



### **i** DESCRIPTION

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.

- Applications
- water treatment
  - General Industries
  - Laboratory

### **g** TECHNICAL FEATURES

Characteristic	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	-	-	-	-	-
Outer cage	PP	PP	PP	PP	PP
End caps	DOE-PP	DOE-PP	DOE-PP	DOE-PP	DOE-PP
O-Ring/Gasket	SEBS	SEBS	-	-	-
Length (a) inches	9"3/4-20"	9"3/4-20"	9"3/4-20"	9"3/4-20"	9"3/4-20"
Inner diameter (b)mm	26	26	26	26	26
Outer diameter (c)mm	72	120	72	120	120
Efficiency	95%	95%	95%	95%	95%
Max working pressure	8 BAR	9 BAR	10 BAR	11 BAR	12 BAR
Max differential pressure	8 BAR	9 BAR	10 BAR	11 BAR	12 BAR
Max working temperature	38°C	38°C	38°C	38°C	38°C



### APPROXIMATE LIFE OF CARTRIDGE

Iron level in water (ppm)	Total Lt. water used	1000 Lt. day 4 people	500 Lt. day 2 people
5	60,000	60	120
4	83,000	83	166
3	105,000	105	210
2	158,000	158	316
1	310,000	310	620
0.5	620,000	620	1,240

### Note

- 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.
- 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.

## Filter Cartridges

### Resin Line



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

Code	Length inches	Micron	Flow Rate l/hr	Box Qty	Box Wt	Box Dimensions axbxc mm	Price	B
A4150010	9%	40	120	15	11.32	410X290X250	£18.04	
A4150040	20	40	180	15	25.00	410X540X250	£27.76	



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

Code	Length inches	Micron	Flow Rate l/hr	Box Qty	Box Wt	Box Dimensions axbxc mm	Price	B
A4150050	9%	40	270	6	12.13	410X290X250	£33.94	
A4150060	20	40	480	6	28.50	410X540X250	£73.44	



#### IONIC EXCHANGE RESIN CARTRIDGES series R DEMI/PRE-POST 40 MICRON FILTER

Code	Length inches	Micron	Flow Rate l/hr	Box Qty	Box Wt	Box Dimensions axbxc mm	Price	B
A4150070	9%	40	60	15	11.32	410X290X250	£25.22	
A4150080	20	40	96	15	25.00	410X540X250	£42.61	



#### IONIC EXCHANGE RESIN CARTRIDGES series R DEMI BIG/PRE-POST 40 MICRON FILTER

Code	Length inches	Micron	Flow Rate l/hr	Box Qty	Box Wt	Box Dimensions axbxc mm	Price	B
A4150090	9%	40	150	6	12.13	410X290X250	£61.09	
A4150100	20	40	282	6	28.10	410X540X250	£125.95	



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

Code	Length inches	Micron	Flow Rate l/hr	Box Qty	Box Wt	Box Dimensions axbxc mm	Price	B
A4150110	20	40	1440	6	28.10	410X540X250	£136.83	



Code	Description	Price
A6010210	cartridge gasket to fit GAC, CTO, RLA, CV	0.86