



## FILTER CARTRIDGES

# SX, BX, CX

Extensive range of filter cartridges for every application in water filtration and water treatment, made with the most appropriate filtering and treatment media.

- **SX cartridges** fit to standard Atlas Filtri SX housings, as well as most standard housings available from the market.
- **Exclusive BX and CX cartridges with double o-ring collar** fit to proprietary Atlas Filtri BX and CX housings, DP housings, K housings, Depural Top housings.

The cartridges standard heights range from 4" to 50", depending on model and configuration.

The standard filter rates range from Ultra-filtration at 0.02 micron to nominal filtration at 100 micron, providing any kind of filtration requirement. The standard treatment media are made from Granular Activated Carbon (GAC), Carbon Block, Polyphosphate, Ionic Exchange Resins.

Custom made heights, filter rates, treatment media are available on request. Atlas Filtri cartridges are manufactured with the finest and most advanced materials under constant focus on innovative processing technologies and ceaseless modernization to ensure the absolute quality of our products.

A wide range of cartridges are certified under the most stringent certification procedures and standards: TIFQ (Italy), ACS (France), GOST (Russia).

Dedicated accessories are available on demand: FilterFit, centering device which holds cartridges perfectly standing inside DP housings; Containing Sponge, designed to hold in place treatment media for the filling of P type empty cartridges (containers).

# CARTRIDGES CONFIGURATION

FOR FILTERS SX, BX, CX

Atlas Filtri® cartridges are available in a wide range of end-caps configurations to provide:

- the widest compatibility to housings for cartridges with standard configuration SX with flat seals and double open end (DOE). The major part of housings in the market are suitable to this standard.
- a range of quick-fit double o-ring cartridges with proprietary configurations BX, AX, CX to ensure: perfect watertight fit, safer for micro-filtration; simple and rapid maintenance operations; perfect cartridge standing and elimination of wrong positioning; market exclusivity.



## SX

**Standard double open end (DOE) configuration with flat seals.**

Fit to SX housings, DP housings, Depural®, Depural® Top, Bravo DP, Oasis DP.



## BX

**Quick-fit configuration with 45 mm double o-ring collar.**

Fit to Plus 3P BX housings, DP housings, K Plus 3P housings, Depural® Top, Bravo DP, Oasis DP.



## CX

**Quick-fit configuration with 57 mm double o-ring collar.**

Fit to Plus 3P CX and K DP housings.

### CERTIFICATIONS



The products are tested and certified under the most stringent procedures worldwide, achieving the sanitary certification GOST (Russia).

### TERMS LEGEND

#### Filtration

Filter rate in micron.

#### Flow rate

In liters per hour (l/h), the flow rate for ideal filtration using a new cartridge.

#### Average life-span

The average working life of the cartridge. Working life depends on the type of application, and on the level of filtration, the cartridge material, the type of maintenance that can be carried out and, especially, depends on the quality of the water being treated. The quality of the water is an extremely variable factor and thus the average life-span is indicated for a mains water supply with average European potable water characteristics.

#### Maintenance

Type and frequency of applicable maintenance operations.

### WATER TREATMENT PRODUCTS BULK

#### Polyphosphate crystals 10/20

- 0,5 Kg pack
- 1,5 Kg pack
- 25 kg pack

#### Polyphosphate crystals 6/10

- 0,5 Kg pack
- 1,5 Kg pack
- 25 kg pack

#### Granular activated carbon

- 0,3 kg pack
- 20 kg pack

#### Strong cationic resin (softening)

- 25 litres pack

#### Strong anionic resin (anti-nitrates)

- 25 litres pack

#### Mixed bed resin (demineralisation)

- 25 litres pack

### SYMBOLS LEGEND



For domestic use



For technical and industrial use



CB-EC cartridges are the only environmentally friendly carbon block element, made with a proprietary technology reducing green house gas emissions in activated carbon production.

## CARTRIDGES RANGE

### Cartridges for mechanical filtration

#### WASHABLE CARTRIDGES

- RL** - polyester net. Filtration 50 micron.
- RL C** - polyester net. Filtration 50 micron.
- RL A** - stainless steel net. Filtration 70 micron.
- RS** - polyester net. Filtration 50 micron.
- RA** - stainless steel net. Filtration 70 micron.
- SA** - stainless steel net. Filtration 50 micron.

#### FILTRATION IN DEPTH

- FA** - wound polypropylene thread. Filtration from 1 to 100 micron.
- FA HOT** - wound polypropylene thread with special inner core, for hot water. Filtration from 1 to 100 micron.
- CPP** - melt-blown polypropylene smooth.
- PP** - melt-blown polypropylene grooved.
- TS** - polyester fabric. Filtration 50 micron.
- CS** - special paper. Filtration 25 micron.
- GA** - quartzite. Filtration 10 micron.
- AB** - ceramic. Filtration 0,45 micron.
- AC** - polypropylene-borosilicate multi-layer. Filtration 0,2 micron and 0,45 micron.

### Cartridges for water treatment

#### GRANULAR ACTIVATED CARBON

Reduction of chlorine, taste, odour (CTO); volatile organic compounds (VOC) pesticides, insecticides, chlorinated organic compounds.

#### GRANULAR ACTIVATED CARBON

**LA** - granular activated carbon from coconut shell.

#### GRANULAR ACTIVATED CARBON AND FILTER MEDIUM

**FA-CA** - wound polypropylene thread. Filtration from 5 to 100 micron. Granular activated carbon from coconut shell.

**CA** - melt-blown polypropylene. Filtration 25 micron. Granular activated carbon from coconut shell.

**BT CPP LA** - melt-blown polypropylene. Filtration from 1 to 50 micron. Granular activated carbon from coconut shell.

#### ACTIVATED CARBON BLOCK

Reduction of chlorine, taste, odour (CTO); volatile organic compounds (VOC) pesticides, insecticides, chlorinated organic compounds, heavy metals (Pb), bacteria and virus.

**CA SE** - activated carbon block from coconut shell. Filtration from 0,3 to 5 micron.

**CA-SE HF** - activated carbon block from coconut shell and hollow-fiber membranes. Filtration 0,15 and 0.02 micron. Antibacterial.

**CB-EC** - activated carbon block from coconut shell. Filtration from 1 to 10 micron.

#### POLYPHOSPHATE CRYSTALS

Anti-scale treatment

**HA** - polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems, in compliance with UE Directive 80/778.

**BT CPP HA** - melt-blown polypropylene. Filtration from 1 to 50 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems, in compliance with UE Directive 98/83/CE.

**BT RL HA** - polyester net. Filtration 50 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems, in compliance with UE Directive 98/83/CE.

**FA HA** - wound polypropylene thread. Filtration from 5 to 100 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems, in compliance with UE Directive 98/83/CE.

**CPP HA** - melt-blown polypropylene. Filtration 5 and 25 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems, in compliance with UE Directive 98/83/CE.

#### IONIC EXCHANGE RESINS

**QA CF** - cationic resin. Reduction of total hardness.

**QA AF** - anionic resin. Reduction of nitrates.

**QA LM** - mixed bed of cationic and anionic resins. Demineralization.

#### EMPTY CONTAINERS

**P** - containers to be filled up with water treatment products.



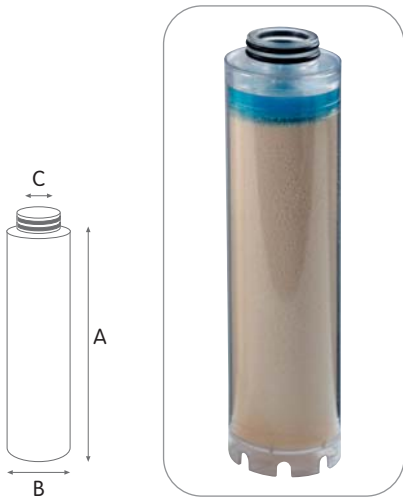
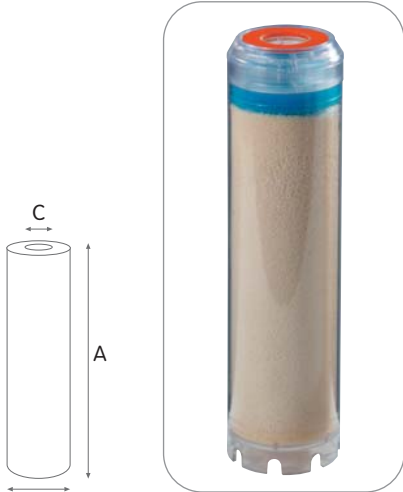
# QA AF anionic resin

**Reduction of nitrates.**

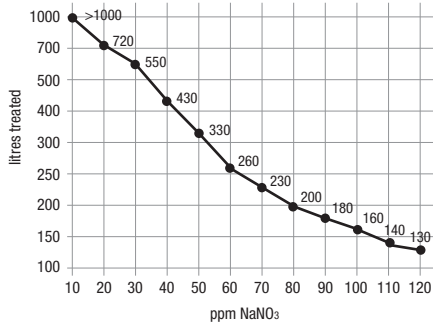
**Average life-span:** see the table below.

**Maintenance:** none.

**Remark -** Use a pre-filter to protect the cartridge.



10" cartridge duration in litres starting from a given water intake carbonates concentration (as CaCO<sub>3</sub> ppm)



**CERTIFICATIONS**

in compliance with  
italian regulation  
D.M. 174/2004

QA AF cartridges are tested and certified under the most stringent procedures worldwide, achieving the **certification of compliance with DM 174/2004.**

**WORKING CONDITIONS**

Max working temperature \_\_\_\_\_ 45°C (113°F)  
 Max concentration NaNO<sub>3</sub> \_\_\_\_\_ 200 ppm  
 Max concentration SO<sub>4</sub> \_\_\_\_\_ 200-300 ppm

**SPECIFICATIONS**

Non-toxic materials, suitable for drinking water.  
 Container, end cap and grid: polystyrene.  
 Flat seal SX: SEBS. O-rings BX: EPDM.  
 Containing sponge: polyurethane.  
 Treatment material: strong anionic resin nitrates-selective.

Plastic container filled with anti-nitrate selective ionic-exchange resin, for the reduction of nitrate content in drinking water. The concentration of nitrates in drinking water below 10 mg/l is strongly recommended by World Health Organization (WHO) guidelines. QA-AF cartridges are available with height from 5" to 20".

**QA AF SX**

**WOUND POLYPROPYLENE THREAD CARTRIDGES WITH DOUBLE OPEN END (DOE)**

CODE	MODEL	NOMINAL HEIGHT	NOMINAL FLOW/RATE l/h	DIMENSIONS MM		
				A	B	C
<b>OD 2,40" x ID 1,10"</b>						
RA5352125	QA 5 AF SX	5"	25	128	70	28
RA5354125	QA 7 AF SX	7"	35	176	70	28
RA5355125	QA 10 AF SX	10"	50	252	70	28
RA5357125	QA 20 AF SX	20"	90	510	70	28

**QA AF BX**

**WOUND POLYPROPYLENE THREAD CARTRIDGES WITH DOUBLE O RING COLLAR 45 MM**

CODE	MODEL	NOMINAL HEIGHT	NOMINAL FLOW/RATE l/h	DIMENSIONS MM		
				A	B	C
<b>OD 2,40" x ID 1,10"</b>						
RA5352225	QA 5 AF BX	5"	25	127	70	25
RA5354225	QA 7 AF BX	7"	35	183	70	25
RA5355225	QA 10 AF BX	10"	50	252	70	25
RA5357225	QA 20 AF BX	20"	90	510	70	25

QA-AF cartridges are available in a variety of:

**CONFIGURATIONS:**

- SX standard configuration double open end (DOE) available for every height and diameter.
- BX proprietary configuration with double o-ring collar 45 mm, suitable to PLUS 3P BX housings, DP housings, K PLUS 3P housings.

**MODELS:**

- QA-AF series from 5" to 20" OD 2.40" ID 1.10", SX, BX configurations.

**FLOW RATE vs PRESSURE DROP Δp**

Tests carried on 10" elements type **QA AF 10 SX**.  
 Testing mode: 20°C, 3 BAR

