Distributed By:
Water Filters Pty Ltd
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SEV 34 Water Softener With Pre-Filtration System

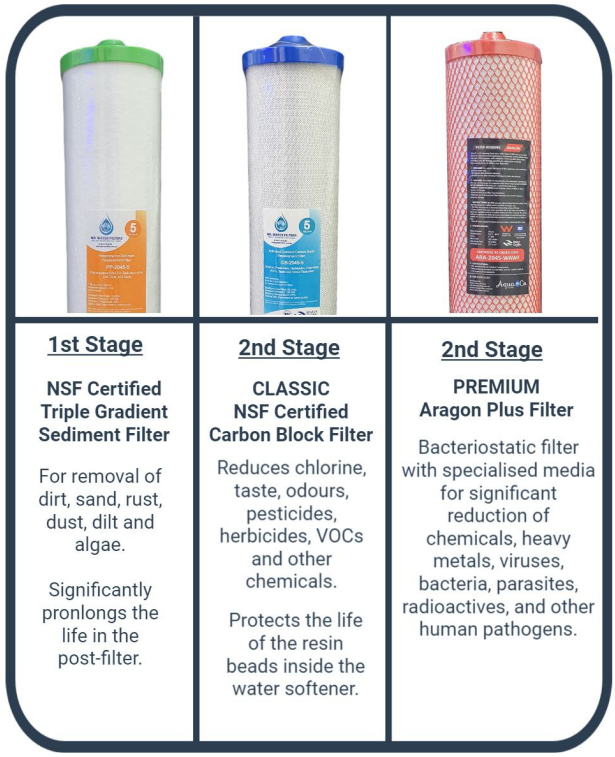
The stainless steel enclosure in the pre-filtration system is corrosion resistant and protects the system from UV rays, sun damage and extreme conditions. Reflects sunlight whilst keeping low temperature in summer.

DIMENSIONS

Media Tank:
330 W x1370 H x 330 D mm
Brine Tank:
460 W x1020 H x 460 D mm
Pre-Filtration System:
400 W x 740 H x 220 D mm

SPECIFICATIONS

Operating Flow Rate:50 LPM
Connection Type: 1" or 3/4" Ports
Operating Pressure: 8.6 Bar
Operating Temperature: 2°C - 60°C



1st Stage	2nd Stage	2nd Stage
NSF Certified Triple Gradient Sediment Filter	**CLASSIC NSF Certified Carbon Block Filter**	**PREMIUM Aragon Plus Filter**
For removal of dirt, sand, rust, dust, dilt and algae. Significantly pronlongs the life in the post-filter.	Reduces chlorine, taste, odours, pesticides, herbicides, VOCs and other chemicals. Protects the life of the resin beads inside the water softener.	Bacteriostatic filter with specialised media for significant reduction of chemicals, heavy metals, viruses, bacteria, parasites, radioactives, and other human pathogens.

Every year the filter cartridges should be replaced. However, replacement frequency depends on water quality and usage.

Information Guide

1. Thank you and congratulations on your Automatic Water Softener purchase. Please read these instructions carefully prior to installation.

2. For right operation of this water filter system, it is vital to observe the manufacturer's instruction. This system has to be mounted in vertical position and must be positioned to allow access for annual filter cartridges replacement and services.

3. After completing the installation, the installer should inspect for leaks and correct if necessary.

WARNING:
DO NOT USE THE THREAD SEALANTS:
Thread tape only is permitted. If thread sealants are used all warranty is void.

Pressure Gauge or Plug Installation:
When installing pressure gauges, hand tight (no tape, no sealant).

Note:
- This product must be installed by a licensed plumber, unauthorised installation on this unit will void warranty.
- Filter housing must be protected against freezing.
- Must be operated under recommended pressure.
- Do not install filter housings to direct sunlight without our cover.

What's included?
- 3 Stage Pre-Filtration system
- 1 x 20″ x 4.5″ NSF Certified Triple Gradient Sediment Filter
- 1 x 20″ x 4.5″ NSF Certified Carbon Block Filter
  OR 1 x 20″ x 4.5" Aragon for Premium Filtration
- 1 x Stainless Steel Frame
- 1 x Stainless Steel Cover*
- 1 x Stainless Steel Bracket
- 1 x Stainless Steel Glass/Pressure Gauges
- 1 x Tool Opening - Spanner
- Pressure Relief Buttons
- 2 x Brass reinforced ports for maximum durability
- 34,000 Litres Capacity Water Softener

Optional:
- Compact Reverse Osmosis System (Fluoride Reduction)
- Stainless Steel Cover (Required for outdoor installations)

System Qualities:
✓ Stainless steel cover for UV protection and extend system life
✓ Heavy-duty brass reinforced connections for high water pressure
✓ Stainless steel pressure gauges for easy monitoring
✓ Twist off housings for quick filter changes
✓ 20" filters for higher capacity compared to 10" filters

Water Quality Association
5 YEARS WARRANTY
WaterMark

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PRE-FILTRATION SYSTEM SERVICE GUIDE

WA WATER FILTERS thanks you for purchasing the pre-filtration system for the water softener. The filter cartridges need to be replaced regularly to maintain optimum performance. This is a simple procedure when following instructions.

To order cartridge replacements or service, please contact our sales team at (08) 6156 0220

Annual replacement approximate cost
Classic: Sediment andCarbon $165*
Premium: Sediment and Aragon $299*

1st Stage	2nd Stage	2nd Stage
NSF Certified Triple Gradient Sediment filter 20" x 4.5" (PP-2045-5-WAWF): Every Year	Classic: NSF Certified Silver Carbon Filter 20" x 4.5" (CB-2045-5-WAWF): Every Year	Premium: Aragon Plus Filter 20" x 4.5" (ARA-2045-WAWF): Every Year

Every year all filter cartridges should be replaced. However, replacement frequency depends on water quality and usage.

To do any service or maintenance in your Pre-Filtration System, close the valve 1 and 2. (This setting does not allow water to go into the property)

To allow unfiltered water going into the property while gardening or filling out the pool, close valve 1 and 3, and open valve 2.

PROCEDURE

1. Close the bypass: Close the valves going in and out of the filter system (1 and 3) and open the valve #2 to allow unfiltered water going into the property. Otherwise, you can leave the valve #2 closed (Figure 1).

2. Softly press one of the red buttons on top of the bracket to release the pressure.

3. Open the housings: Slide the spanner underneath the first housing and twist the housing counterclock wise. Once is unlocked, unscrew the housing using both hands (Figure 2).

Note: Be careful as the housing will be full of water and quite heavy.

4. Remove the housing, take the old filter cartridge out and empty the housing.

5. Remove the plastic/packaging from the new filter cartridge and drop the new filter cartridge in the housing.

6. Screw in the filter housing using both hands and tighten it with the spanner.

7. Repeat the same process with the other filters housings.

8. Once you have replaced all filter cartridges, leave system valves as they were in the initial position:

- Valve 1 Open
- Valve 2 Close
- Valve 3 Open

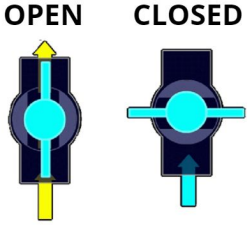

Figure 3. Valve close and open direction

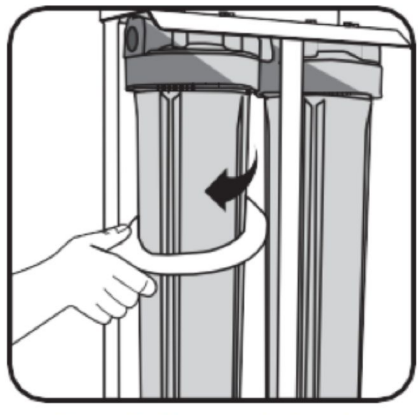

Figure 2. Unscrew the housing counterclock wise

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SEV 34 Automatic Water Softener

Product Description: Water softeners are typically used for removing calcium carbonate, manganese, iron and hardness from water sources and are regenerated by brine solutions. The treated water is soft and non scaling/staining. Commercial systems are available in single or twin (duplex) models and domestic units are available in cabinet style models.

SPECIFICATIONS

Type	Automatic Water Softener	
Description	Self standing pressure vessel (blue) with top mounted valve and separate brine tank (black)	
Capacity	34,000 litres at 100 mg/l hardness	
Media Tank	13" (33cm) x 54" (137cm) wound fibreglass pressure vessel	
Resin Capacity	56 litres of fine mesh cation resin	
Control Valve	Fleck 5800 electronic 5 stage regeneration fully adjustable functions Microprocessor control	
Brine Tank	18" (46cm) x 40" (102cm) with lid	
Flow Rate	Continuous Peak	40 litres per minute 50 litres per minute
Pressure	Maximum Minimum	600 kpa (85psi) 175 kpa (25psi)
Pipe Sizes	Inlet/outlet Drain	3/4" (20mm) 1/2" (15mm)
Salt Usage	8kg per regeneration	
Voltage	240 volts with 24 volts step down transformer	

Note: Product specifications are a guide only and can change without notice.

Salt Usage ► 8kg per regeneration. Every regeneration occurs every 34,000 litres at 100ppm.

CONDITIONS

WARRANTY does not cover faults arising from the following causes:
1. Appliance is not installed in accordance with the Company's installation instructions.
2. Accident, alteration, negligence, abuse, misuse, flood, fire or act of God.
3. If repairs are conducted by any person not approved by the Company.
4. Operation at water pressures higher than 600kpa

WHERE TO INSTALL

Water softeners are designed to treat the water supply to the entire home and therefore need to be connected to the main water supply to the property. It is advisable to segregate garden taps if possible. During regeneration a pre-determined capacity of saline water will be discharged to drain necessitating connection to a sewer/ deep drain rather than to a storm water drain. Automatic models require a 240V general power outlet to operate – semi automatic models do not.
Automatic models are supplied with all parameters pre-set apart from the time of day. The time of day can be set by pushing the "arrow up" or "arrow down" buttons until the correct time is displayed. No adjustments are required for semi-automatic models.

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SEV 34 Automatic Water Softener FAQ's

Salt Compartment

Salt Usage ►8kg per regeneration. Every regeneration occurs every 34,000 litres at 100ppm.

What type of salt is required?

Softener Salt
Used to top up the tank regularly. Keep the brine tank at least a third full at all times.

Microprocessor Controller

1. Determines how many litres have passed through the softener.
2. Used to schedule pre-set regenerations.
3. Performs automatic regenerations.

Brine Tank
Filled with softener salt. Used to create a brine solution to re-charge and rinse the resin.

Ion Exchange Resin Cylinder
Contains Ion Exchange Resin & Gravel. Removes hardness (calcium and magnesium).

Why does the water softener require a pre-filter?

Installing a pre-filter prior to the water softener will prevent chlorine from entering the water softener.

Whilst the softening resin can tolerate some chlorine, the lifespan of the resin will be significantly prolonged if a carbon pre-filter installed prior to the softener.

Depending on the initial water quality being supplied to the softener it may be diligent to install a sediment and carbon pre-filter.

Pre-Filters should be replaced every year to protect the life span of the resin. However, this depends on water quality and water usage.

Why do softeners use salt?

Salt is used purely as a regenerate to wash accumulated hard-water salts to drain and to recharge the softening resin. The softening process relies on resin releasing sodium to make the water soft.

When salt (sodium chloride) is passed through the softening resin, the sodium is used to re-charge the resin and the chloride combines with accumulated hard-watersalts. They are reconstituted as insoluble salts that can then be washed to drain as part of the regeneration cycle.

The brine solution created by the salt is used only during the regeneration cycle. The brine water is rinsed from the resin bed with fresh water during the last stage of the regeneration cycle before the water softener is returned to service.

Once a supersaturated brine solution has been formed, the salt automatically stops dissolving. The level of water in the brine tank (softener cabinet) is preset and this determines the amount of brine that will be formed. In summary, the brining process happens automatically – all you need to do is to add salt.

When will I need to replenish the salt in the brine tank?

As a general rule it is diligent to keep the brine tank at least a third full at all times. If a brined tank is empty this could mean that the water softener has not been regenerating properly therefore will not work as required.

NOTE: Before adding a new bag of salt, it is a good idea to stir up the existing salt to prevent it from compacting. The rounded end of a broom handle is ideal for this.

When does a softener need to be regenerated?

The softener capacity is dependent on a combination of the amount of water being treated and the hardness of water being softened. Automatic water softeners regenerate once the pre-set capacity is reached.

How long should the softener regenerate for?

For optimum results it is important not to reduce regeneration times below that are recommended for your water softener. Doing so may have a detrimental impact on the softening resin or and/or allow salty water through to service.

The recommended time for regeneration is 90 minutes.