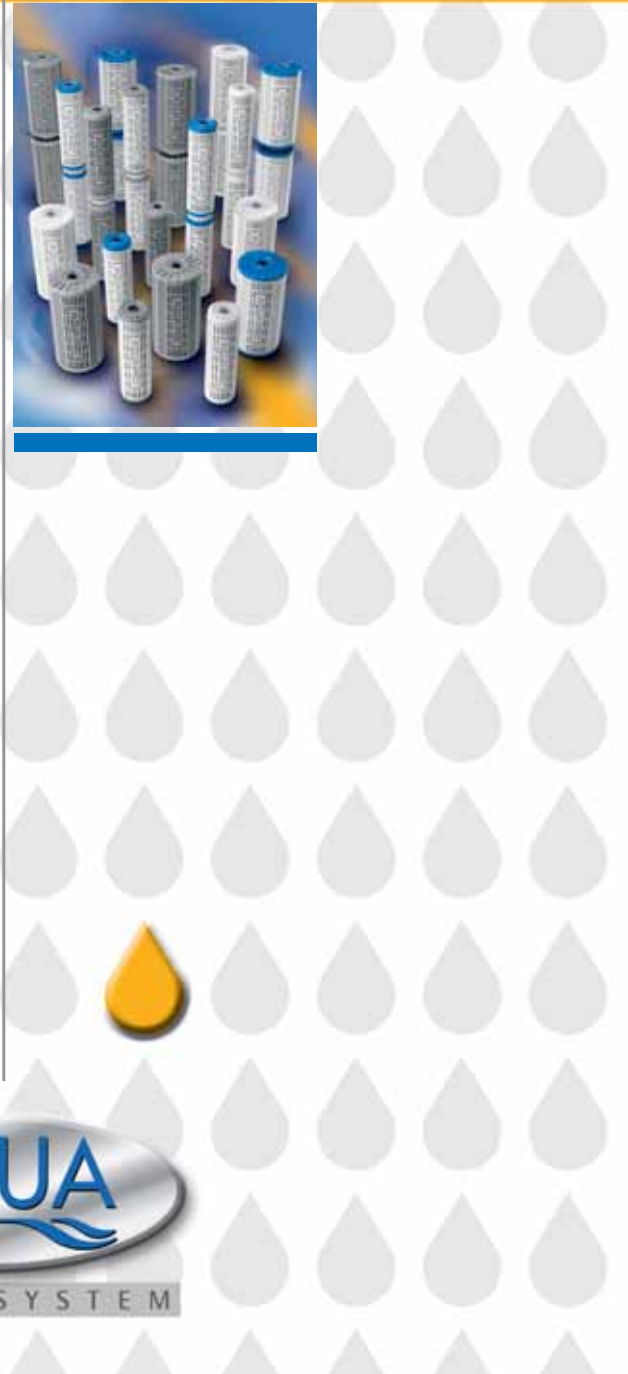




RESIDENTIAL CARTRIDGE







From simple to complex filtration, all of them require a profound analysis.

To understand "WHY" and "WHAT" will mean having the most appropriate answer to "cost/quality" effectiveness.

Bare in mind that filtration will always have a cost that can be minor or major. All depends on the end result one wishes to obtain.

Therefore it is very important to carefully analyse beforehand all the elements involved that originate the need to filter. This will no doubt help achieve the most adequate and correct solution for each case.

The concern of contaminated liquids are various and have many aspects. From everyday drinking water to industrial food processing plants, health risk and economic loss make filtration an extremely important factor.

**Choosing a specific filtering solution**

**rather than another means having well evaluated in advance important factors.**

**These factors are:**

- **Type of liquid to be processed**
- **Particle size**
- **Dirt loading capacity**
- **Media permeability**
- **Pressure drop**
- **Chemical compatibility**
- **Temperature resistance**

**Other factors:**

- **Cost/Quality effectiveness**
- **Maintenance**

Over the years AQUA Srl has made research development its main goal. Finding the best solution to the aspects of filtration can only be achieved through heavy investments in technology and research. We are today able to satisfy all the market needs and

requirements.

Our new Cartridge Product Guide presents a vast amount of filtering elements that defer in material used and sizes. A wide range of products, that along with our Filter Product Guide, make us today a full line manufacturer. All products are strictly made in compliance to the Health & Security regulations.

AQUA Srl exports its products in all the 5 continents, to those customers that work in various applications and markets. A must for those that emphasize filtration a major role in their business activity.

Our leading role today is not only to present a wide range but also to be able to suggest and determine together with our users the most appropriate solution for any application.

## 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.



AQUA CARTRIDGE



AQUA CARTRIDGE



COMPETITOR CARTRIDGE



COMPETITOR CARTRIDGE

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.

### 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

FLOW RATE (lt/h)		9"3/4	20"	30"	40"
1	FRN	800	1400	2000	2600
1	FRN-BIG	800	1400		
3	FRN	1100	2000	3000	4000
5	FRN	1500	2700	3800	4800
5	FRN-BIG	1500	2700		
10	FRN	2000	3600	5000	6400
20	FRN	2500	4500	6200	8000
20	FRN-BIG	2500	4500		
30	FRN	2600	4600	6500	8000
50	FRN	2600	4600	6500	8000
50	FRN-BIG	2600	4600		
90	FRN	2700	4800	6800	8000
5-20	BIG-DG	1800	3200		
20-50	BIG-DG	2700	4800		

# FR-N line

## depth cartridges



# FR-N

## TECHNICAL FEATURES

## FR-N

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

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

## MELT BLOWN CARTRIDGES series FR-N

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4240090	1	5"	140	10,90	0,075	
A4240100	3	5"	140	10,90	0,075	
A4240110	5	5"	140	10,90	0,075	
A4240120	10	5"	140	10,90	0,075	
A4240130	20	5"	140	10,90	0,075	
A4240140	30	5"	140	10,90	0,075	
A4240150	50	5"	140	12,00	0,075	
A4240160	90	5"	140	12,00	0,075	
A4240250	1	9"3/4	60	10,5	0,075	
A4240260	3	9"3/4	60	10,5	0,075	
A4240270	5	9"3/4	60	12,00	0,075	
A4240280	10	9"3/4	60	12,00	0,075	
A4240290	20	9"3/4	60	12,00	0,075	
A4240300	30	9"3/4	60	12,00	0,075	
A4240310	50	9"3/4	60	14,00	0,075	
A4240320	90	9"3/4	60	14,00	0,075	
A4240330	1	10"	60	12,00	0,075	
A4240340	3	10"	60	12,00	0,075	
A4240350	5	10"	60	12,00	0,075	
A4240360	10	10"	60	12,00	0,075	
A4240370	20	10"	60	12,00	0,075	
A4240380	30	10"	60	12,00	0,075	
A4240390	50	10"	60	14,00	0,075	
A4240400	90	10"	60	14,00	0,075	
A4240410	1	20"	30	12,70	0,075	
A4240420	3	20"	30	12,70	0,075	
A4240430	5	20"	30	12,70	0,075	
A4240440	10	20"	30	12,70	0,075	
A4240450	20	20"	30	12,70	0,075	
A4240460	30	20"	30	12,70	0,075	
A4240470	50	20"	30	14,00	0,075	
A4240480	90	20"	30	14,00	0,075	
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	



TECHNICAL FEATURES	FR-N KID	FR-N MINI	FR-N MICRO	FR-N BIG	FR-N BIG (dual grad.)
Raw material:	100% PP				
Core:					
Outer cage:	—	—	—	—	—
End caps:	DOE	DOE	DOE	DOE	DOE
O-Ring / Gasket:	—	—	—	—	—
Length:	5"	100 mm	53 mm	9"3/4-20"	9"3/4-20"
Inner diameter:	28 mm	18 mm	18 mm	28 mm	28 mm
Outer diameter:	50 mm	25 mm	25 mm	114 mm	120 mm
Micron rating:	1/5/20	1/5/20	1/5/20	1/5/20/50	5-20/20-50
Efficiency:	95%	95%	95%	95%	95%
Pressure:					
Max working pressure:	6 bar	6 bar	6 bar	6 bar	6 bar
Max diferential pressure:	0,8 bar	0,8 bar	0,8 bar	0,8 bar	0,8 bar
Temperature:					
Max working temperature:	80°C	80°	80°C	80°C	80°

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

#### MELT BLOWN CARTRIDGES series FR-N AQUA KID

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A424K010	1	5"	225	13,70	0,093
A424K020	5	5"	225	13,70	0,093
A424K030	20	5"	225	13,70	0,093
A424K040	1	9"3/4	110	12,5	0,093
A424K050	5	9"3/4	110	12,5	0,093
A424K060	20	9"3/4	110	12,5	0,093



#### MELT BLOWN CARTRIDGES series FR-N AQUA MINI and MICRO

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A424M010	1	MINI	200	29,80	0,093
A424M020	5	MINI	200	29,80	0,093
A424M030	20	MINI	200	29,80	0,093
A424M040	1	MICRO	200	21,80	0,093
A424M050	5	MICRO	200	21,80	0,093
A424M060	20	MICRO	200	21,80	0,093

#### 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
A427012E	5-20	9"3/4	8	4,50	0,036
A427014E	20-50	9"3/4	8	6,00	0,036
A427020E	5-20	20"	4	3,60	0,036
A427022E	20-50	20"	4	5,00	0,036





# FR-E line

depth cartridges



# FR-E

## TECHNICAL CHARACTERISTICS

Raw Material	100% Polypropylene
Length range:	9"3/4 – 20" – 30" – 40"
Inner diameter:	28 mm.
Outer Diameter:	61 mm.
Micron Rating range:	5 / 20 / 50
Efficiency:	80%
Max. working pressure:	6 bar
Max. differential pressure:	0,8 bar
Max. working temperature:	80°C

Our FR-E series, is a break through in technology granting an interesting option to our consolidated and outstanding FR-N series. Because of our met-blown fabrication and procedure, these FR-E series grant a true comprise for those applications that require a just Price/Quality performance ratio.

During the manufacturing phase, and without the essence of the internal core, these cartridges grant a perfect and compact resistance of filtration.

Although an economical comprise, the soul element of these cartridge allow an exceptional performance when compared to the standard abundance supplied by competitors:

- Consistency
- Faithful retention of contaminates
- Well meaning to compression
- Contained pressure loss

Thanks to the method of fabrication and experience gained with our exceptional FRN series, this series offer a mere absence of particle media loss.

Vast chemical compatibility because made only with 100% pure polypropylene, insuring nearly infinite applications

Laboratory tests show that this series are guaranteed to give at least 80% efficiency of stated particle size confirming its perfect price/quality ratio.



## MELT BLOWN CARTRIDGES series FR-E

COD	DESCRIPTION	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
				box	box	package	
A2460270	CART.PP MELT-BLOW 9"3/4 FR5nE	5	9"3/4	60	9	0,075	
A2460280	CART.PP MELT-BLOW 9"3/4 FR10nE	10	9"3/4	60	9	0,075	
A2460290	CART.PP MELT-BLOW 9"3/4 FR20nE	20	9"3/4	60	9	0,075	
A2460310	CART.PP MELT-BLOW 9"3/4 FR50nE	50	9"3/4	60	9	0,075	
A2460430	CART.PP MELT-BLOW 20 FR5nE	5	20"	30	9	0,075	
A2460440	CART.PP MELT-BLOW 20 FR10nE	10	20"	30	9	0,075	
A2460450	CART.PP MELT-BLOW 20 FR20nE	20	20"	30	9	0,075	
A2460470	CART.PP MELT-BLOW 20 FR50nE	50	20"	30	9	0,075	
A2460510	CART.PP MELT-BLOW 30 FR5nE	5	30"	15	6,75	0,061	
A2460520	CART.PP MELT-BLOW 30 FR10nE	10	30"	15	6,75	0,061	
A2460530	CART.PP MELT-BLOW 30 FR20nE	20	30"	15	6,75	0,061	
A2460550	CART.PP MELT-BLOW 30 FR50nE	50	30"	15	6,75	0,061	
A2460590	CART.PP MELT-BLOW 40 FR5nE	5	40"	15	9	0,076	
A2460600	CART.PP MELT-BLOW 40 FR10nE	10	40"	15	9	0,076	
A2460610	CART.PP MELT-BLOW 40 FR20nE	20	40"	15	9	0,076	
A2460630	CART.PP MELT-BLOW 40 FR50nE	50	40"	15	9	0,076	

## 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)

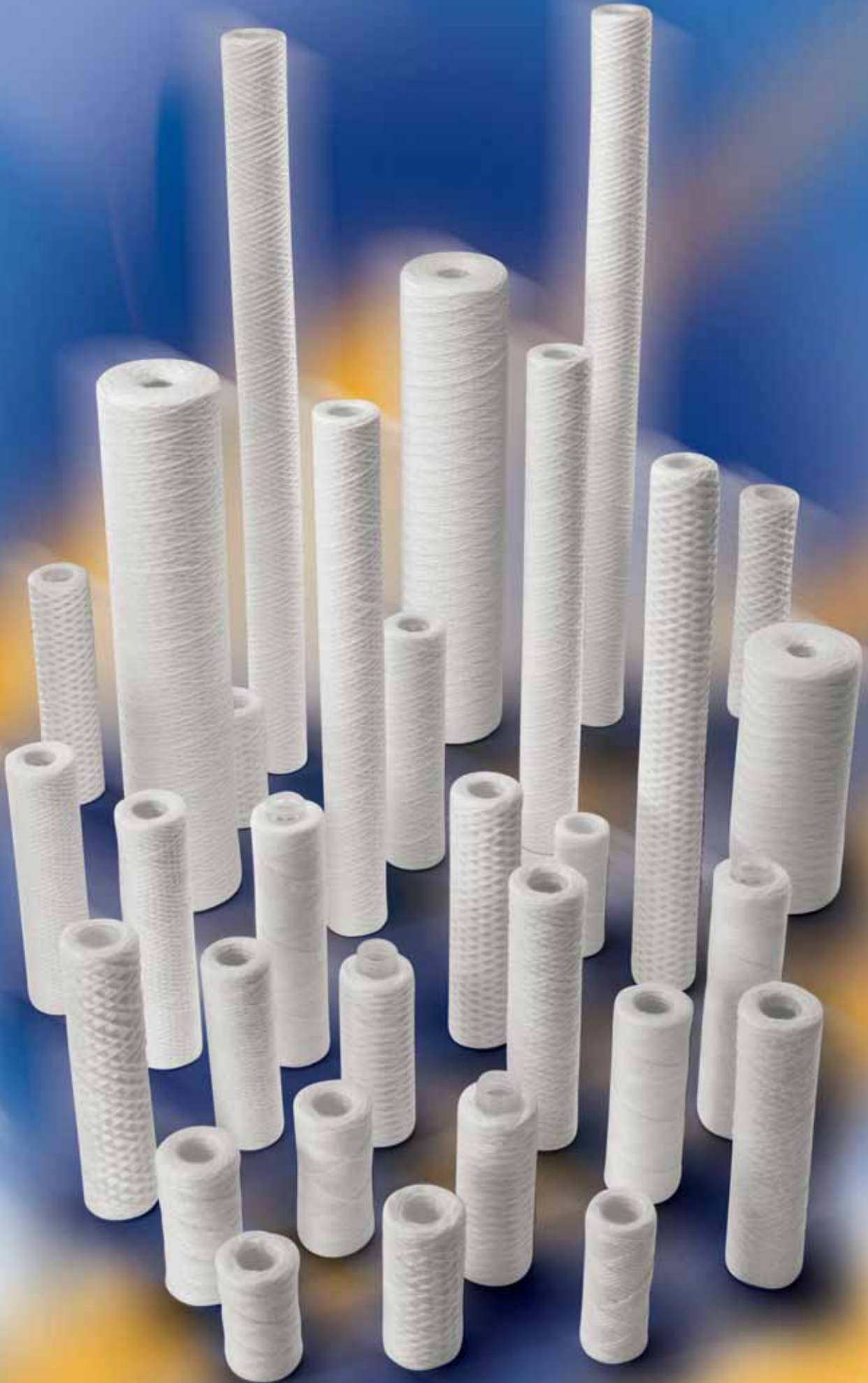
MICRON		9"3/4	20"	30"	40"
1	FA	300	600	900	1200
1	FA-BIG	300	600	900	1200
3	FA	500	1000	1500	2000
5	FA	800	1600	2400	3200
5	FA-BIG	800	1600	2400	3200
5	FA-LFH	1000			
10	FA	1100	2200	3300	4000
10	FA-BIG	1100	2200	3300	4000
20	FA	1700	2500	3400	4000
20	FA-BIG	1700	2500	3400	4000
20	FA-LFH	2000			
30	FA	1800	2600	3500	4000
50	FA	1900	2600	3500	4000
50	FA-BIG	1900	2600	3500	4000
100	FA	2000	2800	3600	4000
100	FA-BIG	2000	2800	3600	4000

#### Applications:

Water treatment, Electronic/Nuclear, Biotechnology/Fine chemicals, Food/Beverage, Coatings/Resins, General Industrial, Bulk chemicals/Petrochemicals, Galvanic.

# FA line

depth cartridges





**FA**

**TECHNICAL FEATURES**

Raw material:	100% PP
Core:	100% PP
Outer cage:	—
End caps:	DOE
O-Ring / Gasket:	—
Length:	4" - 5" - 7" - 9" 3/4 - 10" - 20" 30" - 40"
Inner diameter:	28 mm
Outer diameter:	61 mm
Micron rating:	1/3/5/10/20/30/50/100
Efficiency:	80%
<b>Pressure:</b>	
Max working pressure:	6 bar
Max diferential pressure:	0,8 bar
<b>Temperature:</b>	
Max working temperature:	80°C

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

**WOUND PP CARTRIDGES series FA**

COD	QUANTITY package	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
A4010010	2	1	4"	180	13,10	0,077
A4010020	2	3	4"	180	12,60	0,077
A4010030	2	5	4"	180	12,60	0,077
A4010040	2	10	4"	180	11,70	0,077
A4010050	2	20	4"	180	11,70	0,077
A4010060	2	30	4"	180	11,70	0,077
A4010070	2	50	4"	180	11,70	0,077
A4010080	2	100	4"	180	11,70	0,077
A4010090	2	1	5"	144	13,70	0,077
A4010100	2	3	5"	144	13,30	0,077
A4010110	2	5	5"	144	13,30	0,077
A4010120	2	10	5"	144	13,10	0,077
A4010130	2	20	5"	144	13,10	0,077
A4010140	2	30	5"	144	13,10	0,077
A4010150	2	50	5"	144	12,50	0,077
A4010160	2	100	5"	144	12,50	0,077
A4010170	2	1	7"	108	16,00	0,077
A4010180	2	3	7"	108	16,00	0,077
A4010190	2	5	7"	108	16,00	0,077
A4010200	2	10	7"	108	14,30	0,077
A4010210	2	20	7"	108	14,30	0,077
A4010220	2	30	7"	108	14,30	0,077
A4010230	2	50	7"	108	14,30	0,077
A4010240	2	100	7"	108	14,30	0,077
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

COD	QUANTITY package	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
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

**FA**

TECHNICAL FEATURES	FA AQUA BIG	FA AQUA KID	FA-LFH (wound PP open end)
Raw material:	100% PP		
Core:	—		
Outer cage:	—	—	—
End caps:	DOE	DOE	DOE
O-Ring / Gasket:	—	—	—
Length:	9"3/4-20"	5"	5"-7"-9"3/4
Inner diameter:	28 mm	28 mm	28 mm
Outer diameter:	114 mm	50 mm	56 mm
Micron rating:	1/5/10/20/50/100	1/5/10/20/50	5/20
Efficiency:	80%	80%	70%
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°	80°

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



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

COD	QUANTITY package	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
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 KID

COD	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
A4011360	1	5"	200	13,90	0,077
A4011390	5	5"	200	12,70	0,077
A4011420	10	5"	200	12,70	0,077
A4010720	20	5"	200	12,90	0,077
A4011430	50	5"	200	12,90	0,077
A4011830	1	9"3/4	110	13,90	0,077
A4011840	5	9"3/4	110	12,70	0,077
A4011850	10	9"3/4	110	12,70	0,077
A4011860	20	9"3/4	110	12,90	0,077
A4011870	50	9"3/4	110	12,90	0,077

#### WOUND PP CARTRIDGES series FA AQUA BIG

COD	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
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

#### WOUND PP CARTRIDGES series FA-LFH - Ø 56 mm. (OPENEND YARN)

COD	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
A4280980	5	5"	144	12,20	0,077
A4280940	20	5"	144	12,20	0,077
A4280990	5	7"	108	13,00	0,077
A4280950	20	7"	108	13,70	0,077
A4280750	5	9"3/4	72	12,60	0,077
A4280920	20	9"3/4	72	12,60	0,077

## 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

FLOW RATE (lt/h)		9"3/4	20"
MICRON			
3	PL	800	1600
15	CE	1800	3400
15	CE-BIG	2100	4100
20	PL	2000	3600
20	PL-BIG	2300	4300
50	PL	2500	4500
50	PL-BIG	2800	4800

# CE-PL line

surface filtering



# CE AQUA PRO

## TECHNICAL FEATURES

	CE AQUA PRO	CE AQUA PRO BIG
Raw material:	CELLULOSE	CELLULOSE
Core:	PP	PP
Outer cage:	PP	PP
End caps:	DOE-PP	DOE-PP
O-Ring / Gasket:	PVC	PVC
Length:	9"3/4-20	9"3/4-20
Inner diameter:	28 mm	28 mm
Outer diameter:	70 mm	116 mm
Micron rating:	15	15
Efficiency:	85%	85%
Pressure:		
Max working pressure:	6 bar	6 bar
Max diferencial pressure:	0,8 bar	0,8 bar
Temperature:		
Max working temperature:	65°C	65°

Note: Max water flow rate at 20°C and diferencial 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	



### PLEATED CELLULOSE CARTRIDGES series CE AQUA PRO BIG

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4070090	15	9"3/4	6	4,27	0,030	
A4070110	15	20"	6	8,16	0,035	





# PL AQUA PRO

TECHNICAL FEATURES	PL AQUA PRO	PL AQUA PRO BIG
Raw material:	PES	PES
Core:	PP	PP
Outer cage:	PP	PP
End caps:	DOE-PP	DOE-PP
O-Ring / Gasket:	PVC	PVC
Length:	9"3/4-20	9"3/4-20
Inner diameter:	28 mm	28 mm
Outer diameter:	70 mm	116 mm
Micron rating:	3/20/50	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 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	
A4080240	3	20"	15	9,07	0,035	
A4080140	20	9"3/4	15	4,70	0,030	
A4080160	20	20"	15	9,07	0,035	
A4080150	50	9"3/4	15	4,70	0,030	
A4080170	50	20"	15	9,07	0,035	



## 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	
A4080200	20	20"	6	8,69	0,035	
A4080190	50	9"3/4	6	4,32	0,030	
A4080210	50	20"	6	8,69	0,035	

## 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)			
MICRON		9"3/4	20"
80	RLA 3/4" - 1"	3500	7000
80	RLA 1"1/4	4200	8400
80	RL	3200	6400
250	RLA 3/4"-1"	4500	9000
250	RLA 1"1/4	5200	10400
430	RLA 1"1/4	6000	12000
250	RL	4200	8400

# RL-RLA line

surface filtration



# RLA-RL

## TECHNICAL FEATURES

	RLA	RL
Raw material:	PA	PA
Core:	-	PP
Outer cage:	PP	PP
End caps:	DOE-PP	DOE-PP
O-Ring / Gasket:	PVC	PVC
Length:	5"-7"-9"3/4-20"	5"-9"3/4
Inner diameter:		
3/4" - 1"	27 mm	26 mm
1"1/4 - 1"1/2	40 mm	-
Outer diameter:		
3/4" - 1"	65 mm	63 mm
1"1/4 - 1"1/2	65 mm	-
Micron rating:	80-250-430	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 for 3/4"-1" inlets/outlets

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4030100	80	5"	144	15,90	0,093	
A4030010	250	5"	144	15,90	0,093	
A4030020	80	7"	90	12,60	0,093	
A4030110	250	7"	90	12,60	0,093	
A4030030	80	9"3/4"	70	12,60	0,093	
A4030120	250	9"3/4"	70	12,60	0,093	
A4030040	80	20"	35	13,00	0,093	
A4030130	250	20"	35	13,00	0,093	

### WASHABLE NET CARTRIDGES series RLA for 1"1/4-1"1/2 inlets/outlets

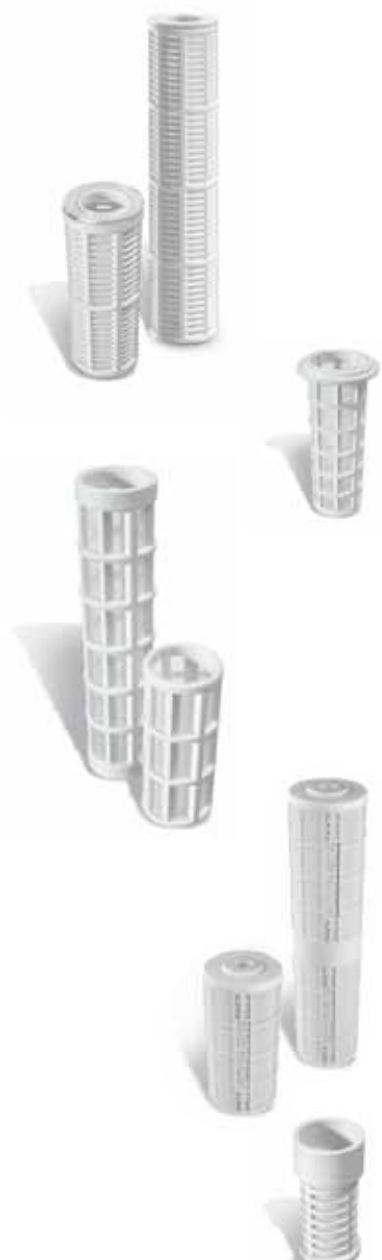
COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4030050	250	5"	144	15,90	0,093	
A4030140	430	5"	144	15,90	0,093	
A4030060	80	7"	90	12,30	0,093	
A4030150	250	7"	90	12,30	0,093	
A4030160	430	7"	90	12,30	0,093	
A4030070	80	9"3/4"	70	12,60	0,093	
A4030170	250	9"3/4"	70	12,60	0,093	
A4030180	430	9"3/4"	70	12,60	0,093	
A4030080	80	20"	35	13,00	0,093	
A4030190	250	20"	35	13,00	0,093	
A4030200	430	20"	35	13,00	0,093	

### WASHABLE NET CARTRIDGES series RL

COD	MICRON	HEIGHT	QUANTITY	Kg	VOLUME	
			box	box	package	
A4040010	80	9"3/4"	70	13,28	0,093	
A4040050	250	9"3/4"	70	13,28	0,093	

TECHNICAL FEATURES	RLA KID	RLA AQUA NET	RLA MINI	RLA MICRO	DIFF. FILTRO
Raw material:	PA	PA	PA	PA	PA
Core:	-	-	-	-	-
Outer cage:	PP	PP	PP	PP	PP
End caps:	DOE-PP	SOE	SOE	SOE	SOE
O-Ring / Gasket:	PVC	-	-	-	-
Length:	5"	102 mm	97 mm	52 mm	59 mm
<b>Inner diameter:</b>					
3/4" - 1"	27 mm	27 mm	18 mm	18 mm	20 mm
1"1/4 - 1"1/2	-	-	-	-	-
<b>Outer diameter:</b>					
3/4" - 1"	50 mm	42 mm	22 mm	22 mm	25 mm
1"1/4 - 1"1/2	-	-	-	-	-
Micron rating:	80	80	80	80	80
Efficiency:	80%	80%	80%	80%	80%
<b>Pressure:</b>					
Max working pressure:	6 bar	6 bar	6 bar	6 bar	6 bar
Max differential pressure:	0,8 bar	0,8 bar	0,8 bar	0,8 bar	0,8 bar
<b>Temperature:</b>					
Max working temperature:	80°C	80°C	80°C	80°C	80°C

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



#### WASHABLE NET CARTRIDGES series RLA AQUA KID

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4030090	80	5"	225	15,78	0,093	
A4030230	80	9"3/4	225	15,78	0,093	
A4030240	250	9"3/4	110	15,78	0,093	

#### WASHABLE NET CARTRIDGES series RLA AQUA NET

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A803R020	80	102 mm	200	4,40	0,093	

#### WASHABLE NET CARTRIDGES series RLA AQUA-MINI and AQUA-MICRO

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A803R030	80	97	100	2,98	0,093	
A803R040	80	52	100	2,18	0,093	

#### WASHABLE NET CARTRIDGES LAVABILE series AQUA BIG

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4030510	80	9"3/4	6	3	0,035	
A4030520	250	9"3/4	6	3	0,035	
A4030530	20	20"	6	4,5	0,035	
A4030540	250	20"	6	4,5	0,035	

#### WASHABLE NET CARTRIDGES DIFFUSER Ø 20 mm.

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A6011320	80	59	200	3,18	0,093	

## 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 were high temperatures apply.

They are available in the following versions.

- Series AC; non-pleated stainless steel with end caps in polypropylene
- Series AC-HT; non-pleated stainless steel with end caps in stainless steel
- Series ACP; 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 were drinkable water is being processed.

Being pleated, the ACP series grant a much higher surface of filtration in the amount of 4 times a standard AC version which are non-pleated. Therefore they are more efficient when high flow is required and were 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 ACP 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)		9"3/4	20"
MICRON			
80	AC	2500	5000
80	AC-HT 3/4"-1"	2500	5000
80	AC-HT 1"1/4	3200	6400
80	ACP	2800	5600

# AC-ACP line

surface filtration



# AC/AC-HT/ACP

TECHNICAL FEATURES	AC	AC-HT	ACP
Raw material:	SS AISI 304	SS AISI 304	SS AISI 304
Core:	SS AISI 304	SS AISI 304	SS AISI 304
Outer cage:	-	-	-
End caps:	DOE-PP	DOE-INOX	DOE-INOX
O-Ring / Gasket:	PVC	PVC	PVC
Length:	5"-9"3/4	9"3/4-20"	5"-9"3/4-20"
Inner diameter:			
3/4" - 1"	27 mm	26 mm	26 mm
1"1/4 - 1"1/2		37 mm	
Outer diameter:			
3/4" - 1"	70 mm	62 mm	55 mm
1"1/4 - 1"1/2		62 mm	
Micron rating:	80 mm	80	80
Efficiency:	75%	75%	75%
Pressure:			
Max working pressure:	6 bar	6 bar	6 bar
Max diferencial pressure:	0,8 bar	0,8 bar	0,8 bar
Temperature:			
Max working temperature:	80°C	100°C	100°C

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



## NON-PLEATED STAINLESS STEEL CARTRIDGES serie AC with end caps in polypropylene

COD	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
A4050110	80	5"	30	4,92	0,030
A4050130	80	9"3/4	15	3,90	0,030



## NON-PLEATED STAINLESS STEEL CARTRIDGES series AC-HT with end caps in stainless steel for 3/4" - 1" inlets/outlets

COD	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
A4050030	80	9"3/4	15	3,95	0,030
A4050040	80	20"	15	6,84	0,035

## NON-PLEATED STAINLESS STEEL CARTRIDGES series AC-HT with end caps in stainless steel for 1"1/4-1"1/2 inlets/outlets

COD	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
A4050080	80	9"3/4	15	3,95	0,030
A4050090	80	20"	15	6,84	0,035



## REPLACEMENT CARTRIDGES FOR SELF CLEANING FILTERS

### series EKO CLEAN 3/4"-1"-1 1/4"

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
R8010080	90	72 mm	1	0,087	-	
R8010070	30	72 mm	1	0,087	-	



### series EKO CLEAN 1 1/2"

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
R8010100	90	137 mm	1	0,160	-	
R8010090	30	137 mm	1	0,160	-	

### series TOP CLEAN E AQUAMATIC 3/4"-1"-1 1/4"

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
R8010120	90	72 mm	1	0,147	-	
R8010110	30	72 mm	1	0,147	-	



### series TOP CLEAN 1 1/2"

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
R8010140	90	137 mm	1	0,250	-	
R8010130	30	137 mm	1	0,250	-	

### series AQUAMATIC 1 1/2"

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
R8010120	90	72 mm	1	0,147	-	
R8010110	30	72 mm	1	0,147	-	

### MINIBRAVO

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
R8010220	90	100 mm	1	-	-	

### series BRAVOMAX 1 1/2"-2"

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A8010460	100	165 mm x 90	1	0,298	-	
A8010560	150	165 mm x 90	1	0,298	-	
A8010510	200	165 mm x 90	1	0,298	-	



### series BRAVOMAX 2 1/2"-3"

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A8010450	100	225 mm x 90	1	0,400	-	
A8010440	150	225 mm x 90	1	0,400	-	
A8010500	200	225 mm x 90	1	0,400	-	

## 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 1500m<sup>2</sup>/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

**- Adsorption 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

# CA-GAC line

carbon cartridges



activated carbon

TECHNICAL FEATURES	RLA-CA	CA-CABLU	GAC	GAC-CC	GAC-CC-P	GAC-BIG
Filter media:	G.A.C.	G.A.C.	G.A.C.	G.A.C. LAVATO	G.A.C. ADIC WASHED + POLYPHOSPHATE	G.A.C.
Coconut shell granular activated carbon:						
Pre filter:	PA	PES	PP	PP	PP	PP
Post filter:	PES	PES	PP	PP	PP	PP
Core:	-	-	-	-	-	-
Out cage:	PP	PST/PP	PP	PP	PP	PP
End caps:	SOE-PP	SOE-PST	DOE-PP	DOE-PP	DOE-PP	DOE-PP
O-Ring / Gasket:	PVC	PVC	PVC	PVC	PVC	PVC
Length:	5"-7"-9"3/4	5"-7"-9"3/4-20"	9"3/4-20"	9"3/4-20"	9"3/4-20"	9"3/4-20"
Inner diameter:	27 mm	27 mm	26 mm	26 mm	26 mm	26 mm
Outer diameter:	65 mm	72 mm	72 mm	72 mm	72 mm	120 mm
<b>Micron rating:</b>						
Pre filter micron	80	20	40	5/40	40	40
Post filter micron	20	20	40	5/40	40	40
Efficiency (pre and post filter):	75%	75%	95%	95%	95%	95%
<b>Pressure:</b>						
Max working pressure:	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar
Max diferential pressure:	0,8 bar	0,8 bar	0,8 bar	0,8 bar	0,8 bar	0,8 bar
<b>Temperature:</b>						
Max working temperature:	50°C	50°C	50°C	50°C	50°C	50°C

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



WASHABLE NET CARTRIDGES WITH ACTIVE CARBON series RLA-CA

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4090010	80	5"	30	7,65	0,030
A4090020	80	7"	15	5,21	0,030
A4090030	80	9"3/4	15	6,62	0,030

TRANSPARENT CANISTER series CV

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4110010	-	5"	100	12,96	0,093
A4110020	-	7"	70	11,70	0,093
A4110030	-	9"3/4	50	11,07	0,093
A4110040	-	20"	25	11,13	0,093

BLU CANISTER series CV

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME
			box	box	package
A4110070	-	5"	100	12,96	0,093
A4110110	-	7"	70	11,70	0,093
A4110060	-	9"3/4	50	11,07	0,093
A4110120	-	20"	25	11,13	0,093

# activated carbon

TECHNICAL FEATURES	GAC-BIG-CC	FA-CA	CE-CA	FRN-CA	CTO-E	AQUASELECT
Filter media:	G.A.C. ADIC WASHED	G.A.C.	CELLULOSE IMPREGNATED	G.A.C. ADIC WASHED	CARBON	G.A.C. ADIC WASHED
Coconut shell granular activated carbon:			CARBON		BRIQUETTE	
Pre filter:	PP	PP	-	PP	PES	CELLULOSE
Post filter:	PP	PES	-	PP	PES	CELLULOSE
Core:	-	-	PP	PP	-	-
Out cage:	PP	PP	-	-	-	PST
End caps:	DOE-PP	DOE-PP	DOE-PP	DOE	DOE-PP	DOE-PST
O-Ring / Gasket:	PVC	PVC	PVC	-	PVC	-
Length:	9"3/4-20"	5"-7"-9"3/4-10"-20"	5"-7"-9"3/4-20"	5"-9"3/4-20"	9"3/4-20"	-
Inner diameter:	26 mm	30 mm	27 mm	27 mm	26 mm	13 mm
Outer diameter:	120 mm	70 mm	70 mm	63 mm	72 mm	47 mm
<b>Micron rating:</b>						
Pre filter micron	5/40	20	5	5/20	10	5
Post filter micron	5/40	-	-	-	-	5
Efficiency (pre and post filter):	95%	80%	85%	95%	95%	85%
<b>Pressure:</b>						
Max working pressure:	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar
Max diferential pressure:	0,8 bar	0,8 bar	0,8 bar	0,8 bar	0,8 bar	0,8 bar
<b>Temperature:</b>						
Max working temperature:	50°C	50°C	50°C	50°C	50°C	50°C

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



## ACTIVE CARBON CARTRIDGES series CA-POST20 POST FILTER 20 MICRON

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4120010	20	5"	30	7,40	0,030	
A4120020	20	7"	15	5,71	0,030	
A4120030	20	9"3/4	15	8,21	0,030	
A4120040	20	20"	15	16,00	0,035	

## ACTIVE CARBON CARTRIDGES series CA-POST20 BLU / POST FILTER 20 MICRON

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4120050	20	5"	30	7,40	0,030	
A4120060	20	7"	15	5,71	0,030	
A4120070	20	9"3/4	15	8,21	0,030	
A4120080	20	20"	15	16,00	0,035	

## ACTIVE CARBON CARTRIDGES series GAC-40CC COCO SHELL GRANULAR-ACTIVATED CARBON / PRE-POST 40 MICRON FILTER

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4120560	40	9"3/4	15	8,75	0,030	
A4120570	40	20"	15	18,37	0,035	



**ACTIVE CARBON CARTRIDGES series GAC/P-40CC / ACID WASHED COCO SHELL  
GRANULAR-ACTIVATED CARBON+POLYPHOSPHATES / PRE-POST 40 MICRON FILTER**

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4120580	40	9*3/4	15	8,80	0,030	

**ACTIVE CARBON CARTRIDGES series GAC-40CC BIG / ACID WASHED COCO SHELL  
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	

**ACTIVE CARBON CARTRIDGES series FA-CA / PRE-POST 20 MICRON FILTER  
COCO SHELL GRANULAR-ACTIVATED CARBON**

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4210020	20	5"	30	7,50	0,030	
A4210030	20	7"	15	5,14	0,030	
A4210040	20	9*3/4	15	6,34	0,030	
A4210050	20	10"	15	6,60	0,030	
A4210060	20	20"	15	14,20	0,035	

**ACTIVE CARBON CARTRIDGES series FRN-CA / PRE-POST 40 MICRON FILTER  
COCO SHELL / GRANULAR-ACTIVATED CARBON**

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4210530	5	5"	30	4,20	0,030	
A4210540	5	9*3/4	15	3,91	0,030	
A4210550	5	20"	15	7,68	0,035	
A4210510	20	5"	30	4,20	0,030	
A4210500	20	9*3/4	15	3,90	0,030	
A4210520	20	20"	15	7,70	0,035	

**CARBON BLOCK CARTRIDGES series CTO-E**

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4220050	10	9*3/4	25	12	0,042	
A4220070	10	20"	16	17,5	0,065	



### 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	



### ACTIVE CARBON CARTRIDGES for AQUA-SELECT (2 pieces) COCO SHELL GRANULAR / ACTIVATED CARBON

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A8090030	5	AQUA SELECT	24	3,96	0,085	

ALL CHLORINE REDUCTION DATA IS FOR 2 ppm FREE CHLORINE TO < 0,5 ppm. SOME DATA IS EXTRAPOLATED.

MODEL	LENGTH	RECOMMENDED FLOW RATE	CHLORINE REDUCTION FLOW RATE
RLA-CA	5"	1,2 lpm a 0,1 bar	6.200 a 1,2 lpm
RLA-CA	7"	1,9 lpm a 0,2 bar	9.000 a 1,9 lpm
RLA-CA	9"3/4	2,4 lpm a 0,3 bar	12.400 a 2,4 lpm
CA	5"	1,8 lpm a 0,1 bar	9.600 a 1,8 lpm
CA	7"	2,4 lpm a 0,2 bar	14.400 a 2,4 lpm
CA	9"3/4	3,6 lpm a 0,2 bar	19.200 a 3,6 lpm
CA	20"	8 lpm a 1 bar	38.400 a 8 lpm
GAC-40	9"3/4	3,6 lpm a 0,2 bar	19.200 a 3,6 lpm
GAC-40	20"	8 lpm a 1 bar	38.400 a 8 lpm
GAC-5 CC	9"3/4	3,8 lpm a 0,2 bar	28.400 a 3,8 lpm
GAC-5 CC	20"	8 lpm a 1 bar	58.000 a 8 lpm
GAC-40 CC	9"3/4	3,8 lpm a 0,2 bar	28.400 a 3,8 lpm
GAC-40 CC	20"	8 lpm a 1 bar	58.000 a 8 lpm
GAC/P-40 CC	9"3/4	7 lpm a 0,3 bar	18.900 a 7 lpm
GAC-40 BIG	9"3/4	8 lpm a 0,2 bar	48.000 a 8 lpm
GAC-40 BIG	20"	14 lpm a 0,4 bar	110.000 a 14 lpm
GAC-5 CC BIG	9"3/4	8 lpm a 0,2 bar	180.000 a 8 lpm
GAC-5 CC BIG	20"	14 lpm a 0,4 bar	360.000 a 14 lpm

MODEL	LENGTH	RECOMMENDED FLOW RATE	CHLORINE REDUCTION FLOW RATE
GAC-40 CC BIG	9"3/4	8 lpm a 0,2 bar	180.000 a 8 lpm
GAC-40 CC BIG	20"	14 lpm a 0,4 bar	360.000 a 14 lpm
FA-CA PP20	5"	1,4 lpm a 0,1 bar	6.400 a 1,4 lpm
FA-CA PP20	7"	2,1 lpm a 0,2 bar	9.200 a 2,1 lpm
FA-CA PP20	9"3/4	2,6 lpm a 0,3 bar	12.600 a 2,6 lpm
FA-CA PP20	10"	2,6 lpm a 0,3 bar	12.600 a 2,6 lpm
FA-CA PP20	20"	5,2 lpm a 1 bar	25.200 a 5,2 lpm
CE-CA	5"	7 lpm a 0,3 bar	8.500 a 1,8 lpm
CE-CA	7"	12 lpm a 0,3 bar	14.400 a 3 lpm
CE-CA	9"3/4	18 lpm a 0,4 bar	24.400 a 4 lpm
CE-CA	20"	24 lpm a 1 bar	38.000 a 4 lpm
FRN-CA	5"	1 lpm a 0,1 bar	4.200 a 1 lpm
FRN-CA	9"3/4	2 lpm a 0,3 bar	8.400 a 2 lpm
FRN-CA	20"	3,5 lpm a 1 bar	16.800 a 3,5 lpm
CTO-E	9"3/4	4 lpm a 0,2 bar	12.000 a 4 lpm
AQUA SELECT		2 lpm a 0,5 bar	900 a 2 lpm

## POLYPHOSPHATE CARTRIDGES

AQUA Srl offers various polyphosphate cartridges that differ in sizes and with defined characteristics.

Polyphosphate salts are anti-scaling chemical agents. Therefore ideal for use with hard calcareous water, and where eliminating of scale and corrosion is required.

A polyphosphate cartridge consists of a plastic canister filled with crystal salts of different mesh. The canisters can vary in size.

Once the polyphosphate salt has dissolved a chemical reaction takes place withholding the suspended particles. This prevents scaling and depositing of the particles along pipelines or inside mechanical components, avoiding inefficiency.

To be efficient, all polyphosphate cartridge require a determined time of water contact. However, thanks to its fast dissolving effect this period is relatively short.

Polyphosphate cartridges have a low pressure drop.

Usually they are used in industrial applications. Standard regulations require that only minimal dosage is allowed when applied to drinking water. Therefore, in these cases, it is necessary to have an accurate and controlled dosage guaranteed by a dosing pump (AQUA-Mini & AQUA-Dos, see our Dosing Systems Product Guide)

It is important to fully understand the use of such cartridges so as to determine the correct application.

For applications and maintenance, please refer to the data sheet indicated for each model.

### IDEAL APPLICATIONS ARE:

Inlet of heaters, Inlet of washing machines.

FLOW RATE (lpm)		
MODEL	HEIGHT	RECOMMENDED FLOW RATE
RLA CP	5"	4 lpm
RLA CP	7"	6 lpm
RLA CP	9"3/4	8 lpm
CP	5"	6 lpm
CP	7"	9 lpm
CP	9"3/4	12 lpm
CP	20"	18 lpm

# RLA-CP line

special cartridges





# RLA-CP/CP

## TECHNICAL FEATURES

	RLA-CP	CP
Filter media:	FOOD GRADE POLYPHOSPHATE	FOOD GRADE POLYPHOSPHATE
Pre filter:	PA	PES
Post filter:	PES	PES
Core:	-	-
Out cage:	PP	PST
End caps:	SOE-PP	SOE-PST
O-Ring / Gasket:	PVC	PVC
Length:	5"-7"-9"3/4	5"-7"-9"3/4-20"
Inner diameter:	27 mm	27 mm
Outer diameter:	65 mm	72 mm
<b>Micron rating:</b>		
Pre filter micron	80	20
Post filter micron	20	20
Efficiency (pre and post filter):	75%	75%
<b>Pressure:</b>		
Max working pressure:	6 bar	6 bar
Max differential pressure:	0,8 bar	0,8 bar
<b>Max Temperature:</b>		
Max working temperature:	38°C	38°C

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



### WASHABLE NET CARTRIDGES WITH POLYPHOSPHATES series RLA-CP

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4100010	80	5"	30	12,60	0,030	
A4100020	80	7"	15	8,74	0,030	
A4100030	80	9"3/4	15	12,50	0,030	



### TRANSPARENT CANISTER series CV

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4110010	-	5"	100	12,96	0,093	
A4110020	-	7"	70	11,70	0,093	
A4110030	-	9"3/4	50	11,07	0,093	
A4110040	-	20"	25	11,13	0,093	



**BLU CANISTER**  
series CV

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4110070	-	5"	100	12,96	0,093	
A4110110	-	7"	70	11,70	0,093	
A4110060	-	9"3/4	50	11,07	0,093	
A4110120	-	20"	25	11,13	0,093	



**CARTRIDGES WITH POLYPHOSPHATES**  
series CP / PRE-POST 20 MICRON FILTER

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4130010	20	5"	30	14,03	0,030	
A4130020	20	7"	15	11,06	0,030	
A4130030	20	9"3/4	15	16,13	0,030	
A4130040	20	20"	15	31,21	0,035	



**CARTRIDGES WITH POLYPHOSPHATES**  
series CP-BLU / PRE-POST 20 MICRON FILTER

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4130050	20	5"	30	14,03	0,030	
A4130060	20	7"	15	11,06	0,030	
A4130070	20	9"3/4	15	16,13	0,030	
A4130080	20	20"	15	31,21	0,035	

## SPECIAL CARTRIDGES

AQUA can supply the following models of Special Cartridges

### QUARTZ CARTRIDGES;

The QU series are filtering cartridges made with siliceous sand (quartz). Very fine grains are used which are bonded together by a epoxy component very resistant to water.

The extremely compact mesh construction guarantees a nominal filtration of 30 microns with a filtering efficiency of 82%.

This is a mechanical filter and it is used for eliminating or reducing suspended solid particles or when there is turbid water.

Quartz cartridges can be used several times but require a thorough clean from time to time. This can be done by submersing the cartridge into a 10% dilute solution of hydrochloric acid for 4 to 10 hours and then using compressed air on the surface making sure the action is from external to internal.

Because of its structure It is suggested not to use these cartridges excessively as the

filtered particles will become more difficult to remove and consequently pressure drop will jeopardize the efficiency and growth of bacteria will accrue.

### STERILIZING CARTRIDGES:

Antibacterial Ceramic Cartridges are mechanical cartridges and not biological. During the filtration they sterilize because a special fossil flour of diatom is used. These cartridges are very porous with very fine mesh that can filter very fine suspended particles. This means also bacteria will be filtered.

It has to be clarified that these cartridges will act only as a barrier to bacteria down to a size of 0.5 micron.

Changing of these cartridges depends on the working conditions. In any case we suggest not to use such cartridge for more than 12 months.

### APPLICATIONS:

Water Treatment

FLOW RATE (lph)		
MICRON		9"3/4
30	QU	
0,4	MX	120
0,4	MCA	120
0,5	AQUA SELECT	60

# QU-ST line

## special cartridges



special

TECHNICAL FEATURES

QU

MX

Raw material:	QUARTZ	SINTERED DIATOMACEOUS EARTH
Filter media:		
Core:	-	-
Outer cage:	-	-
End caps:	DOE	DOE
O-Ring / Gasket:	PES	-
Length:	5"-7"-9"3/4	240 mm
Inner diameter:	28 mm	1/4" x 30 mm
Outer diameter:	55 mm	52 mm
Micron rating:	30	0,4
Efficiency:	82%	99,9%
<b>Pressure:</b>		
Max working pressure:	6 bar	6 bar
Max diferencial pressure:	0,8 bar	0,8 bar
<b>Temperature:</b>		
Max working temperature:	38°C	38°C

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



QUARTZ CARTRIDGES series QU

COD	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
A4160010	30	5"	18	6,85	0,028
A4160020	30	7"	12	6,05	0,028
A4160030	30	9"3/4	12	8,07	0,028



STERILIZING CARTRIDGES D.O.E. series MX

COD	MICRON	LENGTH	QUANTITY box	Kg box	VOLUME package
A4180010	0,4	240	24	7,40	0,028

special

TECHNICAL FEATURES	MCA	AQUA SELECT
Raw material::	SINTERED DIATOMACEOUS EARTH	SINTERED DIATOMACEOUS EARTH
Filter media:	G.A.C.	-
Core:	-	ABS
Outer cage:	-	-
End caps:	DOE	DOE
O-Ring / Gasket:	-	-
Length:	240 mm	72 mm
Inner diameter:	1/4" x 30 mm	13 mm
Outer diameter:	52 mm	50 mm
Micron rating:	0,4	0,5
Efficiency:	99,9%	99,9%
<b>Pressure:</b>		
Max working pressure:	6 bar	6 bar
Max diferencial pressure:	0,8 bar	0,8 bar
<b>Temperature:</b>		
Max working temperature:	38°C	38°C

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



STERILIZING CARTRIDGES D.O.E. series MCA

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4190010	0,4	240	24	9,80	0,028	



CERAMIC AND ACTIVE CARBON CARTRIDGES FOR AQUA SELECT

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A8090040	0,5	72 mm	50	6,50	0,028	

## 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	9"3/4	2 lpm	cation exchange resin	Kgr/ft3 as CaCo3	41,5	
RC	20"	3 lpm				
RC-BIG	9"3/4	4,5 lpm				
RC-BIG	20"	8 lpm				
R-DEMI	9"3/4	1 lpm	ion exchange resin		OH+Form	H + Form
R-DEMI	20"	1,6 lpm		eq/l	1,0	1,8
R-DEMI BIG	9"3/4	2,5 lpm		Kgr/ft3 as CaCO3	21,9	39,3
R-DEMI BIG	20"	4,7 lpm				
FE-BIG	20"	24 lpm				

resin line  
special cartridges





resin

TECHNICAL FEATURES	RC	RC-BIG	R-DEMI	R-DEMI BIG	FE-BIG
Filter media:	CATION RESIN	CATION RESIN	MIX BED RESIN	MIX BED RESIN	SILICA CRYSTALS
Pre filter:	PP	PP	PP	PP	PP
Post filter:	PP	PP	PP	PP	PP
Core:	-	-	-	-	-
Out cage:	PP	PP	PP	PP	PP
End caps:	DOE-PP	DOE-PP	DOE-PP	DOE-PP	DOE-PP
O-Ring / Gasket:	PVC	PVC	PVC	PVC	PVC
Length:	9"3/4-20"	9"3/4-20"	9"3/4-20"	9"3/4-20"	9"3/4-20"
Inner diameter:	26 mm	26 mm	26 mm	26 mm	26 mm
Outer diameter:	72 mm	120 mm	72 mm	120 mm	120 mm
<b>Micron rating:</b>					
Pre filter micron	5	5	5	5	40
Post filter micron	5	5	5	5	40
Efficiency (pre and post filter):	95%	95%	95%	95%	95%
<b>Pressure:</b>					
Max working pressure:	6 bar	6 bar	6 bar	6 bar	6 bar
Max differential pressure:	0,8 bar	0,8 bar	0,8 bar	0,8 bar	0,8 bar
<b>Temperature:</b>					
Max working temperature:	38°C	38°C	38°C	38°C	3°C

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



**CATION EXCHANGE RESIN CARTRIDGES**  
series RC / PRE-POST 40 MICRON FILTER

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4150010	5	9"3/4	15	11,32	0,030	
A4150040	5	20"	15	25,00	0,035	



**CATION EXCHANGE RESIN CARTRIDGES**  
series RC-BIG / PRE-POST 40 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 CARTRIDGE**  
series R-DEMI / PRE-POST 40 MICRON FILTER

COD	MICRON	LENGTH	QUANTITY	Kg	VOLUME	
			box	box	package	
A4150070	5	9"3/4	15	11,32	0,030	
A4150080	5	20"	15	25,00	0,035	



**IONIC EXCHANGE RESIN CARTRIDGES**  
series R-DEMI-BIG / PRE-POST 40 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)
- back wash flow rate between 17 and 24 m3/h

**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-BIG-CC.

	TEMPERATURE	% CONCENTRATION	POLYPROPYLENE	POLYAMIDE	POLYESTER	POLYPROPYLENE TF	SAN	POLYPROPYLENE GF	ABS	VITON	PVC	AISI 304
<b>MINERAL ACID</b>												
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
<b>ORGANIC ACID</b>												
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	*
<b>SALTS</b>												
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
<b>BASE</b>												
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
<b>OXIDIZING AGENTS</b>												
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
POTASIMUM 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
<b>ORGANIC SOLVENTS</b>												
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
<b>MISCELLANEOUS</b>												
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

### CARTRIDGES SPARE PARTS

CODE	FRN	FA	CE	PL	RL	RLA	KID	AC	ACP	CV	CP	CA	GAC	CTO	FACA	CECA	R		
<b>GASKET FOR CARTRIDGES 3/4"-1"</b>																			
A6010210 GASKET 52x27x4			.	.	.	.		.	.	.	.	.	.	.	.	.	.	.	
<b>CARTRIDGES 1"1/4-1"1/2-2"</b>																			
A6010860 GASKET 52x40x4						.		.											
A6012070 GASKET 50x31x3,5							.												
MG020020 GASKET 53x28x8 S/AD										.	.	.							
MC030070 GASKET 21 D. 70x20 mm										.	.	.							
MC030260 GASKET 21 D. 52x20 mm																.			
<b>COUPLERS</b>																			
A6010190 UNIVERSAL GOUPLERS FOR CARTRIDGE	.	.			.	.		.	.					.		.			
S4110160 CARTRIDGE GOUPLER CV										.	.	.						.	
A6050260 CARTRIDGE GOUPLER AQUA PRO			.	.															
<b>DIFFUSER TUBE</b>																			
A6010100 DIFFUSER TUBE 5"																			
A6010110 DIFFUSER TUBE 7"																			
A6010120 DIFFUSER TUBE 9"3/4																			
A6010130 DIFFUSER TUBE 20"																			
A6012080 DIFFUSER TUBE 9"3/4 BIG																			
A6012090 DIFFUSER TUBE 20" BIG																			
PG010060 O.RING TUBE STANDARD																			
MG010480 O.RING TUBE AQUA BIG																			
A6010140 DIFFUSER DISC STANDARD																			
A6011370 DIFFUSER DISC AQUA KID																			
A6012100 DIFFUSER DISC AQUA BIG																			
<b>FILTER MEDIA</b>																			
MC010010 COCO SHELL GRANULAR-ACTIVATED 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)																			LT 25
MC030160 MIX BED RESIN (KG. 20)																			LT 25
MC030400 IRON REMOVER (Silica crystals) (KG. 22,7)																			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 FRANCO AQUA PLANT, 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 discretion.
  - 5) Aqua accepts 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 reserves the right to make changes in the technical specifications and prices of its products, without
  - 7) providing advance notification.
- Any litigation that may arise will be judged by the Competent Court of Reggio Emilia, the applicable law and the Italian law.

### LEGEND

<b>PP</b> = Polypropylene	<b>PES</b> = Polyester	<b>PA</b> = Nylon
<b>PVC</b> = Polyvinyl chloride	<b>PST</b> = Polystyrene	<b>SS</b> = Stainless steel

# AQUA



WATER SYSTEM

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