Fine chemicals - Food/Beverage - Coatings/Resins
General Industrial - Pharmaceutical/Cosmetics - Bulk chemicals/Petrochemicals - Galvanic

CARTRIDGES series PP MELT-BLOWN FA FIP

COD	MICRON	LENGTH	QUANTITY	Kg	FLOW
			box	box	l/h*
A4018140	1	40"	1	3,60	11200
A4018150	5	40"	1	3,60	21000
A4018160	20	40"	1	3,60	28000
A4018170	50	40"	1	3,60	35000





CARTRIDGES PLEATED

Pleated cartridges represent a valid filtering solution for diverse applications. Certified raw materials are used and have particular technical characteristics that give the cartridge reliability and resistance.

An important factor of quality is the mechanical resistance. In both cases of Polyester or Cellulose cartridges, the resistance is given by using 100% pure endless fibres. After pleating, which takes into account fixed parameters (pleats dimensions and quantity) that guarantee maximum efficiency, the element is mounted around a polypropylene rigid core thus assuring stability. It is then all placed inside a polypropylene cage which both ends are closed by end caps.

The pleated cartridge allows a vast filtering surface while the PP cage has symmetric slots along all the surface of the cage itself therefore allowing the water to flow equally along all the

sides of the cartridge and avoiding the water penetrating just one specific area. This results in a longer life and major efficiency. The Polyester cartridges, contrary to Cellulose types, can be reused over and over again without loss of efficiency. It is obvious though that the life of these cartridges depend on the working conditions. Even though the maintenance is frequent, It is recommended not to use such cartridges under extreme conditions. Due to the fact that bacteria will undoubtedly grow and nest within the fibre, simply washing a cartridge does not mean it will last forever. Therefore as all washable cartridges, it is recommended to frequently change them in order to guarantee a safe filtration. Thanks to its compatibility with a vast numbers of chemicals, polyester can be used also in specific applications where other materials are not compatible with reagents

and/or chemical solvents.

Regarding the applications of Polyester and Cellulose cartridges, these are particularly adequate for use in potable water because the raw materials used are compatible.

APPLICATIONS

CELLULOSE:

Water treatment - Pharmaceutical/Cosmetics - Galvanic - Paint Industry - Ink Industry - Emulsion

POLYESTER:

Water treatment-Electronic/Nuclear-Biotechnology/Fine chemicals-Food/Beverage-Coatings/Resins-General Industrial-Pharmaceutical/Cosmetics-Bulk chemicals/Petrochemicals

Note:

CE AQUAPRO, PL AQUAPRO, PL-AB AQUAPRO, PL99G, PL FON, PL CL, max flow rate at 20°C and differential pressure 0,15 bar.

QTEC and VTEC max flow rate at 20°C and differential pressure 0,07 bar.

FLOW RATE (lt/h)

MICRON		9"3/4	20"	23"	30"	40"
15	CE AQUAPRO	1800	3400		4000	4000
3	PL AQUAPRO	1000	2000		4000	4000
20	PL AQUAPRO	2000	3600		4200	4400
50	PL AQUAPRO	2500	4300		4600	4800
20	PL AQUAPRO BIG	2300	4300		5000	
50	PL AQUAPRO BIG	2800	4800		5000	
0,6	PL99G	900	1800		2700	3600
1	PL99G	1000	2000		3000	4000
3	PL99G	1200	2400		3600	4200
5	PL99G	1500	3000		4000	4400
10	PL99G	1800	3600		4300	4600
20	PL99G	2200	4000		4600	4800
30	PL99G	2300	4200		4800	5000
50	PL99G	2500	4300		5000	5000
80	PL99G	2600	4500		5000	5000
3	PL BIG ONE			14000		28000
20	PL BIG ONE			22000		44000
50	PL BIG ONE			27000		54000
5	PL CL		14000			28000
20	PL CL		20000			40000
50	PL CL		25000			50000
0,1	QTEC	200	400		600	800
0,2	QTEC	500	1000		1500	2000
0,4	QTEC	1500	3000		4000	4000
0,05	VTEC	20	40		60	80
0,1	VTEC	66	132		198	264
0,2	VTEC	400	800		1200	1600
0,4	VTEC	600	1200		1800	2400
0,6	VTEC	800	1600		2400	3200
1	VTEC	900	1800		2700	3600
0,6	PP99G	900	1800		2700	3600
1	PP99G	1000	2000		3000	4000
5	PP99G	1500	3000		4000	4400
20	PP99G	2200	4000		4600	4800
50	PP99G	2500	4300		5000	5000
80	PP99G	2600	4500		5000	5000
5-20	PP95CL					30000
20-50	PP95CL					45000
5	PL-FIP					30000
20	PL-FIP					40000
5	PP-FIP					30000
20	PP-FIP					40000
1	RLA-PL-FIP					16000
5	RLA-PL-FIP					30000
20	RLA-PL-FIP					40000
1	RLA-PL-FON			8000		
5	RLA-PL-FON			15000		
20	RLA-PL-FON			20000		
1	RLA-PL-FON					16000
5	RLA-PL-FON					30000
20	RLA-PL-FON					40000

PLEATED line surface filtering

CE AQUA PRO

TECHNICAL FEATURES

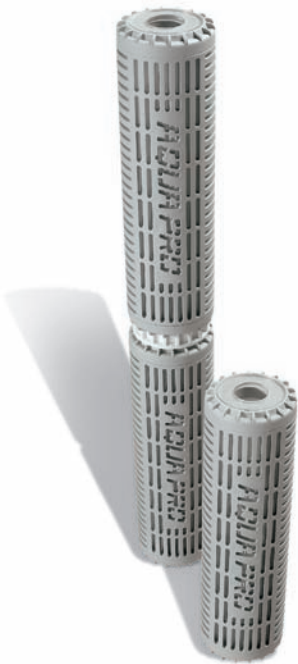
CE AQUA PRO

Raw material:	CELLULOSE
Core:	PP
Outer cage:	PP
End caps:	DOE-PP
O-Ring / Gasket:	NBR
Length:	9"3/4, 20", 30", 40"
Inner diameter:	28 mm
Outer diameter:	70 mm
Micron rating:	15
Efficiency:	85%
Pressure:	
Max working pressure:	6 bar
Max differential pressure:	0,8 bar
Temperature:	
Max working temperature:	65°C

Note: Max water flow rate at 20°C and differential pressure 0,15 bar

PLEATED CELLULOSE CARTRIDGES series CE AQUA PRO

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4070080	15	9"3/4	15	4,30	0,030
A4070100	15	20"	15	8,42	0,035
A4070130	15	30"	20	13,00	0,088
A4070120	15	40"	20	17,20	1,150





PL AQUA PRO

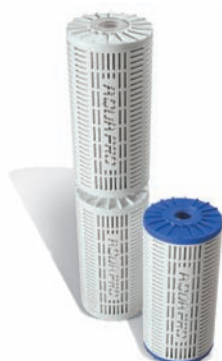
TECHNICAL FEATURES	PL AQUA PRO	PL AQUA PRO BIG	PL BIG ONE
Raw material:	PES	PES	PES
Core:	PP	PP	PP
Outer cage:	PP	PP	-
End caps:	DOE-PP	DOE-PP	FON
O-Ring / Gasket:	NBR	NBR	B, V
Length:	9"3/4-20-30"-40"	9"3/4-20"-30"	23", 40"
Inner diameter:	28 mm	28 mm-38 mm	76 mm
Outer diameter:	70 mm	116 mm	147,5 mm
Micron rating:	3, 20,50	20,50	3, 20, 50
Efficiency:	95%	95%	95%
Pressure:			
Max working pressure:	6 bar	6 bar	6 bar
Max differential pressure:	0,8 bar	0,8 bar	0,8 bar
Temperature:			
Max working temperature:	80°C	80°C	80°C

Note: Max water flow rate at 20°C and differential pressure 0,15 bar



PLEATED POLYESTER CARTRIDGES series PL AQUA PRO

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4080230	3	9"3/4	15	4,70	0,030
A4080140	20	9"3/4	15	4,70	0,030
A4080150	50	9"3/4	15	4,70	0,030
A4080240	3	20"	15	9,07	0,035
A4080160	20	20"	15	9,07	0,035
A4080170	50	20"	15	9,07	0,035
A4080510	3	30"	20	14,00	0,088
A4080520	20	30"	20	14,00	0,088
A4080530	50	30"	20	14,00	0,088
A4080540	3	40"	20	18,00	1,150
A4080550	20	40"	20	18,00	1,150
A4080560	50	40"	20	18,00	1,150



PLEATED POLYESTER CARTRIDGES series PL AQUA PRO BIG

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4080180	20	9"3/4	6	4,32	0,030
A4080190	50	9"3/4	6	4,32	0,030
A4080200	20	20"	6	8,69	0,035
A4080210	50	20"	6	8,69	0,035
A4080570	20	30" D.38	9	12,80	0,088
A4080580	50	30" D.38	9	12,80	0,088



PLEATED POLYESTER CARTRIDGES series PL BIG ONE

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4088010	3	23"	1	1,30	0,021
A4088020	20	23"	1	1,30	0,021
A4088030	50	23"	1	1,30	0,021
A4088040	3	40"	1	2,20	0,033
A4088050	20	40"	1	2,20	0,033
A4088060	50	40"	1	2,20	0,033

PL FIP

TECHNICAL FEATURES

PL FIP

Raw material:	PES
Core:	PP
Outer cage:	-
End caps:	FIP
O-Ring / Gasket:	B, V
Length:	40"
Inner diameter:	76 mm
Outer diameter:	147,5 mm
Micron rating:	5 - 20
Efficiency:	95%
Pressure:	
Max working pressure:	6 bar
Max differential pressure suggested:	0,8 bar
Temperature:	
Max working temperature:	52° C

Type end caps	NBR/N
O-ring options/Code	Viton/V



Note: Max water flow rate at 20°C and differential pressure 0,15 bar

Applications:

Water treatment

Sea water and brackish water

Other applications only after written approval of the manufacturer

Electronic/Nuclear - Biotechnology/Fine chemicals - Food/Beverage - Coatings/Resins
 General Industrial - Pharmaceutical/Cosmetics - Bulk chemicals/Petrochemicals

CARTRIDGES series Pleated Polyester PL FIP

COD	MICRON	LENGTH	QUANTITY	Kg	FLOW	
			box	box	l/h*	
A4088080	5	40"	1	3,60	30000	
A4088090	20	40"	1	3,60	40000	





RLA PL FIP

TECHNICAL FEATURES

RLA PL FIP

Type	Pleated polyester sleeve
Raw material:	PES
Core:	PP
Outer cage:	-
End caps:	FIP
O-Ring / Gasket:	B, V
Length:	40"
Inner diameter:	76 mm
Outer diameter:	147,5 mm
Micron rating:	1 - 5 - 20
Efficiency:	95%
Pressure:	
Max working pressure:	6 bar
Max differential pressure suggested:	0,8 bar
Temperature:	
Max working temperature:	80°C
Type end caps	
O-ring options/Code	NBR/N Viton/V

Note: Max water flow rate at 20°C and differential pressure 0,15 bar



Applications

Water treatment	Sea water and brackish water
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Other applications only after written approval of the manufacturer

Electronic/Nuclear - Biotechnology/Fine chemicals - Food/Beverage - Coatings/Resins
General Industrial - Pharmaceutical/Cosmetics - Bulk chemicals/Petrochemicals

CARTRIDGES series Pleated Polyester Sleeve RLA PL FIP

COD	MICRON	LENGTH	QUANTITY	Kg	FLOW
			box	box	l/h*
A4038050	1	40"	1	3,60	16000
A4038060	5	40"	1	3,60	30000
A4038070	20	40"	1	3,60	40000



RLA PL FON

TECHNICAL FEATURES

RLA PL FON

Type	Pleated polyester sleeve
Raw material:	Polyester
Core:	PP
Outer cage:	-
End caps:	FON
O-Ring / Gasket:	NBR
Length:	23" - 40"
Inner diameter:	76 mm
Outer diameter:	147,5 mm
Micron rating:	1 - 5 - 20
Efficiency:	95%
Pressure:	
Max working pressure:	6 bar
Max differential pressure suggested:	0,8 bar
Temperature:	
Max working temperature:	80°C

Type end caps

O-ring options/Code	NBR/N Viton/V
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Note: Max water flow rate at 20°C and differential pressure 0,15 bar

Applications

Water treatment	Sea water and brackish water
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Other applications only after written approval of the manufacturer

Electronic/Nuclear - Biotechnology/Fine chemicals - Food/Beverage - Coatings/Resins
General Industrial - Pharmaceutical/Cosmetics - Bulk chemicals/Petrochemicals

CARTRIDGES series Pleated Polyester Sleeve RLA PL FON

COD	MICRON	LENGTH	QUANTITY	Kg	FLOW	
			box	box	l/h*	
A4038080	1	23"	1	2,20	8000	
A4038090	5	23"	1	2,20	15000	
A4038100	20	23"	1	2,20	20000	
A4038110	1	40"	1	3,60	16000	
A4038120	5	40"	1	3,60	30000	
A4038130	20	40"	1	3,60	40000	





PL CARTRIDGES

TECHNICAL FEATURES

	PL 99 G	PL CL
Raw material:	PES	PES
Core:	PP	
Outer cage:	PP	
End caps:	DOE, 3, 8, 7	DOE
O-Ring / Gasket:	PVC,S,V,B	
Length:	9"3/4, 20", 30", 40"	20", 40"
Inner diameter:	28 mm	114,3 mm
Outer diameter:	70 mm	152,4 mm
Micron rating:	0,6, 1, 3, 5, 10, 20, 30, 50, 80	5, 20, 50
Efficiency:	99%	95%
Pressure:		
Max working pressure:	6 bar	6 bar
Max diferential pressure:	0,8 bar	0,8 bar
Temperature:		
Max working temperature:	80°C	40°C

PLEATED POLYESTER CARTRIDGES series PL 99 G

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A408G010	0,6	9"3/4	15	4,70	0,030
A408G020	1	9"3/4	15	4,70	0,030
A408G030	3	9"3/4	15	4,70	0,030
A408G040	5	9"3/4	15	4,70	0,030
A408G050	10	9"3/4	15	4,70	0,030
A408G060	20	9"3/4	15	4,70	0,030
A408G070	30	9"3/4	15	4,70	0,030
A408G080	50	9"3/4	15	4,70	0,030
A408G090	80	9"3/4	15	4,70	0,030
A408G100	0,6	20"	15	9,10	0,035
A408G110	1	20"	15	9,10	0,035
A408G120	3	20"	15	9,10	0,035
A408G130	5	20"	15	9,10	0,035
A408G140	10	20"	15	9,10	0,035
A408G150	20	20"	15	9,10	0,035
A408G160	30	20"	15	9,10	0,035
A408G170	50	20"	15	9,10	0,035
A408G180	80	20"	15	9,10	0,035
A408G190	0,6	30"	15	14,00	0,088
A408G200	1	30"	15	14,00	0,088
A408G210	3	30"	15	14,00	0,088
A408G220	5	30"	15	14,00	0,088
A408G230	10	30"	15	14,00	0,088
A408G240	20	30"	15	14,00	0,088
A408G250	30	30"	15	14,00	0,088
A408G260	50	30"	15	14,00	0,088
A408G270	80	30"	15	14,00	0,088
A408G280	0,6	40"	15	18,00	1,15
A408G290	1	40"	15	18,00	1,15
A408G300	3	40"	15	18,00	1,15
A408G310	5	40"	15	18,00	1,15
A408G320	10	40"	15	18,00	1,15
A408G330	20	40"	15	18,00	1,15
A408G340	30	40"	15	18,00	1,15
A408G350	50	40"	15	18,00	1,15
A408G360	80	40"	15	18,00	1,15

PLEATED POLYESTER CARTRIDGES series PL CL

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4089010	5	20"	1	0,80	0,021
A4089020	20	20"	1	0,80	0,021
A4089030	50	20"	1	0,80	0,021
A4089040	5	40"	1	1,60	0,033
A4089050	20	40"	1	1,60	0,033
A4089060	50	40"	1	1,60	0,033

Note: on request other micron rating are available.




PP CARTRIDGES

TECHNICAL FEATURES


	PP 99 G	PP 95 CL
Raw material:	100% PP	100% PP
Core:	100% PP	100% PP
Outer cage:	100% PP	
End caps:	DOE, 3, 8, 7	DOE
O-Ring / Gasket:	B, S, V.	
Length:	9"3/4, 20", 30", 40"	40"
Inner diameter:	28 mm	114,3 mm
Outer diameter:	70 mm	152,4 mm
Micron rating:	0,6, 1, 5, 20, 50, 80	5-20, 20-50
Efficiency:	99%	95%
Pressure:		
Max working pressure:	6 bar	6 bar
Max diferential pressure:	0,8 bar	0,8 bar
Temperature:		
Max working temperature:	80°C	40°C

PLEATED POLYPROPYLENE CARTRIDGES series PP 99 G



COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
A451G010			box	box	package
A451G020	0,6	9"3/4	15	6	0,035
A451G030	1	9"3/4	15	6	0,035
A451G040	5	9"3/4	15	6	0,035
A451G050	20	9"3/4	15	6	0,035
A451G060	50	9"3/4	15	6	0,035
A451G070	80	9"3/4	15	6	0,035
A451G080	0,6	20"	15	12	0,059
A451G090	1	20"	15	12	0,059
A451G100	5	20"	15	12	0,059
A451G110	20	20"	15	12	0,059
A451G120	50	20"	15	12	0,059
A451G130	80	20"	15	12	0,059
A451G140	0,6	30"	15	18	0,082
A451G150	1	30"	15	18	0,082
A451G160	5	30"	15	18	0,082
A451G170	20	30"	15	18	0,082
A451G180	50	30"	15	18	0,082
A451G190	80	30"	15	18	0,082
A451G200	0,6	40"	15	24	1,05
A451G210	1	40"	15	24	1,05
A451G220	5	40"	15	24	1,05
A451G230	20	40"	15	24	1,05
A451G240	50	40"	15	24	1,05
	80	40"	15	24	1,05

PLEATED POLYPROPYLENE CARTRIDGES series PP 95 CL



COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4519010	5-20	40"	1	3,50	0,033
A4519020	20-50	40"	1	3,50	0,033

PP FIP

TECHNICAL FEATURES

PP FIP

Raw material:	Pleated polypropylene
Core:	PP
Outer cage:	-
End caps:	FIP
O-Ring / Gasket:	NBR - VITON
Length:	40"
Inner diameter:	76 mm
Outer diameter:	147,5 mm
Micron rating:	5 - 20
Efficiency:	95%
Pressure:	
Max working pressure:	6 bar
Max differential pressure suggested:	0,8 bar
Temperature:	
Max working temperature:	52°C

Note: Max water flow rate at 20°C and differential pressure 0,15 bar



Applications

Water treatment	Sea water and brackish water
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CARTRIDGES series Pleated Polypropylene PP FIP

COD	MICRON	LENGTH	QUANTITY	Kg	FLOW
			box	box	l/h*
A4088100	5	40"	1	3,60	30000
A4088110	20	40"	1	3,60	40000



**WASHABLE NET
CARTRIDGES**

The washable Net Cartridges are called surface cartridges and have a non-deforming structure.

The inside core is manufactured using Talc Filled Polypropylene and a nylon net is welded.

The homogenous Net has physical and mechanical characteristics. The square mesh allows a uniform flow along all the surface of the cartridge itself thus minimizes the possibility of clogging. Manufactured using monofilament fibres that enable uniform openings It also allows an accurate capacity of filtration while avoiding pressure drop.

Also thanks to Its smooth surface it is very easy to wash and non shedding.

The washable net cartridges give a nominal filtration with efficiency of 80%. When properly utilized, they can be used over and over again maintaining a constant efficiency.

The available lengths range from 5" to 20" and the microns range from a minimum of 90 micron upwards. All in compliance to EC regulations.

**THE WASHABLE NET
CARTRIDGE IS IDEAL FOR:**
Suspended Solids, Sand, Slime, Rust.

APPLICATIONS:
Water treatment,
General Industry,
Agricultural,
Water pumps and Domestic applications.

FLOW RATE (lt/h)		9"3/4	20"	23"	30"	40"
MICRON						
80	RLA-AB, D.38mm	6000	7000		8000	
250	RLA-AB, D.38mm	6500	7800		9000	
80	RLA BIG ONE			34000		60000
250	RLA BIG ONE			37000		65000
80	RLA-FIP					50000
250	RLA-FIP					50000

RLA line
surface filtration

RLA

TECHNICAL FEATURES

	RLA AB	RLA BIG ONE
Raw material:	PA	PA
Core:	PP	PP
Outer cage:	PP	PP
End caps:	DOE-PP	FON
O-Ring / Gasket:	NBR	B, V
Length:	9"3/4, 20", 30"	23", 40"
Inner diameter:	36 mm	76 mm
Outer diameter:	115 mm	147,5 mm
Micron rating:	80, 250	80, 250
Efficiency:	80%	80%
Pressure:		
Max working pressure:	6 bar	6 bar
Max diferential pressure:	0,8 bar	0,8 bar
Temperature:		
Max working temperature:	80°C	80°C

Note: Max water flow rate at 20°C and diferential pressure 0,15 bar

WASHABLE NET CARTRIDGES series RLA AB

COD	MICRON	LENGTH	QUANTITY	Kg	FLOW
			box	box	l/h*
A4030510	80	9"3/4"	6	6	0,030
A4030520	250	9"3/4"	6	6	0,030
A4030530	80	20"	6	6	0,035
A4030540	250	20"	6	6	0,035
A4030550	80	30"	-	9	0,088
A4030560	250	30"	-	9	0,088

WASHABLE NET CARTRIDGES series RLA BIG ONE

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4038010	80	23"	1	2,00	0,021
A4038020	250	23"	1	2,00	0,021
A4038030	80	40"	1	3,30	0,033
A4038040	250	40"	1	3,30	0,033

RLA FIP

TECHNICAL FEATURES

RLA FIP

Raw material:	Nylon Net
Core:	PP
Outer cage:	-
End caps:	FIP
O-Ring / Gasket:	NBR - VITON
Length:	40"
Inner diameter:	76 mm
Outer diameter:	147,5 mm
Micron rating:	80 - 250
Efficiency:	80%
Pressure:	
Max working pressure:	6 bar
Max differential pressure suggested:	0,8 bar
Temperature:	
Max working temperature:	80°C

Note: Max water flow rate at 20°C and differential pressure 0,15 bar



CARTRIDGES series Nylon Net RLA FIP

COD	MICRON	LENGTH	QUANTITY	Kg	FLOW
			box	box	l/h*
A4038140	80	40"	1	3,20	50000
A4038150	250	40"	1	3,20	50000





STAINLESS STEEL CARTRIDGES

Stainless steel net cartridges are so-called "surface cartridges" with non deforming structure.

They are well indicated for difficult applications such as filtering of corrosive liquids or where high temperatures apply.

They are available in the following versions.
- Series AC75S; non-pleated stainless steel with end caps in stainless steel
- Series AC75PS; pleated stainless steel with end caps in stainless steel

Because of its structure, stainless steel has no particle migration therefore especially suitable for those applications where drinkable water is being processed.

Being pleated, the AC75PS series grant a much higher surface of filtration in the amount of 4 times a standard AC75S version which are non-pleated. Therefore they are more efficient when high flow is required and where a high percentage of contaminated particles are present in the liquid itself.

The Stainless steel net has a special structure called REPS that thanks to its characteristics makes it very strong and of high filtering efficiency. All end caps are electrically welded and no resin or glues are used.

Pleated stainless steel cartridges, series AC75PS can withstand pressures of 6 bars without deforming. In any case it is always suggested not to exceed 3 bars.

All stainless steel cartridges are washable and therefore can be used time and time again. It can be done by backwashing them or washed with special chemicals.

APPLICATIONS:

Water Treatment,
Food and beverage, Oil, Alimentary, Syrups
General Industries, Paint, resins,
Bulk chemicals/Petrochemicals, polymer,
fuel, lubricant,
Sewage water.

FLOW RATE (lt/h)

MICRON		9"3/4	20"	23"	30"	40"
5	AC75S	600	1200		1800	2400
25	AC75S	2000	4000		5000	5000
70	AC75S	2500	5000		5000	5000
100	AC75S	2700	5000		5000	5000
5	AC75PS	800	1600		2400	3200
25	AC75PS	2500	5000		5000	5000
70	AC75PS	2700	5000		5000	5000
100	AC75PS	2800	5000		5000	5000

AC75S- AC75PS line surface filtration

STAINLESS STEEL AC

TECHNICAL FEATURES	AC 75 S	AC 75 PS
Raw material:	SS	SS
Core:	AISI 304	AISI 304
Outer cage:	—	—
End caps:	DOE	AISI 304 - DOE
O-Ring / Gasket:	B, V, T.	B, V, T
Length:	9"3/4 - 20" - 30" - 40"	9"3/4-20"-30"-40"
Inner diameter:	27 mm	27 mm
Outer diameter:	70 mm	70 mm
Micron rating:	5, 25, 70, 100	5, 25, 70, 100
Efficiency:	75%	75%
Pressure:		
Max working pressure:	6 bar	6 bar
Max diferential pressure:	0,8 bar	0,8 bar
Temperature:		
Max working temperature:	80°C - 360°C	80°C - 360°C

Note: Max water flow rate at 20°C and differential pressure 0,15 bar

STAINLESS STEEL CARTRIDGES series AC 75 S

			box
A4050500	5	9"3/4	6
A4050510	25	9"3/4	6
A4050520	70	9"3/4	6
A4050530	100	9"3/4	6
A4050540	5	20"	6
A4050550	25	20"	6
A4050560	70	20"	6
A4050570	100	20"	6
A4050580	5	30"	6
A4050590	25	30"	6
A4050600	70	30"	6
A4050610	100	30"	6
A4050620	5	40"	6
A4050630	25	40"	6
A4050640	70	40"	6
A4050650	100	40"	6

STAINLESS STEEL CARTRIDGES series AC 75 PS - AISI 304 end caps

			box
A405050P	5	9"3/4	6
A405051P	25	9"3/4	6
A405052P	70	9"3/4	6
A405053P	100	9"3/4	6
A405054P	5	20"	6
A405055P	25	20"	6
A405056P	70	20"	6
A405057P	100	20"	6
A405058P	5	30"	6
A405059P	25	30"	6
A405060P	70	30"	6
A405061P	100	30"	6
A405062P	5	40"	6
A405063P	25	40"	6
A405064P	70	40"	6
A405065P	100	40"	6





CARBON CARTRIDGES

These Cartridges act by means of a physicochemical property of the active carbon (adsorption) and in some cases associated with the filtration action of various filtering materials.

AQUA uses various active granulated carbon, suggesting the most appropriate types according to the conditions and diverse needs of filtering required. Our active granulated carbon extracted from vegetable coco fruit has characteristics that are very suitable for treating water in general.

These active carbon cartridges have the following specifications:

Grain Hardness

- = Insignificance presence of Carbon Powder Residuals.

Very high surface filtration area

- (up to 1500m²/gr)
- = High Adsorption
- = Longer life

Very high Holding Capacity

- = High Adsorption

Insignificant presence of ash

- = Less impurity

The general characteristics in understanding what makes a very efficient carbon cartridge are the following:

- Pre-Filtration

Treatment of water beforehand, through a pre-filtration action which permits a first treatment of the water itself allowing a longer life to the cartridge

- Absorption performance of the carbon

It is determined by the quality and quantity of carbon used. Also the contact time has a very important impact on the final result. In fact the longer the water remains in contact with the carbon (flow rate) the stronger the carbon adsorption effect will be, thus purifying the water.

- Post-Filtration

Treatment of water after hand, through a post-filtration action which permits a further treatment of the water itself and eliminating any suspended carbon residuals

Having all three the above elements will no doubt reduce the flow rate. This means a better performance of the process because it optimises the active carbon action. Active carbon will in the end saturate and the life time depends on how the cartridge is being used. We highly recommend following the instructions on our data sheet relevant to each type of carbon cartridge.

Thanks to the exceptional quality of our Melt Blown Pre & Post filtration, our GAC active carbon cartridges guarantee a perfect and superior quality cartridge. These pre & post filters not only will withhold all suspended particles and carbon fines but also will regulate the water flow thus assuring a perfect removal of chlorine. Laboratory tests confirm the excellent quality of our GAC Cartridge.

APPLICATIONS

Water treatment
Electronic/Nuclear
Biotechnology/Fine chemicals
Food/Beverage
General Industrial
Pharmaceutical/Cosmetics
Bulk chemicals/Petrochemicals

GAC line

carbon cartridges

active carbon

TECHNICAL FEATURES

GAC-CC-BIG

CTO-E-BIG

Filter media:	G.A.C. – Acid washed Coconut shell granular active carbon	ACTIVE CARBON BLOCK
Pre filter:	PP	PES
Post filter:	PP	PES
Core:	-	-
Out cage:	PP	-
End caps:	DOE-PP	DOE-PP
O-Ring / Gasket:	NBR	-
Length:	9"3/4-20"	9"3/4-20"
Inner diameter:	26 mm	36 mm
Outer diameter:	120 mm	115 mm
Micron rating:		
Pre filter micron	40	10
Post filter micron	40	-
Efficiency (pre and post filter):	95%	95%
Pressure:		
Max working pressure:	6 bar	6 bar
Max differential pressure:	0,8 bar	0,8 bar
Temperature:		
Max working temperature:	50°C	50°C

Note: Max water flow rate at 20°C and differential pressure 0,15 bar

ACTIVE CARBON CARTRIDGES series GAC-40 CC BIG
GRANULAR-ACTIVATED CARBON / PRE-POST 40 MICRON FILTER

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4120620	40	9"3/4	6	8,28	0,030
A4120630	40	20"	6	16,02	0,035

CHLORINE REDUCTION:

MODEL	LENGTH	RECOMMENDED FLOW RATE	FLOW RATE
		m ³ /h	Chlorine reduction
GAC-40 CC BIG	9"3/4	8 lpm at 0,2 bar	20.000 l at 8 lpm
GAC-40 CC BIG	20"	14 lpm at 0,4 bar	40.000 l at 14 lpm

All chlorine reduction is from 2 ppm free chlorine to < 0,5 ppm.
Some data is extrapolated

CARBON BLOCK CARTRIDGES series CTO-E for AQUA BIG

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4220110	10	9"3/4	12	18	0,053
A4220120	10	20"	6	18	0,053

CHLORINE REDUCTION:

MODEL	LENGTH	RECOMMENDED FLOW RATE	FLOW RATE
		m ³ /h	Chlorine reduction
CTO-E-BIG	9"3/4	8 lpm a 0,2 bar	25.000 at 8 lpm
CTO-E-BIG	20"	14 lpm a 0,4 bar	50.000 at 14 lpm

All chlorine reduction is from 2 ppm free chlorine to < 0,5 ppm.
Some data is extrapolated





RESIN CARTRIDGES

Cartridges with ionic exchange resin are used for eliminating ionic substance which are present in water.

According to the type of filter media used, they can be applied for treating water with calcium and magnesium, reducing the presence of iron and obtain de-mineralized water.

All cartridges are assembled with a pre and post filtration. This optimizes the efficiency of the resin for water inbound and improves the quality of the treated water outbound.

Similar to the GAC cartridges, the Pre & post filters are made of melt blown which is of the same technology used for our FR-N cartridges. This technology guarantees a very efficient filtering action.

APPLICATIONS:

- Water Treatment
- General Industries
- Laboratory

FLOW RATE (lpm)						
MODEL	length	recommended flow rate	min. total exchange capacity			
					Na+Form	
				eq/l	1,9	
RC-BIG	9"3/4	4,5 lpm	cation exchange resin	Kgr/ft3 as CaCo3	41,5	
RC-BIG	20"	8 lpm				
R-DEMI BIG	9"3/4	2,5 lpm				
R-DEMI BIG	20"	4,7 lpm				
FE-BIG	20"	24 lpm	ion exchange resin		OH+Form	H + Form
				eq/l	1,0	1,8
				Kgr/ft3 as CaCO3	21,9	39,3

resin line
special cartridges

resin

TECHNICAL FEATURES	RC-BIG	R-DEMI BIG	FE-BIG
Filter media:	CATION RESIN	MIX BED RESIN	SILICA CRYSTALS
Pre filter:	PP	PP	PP
Post filter:	PP	PP	PP
Core:	-	-	-
Out cage:	PP	PP	PP
End caps:	DOE-PP	DOE-PP	DOE-PP
O-Ring / Gasket:	NBR	NBR	NBR
Length:	9"3/4-20"	9"3/4-20"	9"3/4-20"
Inner diameter:	26 mm	26 mm	26 mm
Outer diameter:	120 mm	120 mm	120 mm
Micron rating:			
Pre filter micron	5	5	40
Post filter micron	5	5	40
Efficiency (pre and post filter):	95%	95%	95%
Pressure:			
Max working pressure:	6 bar	6 bar	6 bar
Max differential pressure:	0,8 bar	0,8 bar	0,8 bar
Temperature:			
Max working temperature:	38°C	38°C	38°C

Note: Max water flow rate at 20°C and differential pressure 0,15 bar

CATION EXCHANGE RESIN CARTRIDGES series RC-BIG / PRE-POST 5 MICRON FILTER

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4150050	5	9"3/4	6	12,13	0,030
A4150060	5	20"	6	28,50	0,035

IONIC EXCHANGE RESIN CARTRIDGES series R-DEMI-BIG / PRE-POST 5 MICRON FILTER

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4150090	5	9"3/4	6	12,13	0,030
A4150100	5	20"	6	28,10	0,035

IRON REMOVAL CARTRIDGES series FE / PRE-POST 40 MICRON FILTER

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4150110	40	20"	6	28,10	0,035

APPROXIMATE LIFE OF CARTRIDGE

iron level in water	total lt water used	1000 lt day 4 people	500 lt day 2 people
5 ppm	60.000	60 days	120 days
4 ppm	83.000	83 days	166 days
3 ppm	105.000	105 days	210 days
2 ppm	158.000	158 days	316 days
1 ppm	310.000	310 days	620 days
0,5 ppm	620.000	620 days	1.240 days

Note (1): in order to use silica crystals, the following characteristics are required:

- minimum water hardness of 5°Fr.
- minimum 80 mg/l TDS (total dissolved solids)

Note (2): high iron concentration inside the water may cause unpleasant taste and smell. In this case it's advisable to use an active carbon cartridge, series GAC-CC-BIG.





1 = RECCOMENDED
2 = SUITABLE
3 = NOT RECCOMENDED

	TEMPERATURE	% CONCENTRATION	POLYPROPYLENE	POLYAMIDE	POLYESTER	POLYPROPYLENE TF	SAN	POLYPROPYLENE GF	ABS	VITON	PVC	AISI 304
MINERAL ACID												
HYDROCHLORIC ACID		20	1	3	1	1	1	1	2	1	1	3
CHROMIC ACID		30	1	2	1	*	*	*	*	1	1	2
HYDROFLUORIC ACID		40	1	3	2	1	*	A	A	1	3	3
PHOSPHORIC ACID		50	1	3	1	1	*	1	2	2	1	2
NITRIC ACID		10	1	3	2	1	2	1	3	1	1	1
SULPHURIC ACID		25	2	3	3	2	1	2	2	1	1	3
ACQUA REGIA			3	3	2	3	3	3	2	2	1	3
ORGANIC ACID												
ACETIC ACID		50	1	3	1	1	1	1	3	3	3	1
BENZOIC ACID			1	2	1	1	*	1	*	1	1	2
BUTYRIC ACID		80	1	1	1	1	*	1	*	2	3	2
FORMIC ACID			1	3	1	1	*	1	*	*	2	2
LACTIC ACID		25	1	3	1	1	*	1	*	1	2	2
OLEIC ACID			2	1	1	2	*	2	*	2	1	2
OXALIC ACID			2	3	1	2	*	2	*	1	1	2
SALICYLIC ACID			1	1	2	1	*	1	*	1	1	*
SALTS												
SODIUM ACETATE			1	1	1	1	*	1	*	3	1	1
SODIUM BENZOATE			1	2	1	1	*	1	*	*	1	*
SODIUM BISULPATE			1	1	1	1	1	1	1	1	1	1
SODIUM BROMIDE			1	2	1	1	*	1	*	1	1	*
SODIUM CHYANID			1	2	1	1	*	1	*	1	1	1
ALUMINIUM CHLORIDE			1	1	1	1	*	1	*	1	1	3
AMMONIUM CHLORIDE			1	1	1	1	*	1	*	1	1	3
BARIUM CHLORIDE			1	1	1	1	*	1	*	1	1	2
CALCIUM CHLORIDE			1	1	1	1	*	1	*	1	1	2
FERRIC CHLORIDE			1	1	1	1	*	1	*	1	1	3
MAGNESIUM CHLORIDE			1	1	1	1	*	1	*	1	1	2
SODIUM CHLORIDE			1	1	1	1	*	1	*	1	1	2
ZINC CHLORIDE			1	1	1	1	*	1	*	1	1	2
SODIUM NITRATE			1	2	1	1	*	1	*	2	1	1
ALUMINIUM SULPHATE			1	1	1	1	*	1	*	1	1	3
COPPER SULPHATE			1	1	1	1	*	1	*	1	1	2
SODIUM SULPHATE			1	1	1	1	*	1	*	1	1	2
SODIUM SULPHIDE			1	1	1	1	*	1	*	1	1	3
BASE												
CALCIUM CARBONATE			1	1	1	1	*	1	*	1	1	1
POTASSIUM CARBONATE			1	1	1	1	*	1	*	1	2	2
SODIUM CARBONATE			1	1	2	1	*	1	*	1	1	1
AMMONIUM HYDROXIDE			1	1	1	1	*	1	*	2	1	1
CALCIUM HYDROXYDE			1	1	1	1	*	1	*	1	1	1
POTASSIUM HYDROXYDE			1	2	3	1	*	1	*	2	1	2
SODIUM HYDROXYDE		50	1	2	3	1	*	1	*	2	1	1
OXIDIZING AGENTS												
PERACET ACID		40	1	2	2	1	*	1	*	1	3	*
POTASSIUM BICHROMATE			1	2	1	1	*	1	*	1	1	1
BROMINE			3	3	2	3	*	3	*	2	2	3
SODIUM CHLORITE			1	3	3	1	*	1	*	1	1	2
POTASSIUM CHLORITE			1	2	2	1	*	1	*	1	1	1
CHLORINE			3	3	2	3	*	3	*	1	1	3

	TEMPERATURE	% CONCENTRATION	POLYPROPYLENE	POLYAMIDE	POLYESTER	POLYPROPYLENE TF	SAN	POLYPROPYLENE GF	ABS	VITON	PVC	AISI 304
FLUORINE			3	3	2	3	*	3	*	2	*	3
SODIUM HYPOCHLORITE		5	1	1	1	1	1	1	2	1	1	2
OZONO			2	3	1	2	*	2	*	1	2	*
POTASSIUM PERMANGANATE		10	1	3	1	1	*	1	*	1	1	2
HYDROGEN PEROXIDE		30	1	3	1	1	*	1	*	1	1	2
IODINE SOLUTION			1	3	2	1	*	1	*	1	3	3
CALCIUM HYPOCHLORITE		20	1	3	1	1	*	1	*	2	1	3
ORGANIC SOLVENTS												
AMYL ACETATE			1	2	1	1	*	1	*	3	3	1
BUTYL ACETATE			2	1	1	2	*	2	*	3	3	1
ETHYL ACETATE			2	1	1	2	*	2	*	3	3	2
ACETONE		100	1	1	1	1	3	1	3	3	3	1
AMYL ALCOHOL			1	1	1	1	3	1	3	2	2	1
ETHIL ALCOHOL		90	1	1	1	1	2	1	2	1	2	1
METHYL ALCOHOL		100	1	1	1	1	3	1	3	2	2	1
BENZENE		100	2	1	1	2	3	2	3	1	3	2
CARBON BISULFIDE			3	1	2	3	3	3	*	1	3	3
CYCLOHEXANONE			2	1	1	2	*	2	*	3	3	*
CHLOROFORM			3	3	1	3	*	3	*	2	3	1
ETHIL CHLORIDE			2	1	1	2	*	2	*	1	3	1
ETHER BENZENE			3	1	1	3	3	3	3	3	3	2
ETHYL ETHER			2	1	1	2	3	2	3	3	3	2
DIETHYLENE GLYCOL			1	1	2	1	*	1	*	1	*	1
ETHYLENE GLYCOL			2	1	1	2	3	2	3	1	1	1
PROPYLENE GLYCOL			3	1	1	3	3	3	3	1	*	1
METHYL ETHYL KETONE			2	1	1	2	3	2	3	3	3	1
CARBON TETRACHLORIDE			3	1	1	3	3	3	3	2	3	1
TOLUENE			3	1	1	3	3	2	3	2	3	1
TRICHLOROETHYLENE			2	2	1	2	3	2	3	1	3	1
XYLENE			3	1	1	3	3	3	3	1	3	1
MISCELLANEOUS												
ACETALDEHIDE IN WATER			2	2	2	2	*	2	*	*	*	1
ANILINE			2	1	1	2	*	2	*	2	3	1
BENZALDEHYDE IN WATER			2	2	1	2	3	2	3	3	3	1
CRESOL			3	3	2	3	3	3	3	2	3	1
PHENOL			2	3	3	2	3	2	3	1	2	2
FORMALDEHYDE		40	1	1	1	1	*	1	*	3	2	1
GLYCERINE			1	1	1	1	1	1	2	1	1	1
NAPHTHA			2	1	1	2	3	2	*	1	3	1
NITROBENZENE			1	2	2	1	3	1	*	2	3	1
MINERAL OIL			2	1	1	2	1	2	1	1	1	1
TRICRESYL PHOSPHATE			3	1	1	3	*	3	*	2	3	1
BEER			1	3	1	1	1	1	2	1	1	1
INKS			1	1	1	1	2	1	2	1	1	1
OLIVE OIL			1	1	1	1	1	1	1	1	1	1
SEA WATER			1	1	1	1	2	1	1	1	1	3
WINE			1	1	1	1	1	1	1	1	1	1
WHISKEY			1	1	1	1	1	1	1	1	1	1
MILK			1	1	1	1	1	1	1	1	1	1



FILTER MEDIA

CODE	DESCRIPTION	PACKAGING	FA	
MC010010	COCO SHELL GRANULAR-ACTIVE CARBON 12X30 ACID WASHED	KG	25	
MC020030	POWDER POLYPHOSPHATE SALTS	KG	25	
MC020010	FINE GRANULAR POLYPHOSPHATE SALTS	KG	25	
MC030120	SOFTENER CATION RESIN (KG. 20)	KG	25	
MC030160	MIX BED RESIN (KG. 20)	LT	25	
MC030400	IRON REMOVAL (Silica crystals) (KG. 22,7)	LT	25	
		LT	28	

Warranty

All the articles produced by Aqua are under warranty for a period of one year from the date of purchase. The terms of warranty require that:

- The article be used following the instructions printed by the manufacturer, Aqua.
- Installation and maintenance be carried out following the instructions of the manufacturer, Aqua.
- Goods under warranty be replaced only upon submission of faulty material and upon verification of the nature of the defect, which will be considered in light of technical data available from the data-base in the Aqua engineering department, where the results of daily product testing are recorded.
- Warranty be limited to replacement of the faulty part only, to the exclusion of any other claim by the customer for direct or indirect damages caused by the product.
- The customer pay all labor and transport expenses necessary for replacement of the part covered by the warranty.
- Any warranty on Aqua products be suspended upon failure to comply with the general regulations printed by the manufacturer, or failure to comply with the relevant European regulations in force.

General Sales Terms

- 1) Aqua accepts only written orders and reserves the right to confirm all orders.
- 2) Failure to comply with sales terms, including payment for the goods sold, will automatically result in the suspension of any delivery underway or any previously accepted orders.
- 3) The goods are sold EX FACTORY, meaning that the customer is authorized to collect the goods in the way deemed appropriate.
- 4) In the absence of specific instructions, Aqua will dispatch the goods at their own discretion.
- 5) Aqua accept no liability for the goods after they have left the Aqua warehouses, therefore whoever picks up the goods will have to check to make sure the packages are in good condition and that there is the correct number of pieces, notwithstanding of the type of packing used.
- 6) Aqua reserve the right to make changes in the technical specifications and prices of its products, without providing advance notification.
- 7) Any litigation that may arise will be judged by the Competent Court of Reggio Emilia, the applicable law and the Italian law.

