

HOUSINGS AND FILTER CARTRIDGES



innovation > technology > future

HOUSINGS AND FILTER CARTRIDGES A WIDE



The need to address problems such as liquid pollution and public health protection drove **SEKO** to create its own line of housings and filter cartridges.

SEKO identified numerous solutions to satisfy the varying needs of water filtration, treatment, and pretreatment for all kinds of applications.

In fact, thanks to a variety of different materials and technical specifications, the proposed solutions ensure a broad number of combinations allowing creation of optimum configurations in full respect of current regulations.

The materials used make **SEKO** housings and filter cartridges suitable for the most common domestic applications, in professional filtration and industrial processes, guaranteeing the elimination of:

- specific suspended particles
- bad odors
- limescale
- corrosive agents

Identifying the ideal solution for specific requirements requires careful analysis of all technical limitations dictated by the application. The variables to be considered are:

- type of liquid
- size of the particles that must be eliminated
- permeability of the material that filters
- loss of pressure in water system
- chemical compatibility
- resistance to operating temperatures
- maintenance costs
- process benefits

SEKO is a world-class filtration system manufacturer, present in all main markets. **SEKO**'s ample R&D capabilities allow us to build the ideal system for your filtration requirements.

RANGE OF PRODUCTS... ...FOR SATISFYING YOUR FILTRATION NEEDS



Housings for filter cartridges

STANDARD

2P Series

4 Medium 5" - Major 9"3/4

3P Series

5 Medium 5" - Major 9"3/4 - Supra 20"

MINI

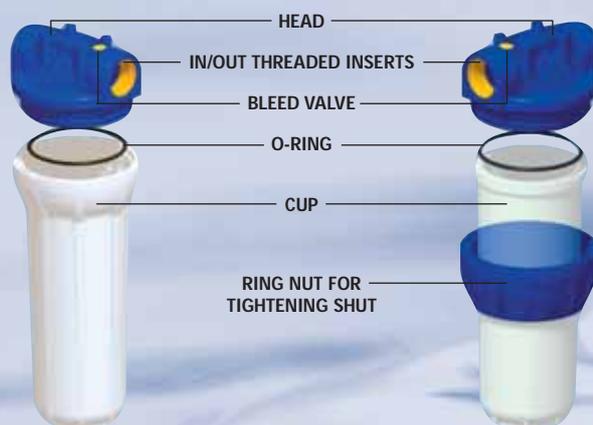
6 Minor 5" Series

6 Micro Series

ANTI-SCALE

Micro SEL Series

7 Dosing unit polyphosphate salt crystals



HOUSINGS FOR FILTER CARTRIDGES

2P Series

Applications

The SEKO 2P Series housings are designed to filter and treat drinking water. They are suitable for:

Domestic applications: filtering and treating drinking water, protecting washing machines, taps, boilers

Industrial applications: protecting pumps, purification systems and reverse osmosis systems with pre-filtration and microfiltration, anti-scale action for heating systems and dosing systems, application in water softening, dechlorination, demineralization systems, and UV sterilization

Operating conditions

Maximum pressure: 8 bar

Minimum temperature: 2 °C

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Head: Loaded polypropylene

IN/OUT threaded inserts and bleed valve: Brass

Cup: SAN or White loaded polypropylene

O-Ring: NBR

Flow rate: from 100 to 230 lt/min

Lifetime test: 200,000 cycles from 0 to 10 bar

Also available with white opaque loaded polypropylene cup, impervious to light

Upon request:

GAS 1/4", 3/8", 1/2", 3/4" or 1" IN/OUT connectors with plastic female thread and polypropylene bleed valve with O-ring

Medium 5"
Maior 9"3/4



HOUSINGS WITH TRANSPARENT OR OPAQUE CUP AND IN/OUT CONNECTORS AND BRASS INSERTS	CARTRIDGE HEIGHT	IN/OUT CONNECTORS	DIMENSIONS A X B (MM)
Medium 2P	5"	1/2"F	190 x 120
Medium 2P	5"	3/4"F	190 x 120
Medium 2P	5"	1"F	190 x 120
Medium 2P	5"	1"1/4F	210 x 125
Medium 2P	5"	1"1/2F	210 x 125
Maior 2P	9"3/4	1/2"F	315 x 120
Maior 2P	9"3/4	3/4"F	315 x 120
Maior 2P	9"3/4	1"F	315 x 120
Maior 2P	9"3/4	1"1/4F	330 x 125
Maior 2P	9"3/4	1"1/2F	330 x 125

Accessories



Spanner wrench

Brass nipple fittings

Wall support

Screws

HOUSINGS FOR FILTER CARTRIDGES

3P Series

Applications

The SEKO 3P Series housings are designed to filter and treat drinking water. They are suitable for:

Domestic applications: filtering and treating drinking water, protecting washing machines, taps, boilers

Industrial applications: protecting pumps, purification systems and reverse osmosis systems with pre-filtration and microfiltration, anti-scale action for heating systems and dosing systems, application in water softening, dechlorination, demineralization systems, and UV sterilization

Operating conditions

Maximum pressure: 8 bar

Minimum temperature: 2 °C

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Head: Loaded polypropylene

IN/OUT threaded inserts and bleed valve: Brass

Cup: SAN or White loaded polypropylene

O-Ring: NBR

Flow rate: from 100 to 230 lt/min

Lifetime test: 200,000 cycles from 0 to 10 bar

Also available with white opaque loaded polypropylene cup, impervious to light

Upon request:

GAS 1/4", 3/8", 1/2", 3/4" or 1" IN/OUT connectors with plastic female thread and polypropylene bleed valve with O-ring

Medium 5"
Maior 9"3/4"
Supra 20"



Accessories



Spanner wrench

Brass nipple fittings

Wall support

Screws

HOUSINGS WITH TRANSPARENT OR OPAQUE CUP AND IN/OUT CONNECTORS AND BRASS INSERTS	CARTRIDGE HEIGHT	IN/OUT CONNECTORS	DIMENSIONS A X B (MM)
Medium 3P	5"	1/2"F	190 x 120
Medium 3P	5"	3/4"F	190 x 120
Medium 3P	5"	1"F	190 x 120
Medium 3P	5"	1"1/4F	210 x 125
Medium 3P	5"	1"1/2F	210 x 125
Maior 3P	9"3/4	1/2"F	315 x 120
Maior 3P	9"3/4	3/4"F	315 x 120
Maior 3P	9"3/4	1"F	315 x 120
Maior 3P	9"3/4	1"1/4F	330 x 125
Maior 3P	9"3/4	1"1/2F	330 x 125
Supra 3P	20"	1/2"F	575 x 120
Supra 3P	20"	3/4"F	575 x 120
Supra 3P	20"	1"F	575 x 120
Supra 3P	20"	1"1/4F	590 x 125
Supra 3P	20"	1"1/2F	590 x 125

HOUSINGS FOR FILTER CARTRIDGES

Minor 5" Series

Applications

The SEKO **Minor Series** housings are designed to filter and treat drinking water. The small size and head with three connectors permits installation even where space is a problem. All of the housings are supplied with a threaded plug complete with O-ring that ensures a perfect seal on the unused connection. They are suitable for:

Domestic applications: Filtering and treating drinking water, protecting washing machines, taps, boilers

Industrial applications: Protecting pumps, purification systems and reverse osmosis systems with pre-filtration and microfiltration, anti-scale action for heating systems and dosing systems, application in water softening, dechlorination, demineralization systems, and UV sterilization

Operating conditions

Maximum pressure: 8 bar
Minimum temperature: 2 °C
Maximum temperature: 50 °C

Characteristics

Non-toxic materials
Head: Loaded polypropylene
IN/OUT threaded inserts: Brass
Cup: SAN and White loaded polypropylene
O-Ring: NBR
Flow rate: 120 lt/min
Lifetime test: 200,000 cycles from 0 to 10 bar



- Also available with white opaque loaded polypropylene cup, impervious to light
- **Upon request:**
 - > GAS 1/2" IN/OUT connectors with plastic female thread
 - > Special probe-socket heads (pH, Redox, Conductivity, Temperature)

Accessories

- Wrench
- Brass nipple fittings
- Screws

HOUSINGS WITH TRANSPARENT OR OPAQUE CUP AND IN/OUT CONNECTORS AND BRASS INSERTS	CARTRIDGE HEIGHT	IN/OUT CONNECTORS	DIMENSIONS A X B (MM)
Minor	5"	1/2"F	175 x 96

Micro Series

Applications

The SEKO **Micro Series** housings are designed for all installations that require a small size and low flow rate management. The connection line, from top to bottom, facilitates sequential insertion with standard G 3/4" connectors. They are suitable for:

Domestic applications: Filtering and treating drinking water, protecting washing machines, taps, boilers

Industrial applications: Protecting microdosing pumps and small purification systems

Operating conditions

Maximum pressure: 8 bar
Minimum temperature: 2 °C
Maximum temperature: 50 °C

Characteristics

Non-toxic materials
Head: Loaded polypropylene
Cup: SAN
O-Ring: NBR
Flow rate: 60 lt/min
Lifetime test: 200,000 cycles from 0 to 10 bar



RLN Micro Series with washable nylon mesh (polyamide) cartridge and **80 µm filtration**



HOUSINGS WITH TRANSPARENT CUP AND IN/OUT PLASTIC CONNECTORS	IN/OUT CONNECTORS	DIMENSIONS A X B (MM)
Micro	3/4"F 3/4"M	140 x 62

DOSING UNIT POLYPHOSPHATE SALT CRYSTALS

Micro SEL Series

Applications

The SEKO **Micro SEL Series** dosing unit is a polyphosphate salt-based system exclusively for domestic use for protecting washing machines and dishwashers from the formation of limescale. Very cheap and easy to install, it lowers energy and detergent consumption, taking the place of expensive anti-scale products.

It is directly assembled with a standard 3/4" connection on the water's supply pipe. The polyphosphate salts dissolved in the water do not lower the concentration of mineral salts but rather inhibit limescale deposits. Current regulations do not permit using polyphosphate salts for drinking water.

Maintenance: Periodically check the level of polyphosphates and replenish if empty

Warning: A pre-filter should be used to protect the dosing unit

Operating conditions

Maximum pressure: 8 bar

Minimum temperature: 2 °C

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Head: Loaded polypropylene

Cup: SAN

O-Ring: NBR

Flow rate: 60 lt/min

Lifetime test: 200,000 cycles from 0 to 10 bar

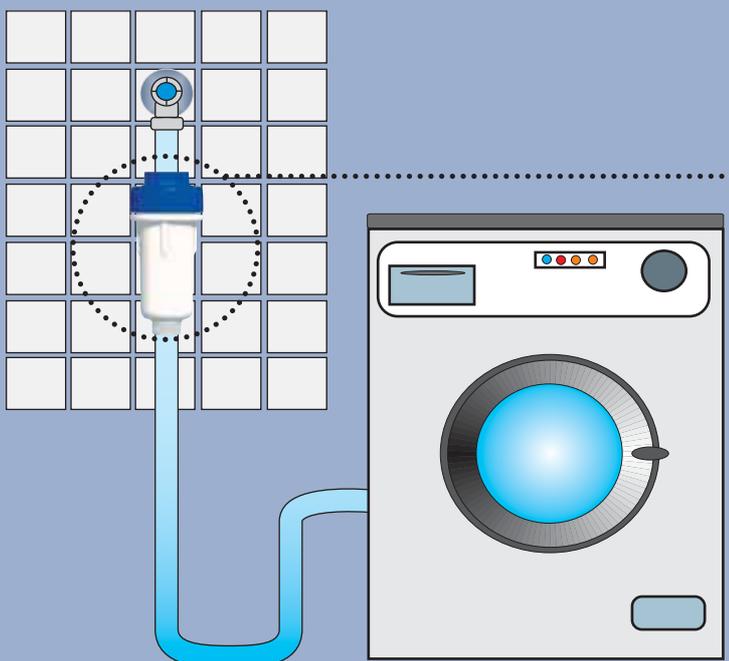
Treatment material:

Polyphosphate crystals (max 12-month storage)



DOSING UNIT	IN/OUT CONNECTORS	DIMENSIONS A X B (MM)	OPTIMUM FLOW RATE (L/H)	AMOUNT OF POLYPHOSPHATE (GR.)
Micro SEL	3/4" F 3/4" M	140 x 62	1000	150

Installation example



Assembly and maintenance are easy: simply insert the dosing unit directly onto the water supply pipe using the 3/4" connectors. Approximately every six months, the polyphosphate should be replaced with **SEKO** refills.

THE RIGHT CHOICE FOR SAFE FILTERING

Filter cartridges

FOR MECHANICAL FILTRATION

THROW-AWAY CARTRIDGES

- 9 **PFA Series** In wound polypropylene yarn
- 9 **PMB Series** In foamed polypropylene (Melt-blown)
- 12 **CLP Series** In pleated paper

WASHABLE CARTRIDGES

- 10 **RLN Series**
Nylon mesh filter (polyamide)
- 10 **RLA Series**
With stainless steel mesh filter
- 11 **RPA Series**
Pleated stainless steel mesh filter
- 11 **PLP Series** In pleated polyester

FOR WATER TREATMENT

ACTIVATED CARBON CARTRIDGES

- 12 **PCA Series** In sintered polypropylene with granular activated carbon
- 13 **CCA Series** In cellulose impregnated with activated vegetable carbon
- 13 **GAC Series** Container with granular activated carbon

CARTRIDGES WITH POLYPHOSPHATE SALTS

- 14 **SEL Series**
Container with polyphosphate salt crystals



FILTER CARTRIDGES



PFA Series THROW-AWAY WOUND POLYPROPYLENE YARN CARTRIDGE

Applications

The **PFA Series** filter cartridges are created by winding a polypropylene yarn onto an internal rigid support. They are suitable for:

Primary filtration of small particles suspended in water (sand, rust, mud, scales)

Domestic use: protection of equipment (washing machines, boilers, furnaces, taps, etc.), filtration of water not destined to drinking (irrigation systems, pools, etc.)

Industrial use: protection of pumps, purification systems and reverse osmosis systems with pre-filtration, applications in the photography, electroplating, chemicals, petrochemistry, and

pharmaceutical industries

Average lifetime: Variable, maximum 6 months

Maintenance: None, replace the cartridge if clogged

Operating conditions

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Filtering material: Polypropylene

Internal support: Polypropylene

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
PFA 5	5"	Medium	128 x 62 x 28	500
PFA 9	9" 3/4	Maior	254 x 62 x 28	1000
PFA 20	20"	Supra	508 x 62 x 28	2000



Available degree of filtration in microns (μm): 1 μm • 5 μm • 10 μm • 20 μm



PMB Series THROW-AWAY "MELT-BLOWN" FOAMED POLYPROPYLENE CARTRIDGE

Applications

The **PMB Series** filter cartridges are made using an innovative technological process that creates an even layer of filtering material. The special arrangement of the fibers guarantees gradual filtration with action that increases from the outside toward the inside. On the whole, the average lifetime and effectiveness of the cartridge is considerably increased. They are suitable for:

Primary filtration of small particles suspended in water (sand, rust, mud, scales)

Domestic use: Protection of equipment (washing machines, boilers, furnaces, taps, etc.), filtration of water destined to drinking as well (softeners, irrigation systems, pools, etc.)

Industrial use: Protection of pumps, purification

systems and reverse osmosis systems with pre-filtration, applications in the photography, electroplating, chemicals, petrochemistry, and pharmaceutical industries, and ultraviolet sterilization systems. Post-filtration for granular activated carbon systems

Average lifetime: Variable, maximum 6 months

Maintenance: None, replace the cartridge if clogged

Operating conditions

Maximum temperature: 50 °C

Characteristics

Non-toxic materials, suitable for drinking water

Filtering material: Polypropylene

Internal support: Polypropylene

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
PMB Minor	5"	Minor	130 x 50 x 23	500
PMB 5	5"	Medium	128 x 64 x 30	750
PMB 9	9" 3/4	Maior	252 x 64 x 30	1500
PFA 20	20"	Supra	508 x 64 x 30	3000



Available degree of filtration in microns (μm): 5 μm • 25 μm

FILTER CARTRIDGES

RLN Series WASHABLE CARTRIDGE WITH NYLON MESH FILTER (POLYAMIDE)



Applications

The **RLN Series** filter cartridges consist of an external hard polypropylene support onto which a nylon mesh filter is incorporated, which permits even filtering with minimum load loss and low risk of clogging. Easily washable, they do not release contaminating particles. They are suitable for:

Primary filtration of particles suspended in water (sand, rust, scales)

Domestic use: Protection of equipment (washing machines, boilers, furnaces, taps, etc.), filtration of water destined to drinking as well (softeners, irrigation systems, pools, etc.)

Industrial use: Protection of pumps, purification

systems and reverse osmosis systems with pre-filtration, applications in the agriculture

Average lifetime: Variable, maximum 24 months

Maintenance: Wash every 3 months

Operating conditions

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Filtering material: Nylon (polyamide)

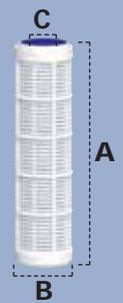
External support: Polypropylene

Caps: Polypropylene

Seals: EPDM

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
RLN Micro	-	Micro	97 x 39 x 28	-
RLN Minor	5"	Minor	129 x 50 x 27	500
RLN 5	5"	Medium	128 x 62 x 28	800
RLN 9	9"3/4	Maior	254 x 62 x 28	1600
RLN 20	20"	Supra	508 x 62 x 28	3000

Available degree of filtration in microns (μm): **Minor** 20 μm • 80 μm
5" 80 μm • 250 μm - 9"3/4 e 20" 80 μm • 250 μm • 430 μm



RLA Series WASHABLE CARTRIDGE WITH STAINLESS STEEL MESH FILTER



Applications

The **RLA Series** filter cartridges consist of a stainless steel mesh filter secured onto a hard internal support, closed with polypropylene or steel caps. Easily washable, they may be restored through: mechanical action, backwashing, chemical cleaning.

They are suitable for:

Primary filtration of particles suspended in water (sand, rust, scales)

Domestic use: Protection of equipment (washing machines, boilers, furnaces, taps, etc.), filtration of water not destined to drinking (irrigation systems, pools, etc.)

Industrial use: Protection of pumps, purification systems and reverse osmosis systems with

pre-filtration, suitable for applications with hot water and filtration of brackish water

Average lifetime: Maximum 5 years

Maintenance: Wash every 3 months

Operating conditions

Maximum temperature: 50° C
(90 °C with steel caps)

Characteristics

Non-toxic materials

Filtering material: AISI 316 stainless steel

Internal support: AISI 316 stainless steel

Caps: Polypropylene or steel

Seals: PVC

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
RLA 5	5"	Medium	128 x 70 x 27	800
RLA 9	9"3/4	Maior	252 x 70 x 27	1600
RLA 20	20"	Supra	505 x 70 x 27	300

Available degree of filtration in microns (μm): **70 μm**

Upon request, cartridges with various degrees of filtration are available for minimum quantities



FILTER CARTRIDGES

RPA Series WASHABLE CARTRIDGE WITH PLEATED STAINLESS STEEL MESH FILTER



Applications

The **RPA Series** filter cartridges consist of a pleated stainless steel mesh filter secured onto a hard internal support, closed with polypropylene or steel caps. The larger filtering surface permits more efficient filtering and a longer lifetime. Easily washable, they may be restored through: mechanical action, backwashing, chemical cleaning. They are suitable for:

Primary filtration of particles suspended in water (sand, rust, scales)

Domestic use: Protection of equipment (washing machines, boilers, furnaces, taps, etc.), filtration of water not destined to drinking (irrigation systems, pools, etc.)

Industrial use: Protection of pumps, purification

systems and reverse osmosis systems with pre-filtration, suitable for applications with hot water and filtration of brackish water

Average lifetime: Variable, maximum 5 years

Maintenance: Wash every 3 months

Operating conditions

Maximum temperature: 50° C
(90 °C with steel caps)

Characteristics

Non-toxic materials

Filtering material: AISI 316 stainless steel

Internal support: AISI 316 stainless steel

Caps: Polypropylene or steel

Seals: PVC

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
RPA 5	5"	Medium	128 x 70 x 27	1100
RPA 9	9" 3/4	Maior	252 x 70 x 27	2200
RPA 20	20"	Supra	505 x 70 x 27	3800

Available degree of filtration in microns (µm): **70 µm**

Upon request, cartridges with various degrees of filtration are available for minimum quantities



PLP Series WASHABLE PLEATED POLYESTER CARTRIDGE

Applications

The **PLP Series** filter cartridges consist of a pleated polyester septum filter secured onto an internal rigid support. To guarantee compactness and resistance, an external polypropylene cage is applied. Its entirety is then sealed with polypropylene caps. Easily washable, they do not release contaminating particles.

They are suitable for:

Primary filtration of particles suspended in water (sand, rust, scales)

Domestic use: Protection of equipment (washing machines, boilers, furnaces, taps, etc.), filtration of water destined to drinking as well (softeners, irrigation systems, pools, etc.)

Industrial use: Protection of pumps, purification

systems and reverse osmosis systems with pre-filtration

Average lifetime: Variable, maximum 24 months

Maintenance: Wash every 3 months

Operating conditions

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Filtering material: Polyester

Internal support: Polypropylene

External support: Polypropylene

Caps: Polypropylene

Seals: PVC

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
PLP 5	5"	Medium	128 x 70 x 27	1100
PLP 9	9" 3/4	Maior	252 x 70 x 27	2200
PLP 20	20"	Supra	505 x 70 x 27	3800

Available degree of filtration in microns (µm): **50 µm**



FILTER CARTRIDGES

CLP Series THROW-AWAY PLEATED PAPER CARTRIDGE



Applications

The **CLP Series** filter cartridges consist of a pleated cellulose septum filter secured onto an internal rigid support. To guarantee compactness and resistance, an external polypropylene cage is applied. Its entirety is then sealed with polypropylene caps.

They are suitable for:

Primary filtration of particles suspended in water (sand, rust, scales)

Domestic use: Protection of equipment (washing machines, boilers, furnaces, taps, etc.), filtration of water destined to drinking as well (softeners, irrigation systems, pools, etc.)

Industrial use: Protection of pumps, purification

systems and reverse osmosis systems with pre-filtration

Average lifetime: Variable, maximum 6 months

Maintenance: None

Operating conditions

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Filtering material: Cellulose

Internal support: Polypropylene

External support: Polypropylene

Caps: Polypropylene

Seals: PVC

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
CLP 5	5"	Medium	128 x 70 x 27	1000
CLP 9	9" 3/4	Maior	252 x 70 x 27	2000
CLP 20	20"	Supra	505 x 70 x 27	3500



Available degree of filtration in microns (µm): 20 µm

PCA Series THROW-AWAY SINTERED POLYPROPYLENE CARTRIDGE WITH ACTIVATED GRANULAR CARBON



Applications

The **PCA Series** filter cartridges consist of a sintered polypropylene septum filter with granular activated carbon inside, compressed for vibration. Its entirety is then sealed with polypropylene caps.

They are suitable for:

Elimination of chlorine and chlorinated compounds; reduction of pesticides, insecticides and other organic compounds

Elimination of odors and tastes

Domestic use: For drinking water, only if combined with equipment approved by current regulations, for the anti-chlorine treatment of washing machines, showers, and other installations for water not destined to drinking

Industrial use: Anti-chlorine treatment for food, chemical, pharmaceutical industries and the protective pretreatment of reverse osmosis membranes

Average lifetime: Variable, maximum 3 months

Maintenance: None

Operating conditions

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Filtering material: Polypropylene

Internal support and caps: Polypropylene

Seals: PVC

Treatment material: Activated granular coconut carbon

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
PCA 5	5"	Medium	128 x 70 x 27	300
PCA 9	9" 3/4	Maior	252 x 70 x 27	600
PCA 20	20"	Supra	505 x 70 x 27	1200



Available degree of filtration in microns (µm): 20 µm

FILTER CARTRIDGES

CCA Series THROW-AWAY CELLULOSE CARTRIDGE IMPREGNATED WITH ACTIVATED VEGETABLE CARBON



Applications

The **CCA Series** filter cartridges consist of a piece of cardboard treated with activated carbon, wound around a hard polypropylene support. To guarantee compactness and resistance, an external polypropylene cage is applied. Its entirety is then sealed with polypropylene caps. They are suitable for:

Elimination of chlorine and chlorinated compounds; reduction of pesticides, insecticides and other organic compounds

Elimination of odors and tastes

Domestic use: For drinking water, only if combined with equipment approved by current regulations, for the anti-chlorine treatment of washing machines, showers,

and other installations for water not destined to drinking

Industrial use: Anti-chlorine treatment for the food, chemical, pharmaceutical industries and the protective pretreatment of reverse osmosis membranes

Average lifetime: Variable, maximum 3 months

Maintenance: None

Operating conditions

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Internal support and caps: Polypropylene

Seals: PVC

Treatment material: Activated vegetable carbon

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
CCA 5	5"	Medium	128 x 70 x 27	300
CCA 9	9" 3/4	Maior	252 x 70 x 27	600
CCA 20	20"	Supra	505 x 70 x 27	1200



Available degree of filtration in microns (µm): 20 µm

GAC Series THROW-AWAY CARTRIDGE CONTAINER WITH ACTIVATED GRANULAR CARBON



Applications

The **GAC Series** filter cartridges consist of an SAN container filled with activated granular coconut vegetable carbon. Two sponges guarantee containment of the granules, preventing the release of residues. They are suitable for:

Elimination of chlorine and chlorinated compounds; reduction of pesticides, insecticides and other organic compounds

Elimination of odors and tastes

Domestic use: For drinking water, only if combined with equipment approved by current regulations, for the anti-chlorine treatment of washing machines, showers, and other installations for water not destined to drinking

Industrial use: Anti-chlorine treatment for food, chemical, pharmaceutical industries and the protective pretreatment of reverse osmosis membranes

Average lifetime: Variable, maximum 3 months

Maintenance: None

Warning: A pre-filter should be used to protect the cartridge

Operating conditions

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Container and caps: SAN

Seals: PE

Containment sponge: Polyurethane

Treatment material: Activated granular coconut carbon

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
GAC 5	5"	Medium	130 x 70 x 27	300
GAC 9	9" 3/4	Maior	250 x 70 x 27	400
GAC 20	20"	Supra	510 x 70 x 27	400



Upon request, opaque polypropylene containers are available for minimum quantities. Various refill sizes of activated granular coconut carbon are available

FILTER CARTRIDGES

SEL Series THROW-AWAY CARTRIDGE CONTAINER WITH POLYPHOSPHATE SALT CRYSTALS



Applications

The **SEL Series** filter cartridges consist of a SAN container filled with polyphosphate salt crystals in various sizes. Two sponges guarantee salt containment, preventing release of solid residues. Treatment with polyphosphate salts is a simple, effective, and low-cost solution to limescale deposits problems. The salts dissolved in the water inhibit the accumulation of deposits. If used in high concentrations, they contribute to break-up of existing deposits, forming a thin film that protects installations from corrosion.

They are suitable for:

Domestic use: Protection of pipes, taps, washing machines, boilers

Industrial use: Protection of furnaces, heat exchangers, reverse osmosis membranes, industrial systems, and other installations

May not be used for treating water used for food or destined to drinking

Average lifetime: Variable, maximum 3 months

Maintenance: None

Warning: A pre-filter should be used to protect the cartridge.

Operating conditions

Maximum temperature: 50 °C

Maximum hardness: 50 °F (500ppm CaCO₃)

Warning: The treated water may be heated up to 70°-80°C; above this temperature the polyphosphate loses its effectiveness

Characteristics

Non-toxic materials

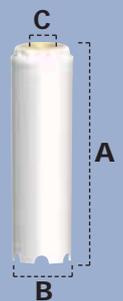
Container and caps: SAN

Seals: PE

Containment sponge: Polyurethane

Treatment material: Sodium polyphosphate crystals (max 12 month storage)

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
SEL 5	5"	Medium	130 x 70 x 27	1000
SEL 9	9" 3/4	Maior	250 x 70 x 27	1400
SEL 20	20"	Supra	510 x 70 x 27	1400



Upon request, opaque polypropylene containers are available for minimum quantities. Various refill sizes of polyphosphate salt crystals are available

PSA Series EMPTY CONTAINER



Applications

The empty **PSA Series** containers are made of SAN and contain two containment sponges for filling with materials for the chemical-physical treatment of water.

Operating conditions

Maximum temperature: 50 °C

Characteristics

Non-toxic materials

Container: SAN

Caps: SAN

Seals: PE

Containment sponge: Polyurethane

CARTRIDGE MODEL	CARTRIDGE HEIGHT	HOUSING MODEL	DIMENSIONS A X B X C (MM)	OPTIMUM FLOW RATE (L/H)
PSA 5	5"	Medium	128 x 70 x 27	-
PSA 9	9" 3/4	Maior	252 x 70 x 27	-
PSA 20	20"	Supra	505 x 70 x 27	-



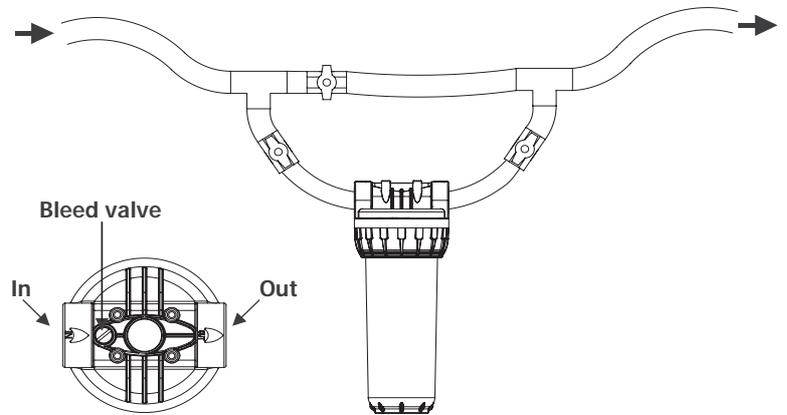
Upon request, opaque polypropylene containers are available for minimum quantities

GENERAL RULES OF USE AND INSTALLATION

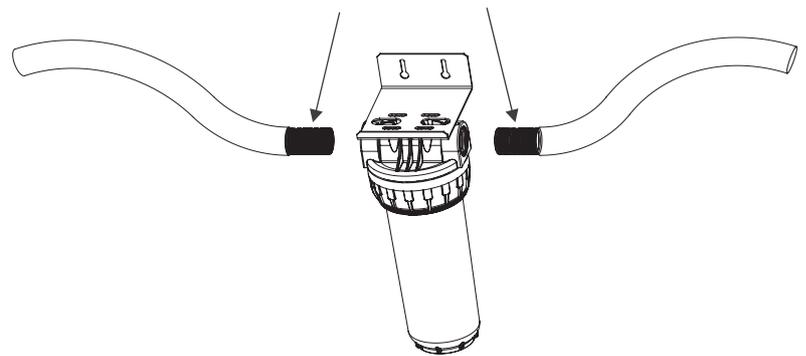
The products must be installed and maintained in accordance with the instructions contained in the **INSTALLATION SHEET** included in the packages of the housings; otherwise the warranty terms will become void.

In particular:

- Observe the indicated operation pressure limits. If higher pressures or sudden and frequent water hammering are foreseeable, install a pressure reducing system prior to the housing
- Use with liquids at room temperature (20- 25°C) or, in any case, within the indicated limits: If installed on a furnace, a non-return valve should be used in order to prevent boiling water from returning into the housing
- Do not store or install in places exposed to intense cold or very high temperatures since these conditions could jeopardize performance and cause breakage
- Do not use with liquids containing aggressive pH solutions such as chemical products, solvents, detergents, etc. The filter cartridge housings with SAN transparent cups must only be used for treating liquids with a neutral pH
- If the substances stated above are present, only housings with opaque polypropylene cups should be used. Their use is likewise recommended for installations with constant exposure to light, in order to prevent bacterial proliferation in the treated liquid
- Do not use for filtering compressed air or gas, even at low pressures
- In the case of wall installation:
 1. Secure the housings using the provided wall supports
 2. To prevent stressing of the pipes, connect the housings to the pipes using hose assemblies
 3. Always use GAS fittings with cylindrical threads: do not use conical fittings or pipes directly threaded onto the housing
 4. Provide enough space for carrying out maintenance and replacing filter cartridges
- To isolate the system and keep the supply of water possible during routine maintenance operations or in the case of breakage, provide for a by-pass system: A tap for verifying the quality of the treated water should also be installed
- Do not use sealing pastes, hardening liquids, silicones, hemp, etc., during installation. Use only Teflon tape



Apply Teflon tape to guarantee the seal of the threads: the use of sealing liquids or hemp is not recommended.



MAINTENANCE

- The housings must be completely tightened: Check before starting the system to prevent water leaks
- The housings should only be cleaned with a sponge and running water each time work is done on the filter cartridge or when it is replaced: avoid the use of detergents, solvents, alcohol, and any other common household cleansing agents
- If the housing accidentally falls during cleaning or maintenance, it should be replaced since the drop could cause microcracks, not visible to the naked eye, that over time could cause the housing itself to break completely
- If not used for more than one week, especially during very hot periods, when used again for the first time run the water for several minutes so that any formation of bacterial flora flows out

REPLACING THE FILTER CARTRIDGE

- To replace or wash the filter cartridge inserted in the housing, follow the instructions reported in the technical specifications of the cartridge itself
- Isolate the housing from the water mains or activate the by-pass, if present
- Unscrew the bleed valve located on the housing's head in order to release the pressure and facilitate unscrewing by using the provided wrench. Proceed by replacing and retightening, making sure that the O-ring is in its housing and the cartridge is properly positioned. Restart the water mains, keeping the bleed valve open until all of the air has been released and then close it



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