

## Automatic Water Softener With Pre-Filtration System



### SPECIFICATIONS

Water Softener Dimensions:  
470 W x 1100 H x 340 D mm  
Pre-Filtration Dimensions:  
600 W x 740 H x 220 D mm  
Operating Flow Rate:  
50 LPM  
Connection Type:  
1" or 3/4" Ports  
Operating Pressure:  
8.6 Bar  
Operating Temperature  
2°C - 60°C

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.

### 1st Stage



**NSF Certified Triple Gradient Sediment Filter**

For removal of dirt, sand, rust, dust, silt and algae.

Significantly prolongs the life in the post-filter.

### 2nd Stage



**NSF Certified Coconut Shell Carbon Filter**

Bacteriostatic filter that inhibits the reproduction of bacteria within the filter and reduces chlorine, taste, odours, pesticides, herbicides, VOCs and other chemicals.



**Double Layered Aragon Filter (Aragon Polymers on the outside and coconut shell carbon in the core)**

Combines assisted crystallization, coconut shell carbon, disinfection and bacteriostatic properties for significant reduction of chemicals, heavy metals, viruses, bacteria, parasites, radioactives, and other human pathogens.



## 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?

- 2 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 Filter for Classic Filtration 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
- 17,000 Litres Capacity Water Softener

### Optional:

- Compact Reverse Osmosis System (Fluoride Reduction)
- Stainless Steel Cover (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



## Automatic Water Softener SEV17



**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	One piece roto moulded plastic cabinet with lid, containing salt and brine storage all in the unit	
Capacity	17,000 litres at 100 mg/l hardness	
Resin Capacity	28 litres of high grade softening resin	
Control Valve	Fleck 5000 microprocessor 5 stage with regeneration All functions fully adjustable Valve controls brine refill	
Pressure Vessel	Thermowound fibreglass with blow moulded seamless liner	
Flow Rate	Continuous	35 litres per minute
	Peak	40 litres per minute
Pressure	Maximum	600 kpa (85psi)
	Minimum	175 kpa (25psi)
Pipe Sizes	Inlet/outlet	3/4" (20mm)
	Drain	1/2" (15mm)
Salt Storage	50kg capacity	
Salt Usage	4.5kg per regeneration	
Dimensions	1100mm (h) x 470mm (w) x 340mm (d)	
Weight	47kg (dry)	
Voltage	240 volts operation	

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

### 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.

Salt Usage ► 4.5kg per regeneration. Every regeneration occurs every 8,500 litres at 200mg/l of hardness (2-3 months).

**5 YEARS WARRANTY**



## Automatic Water Softener FAQ's



### Salt Compartment

Salt Usage ► 4.5kg per regeneration. Every regeneration occurs every 17,000 litres at 100mg/l of hardness (3-4 weeks depending on water usage).

### What type of salt is required?

Water Softener Salt



### 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.






## PRE-FILTRATION SYSTEM SERVICE GUIDE

AquaCo 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  
Standard: Sediment and Silver Carbon \$180\*  
Premium: Sediment and Aragon \$299\*

1st Stage	2nd Stage	
		
<b>SEDIMENT</b>	<b>SILVER CARBON</b>	<b>ARAGON</b>
20" x 4.5" (PP-2045-5-WAWF)	20" x 4.5" (SCB-2045-5-WAWF)	20" x 4.5" (ARA-2045-WAWF):
Every 12-18 Months (Dependant on water quality)	Every 12-18 Months	Every 12-18 Months

Every 18 months all filter cartridges should be replaced. However, replacement frequency also depends on water quality and usage.

**To do any service in your Pre-Filtration System, close the valve 1 and 2.**

To allow unfiltered water going into the property while servicing the system, close valve 1 and open valve 2.



Valves 1 and 3 remain open. Valve 2 remain close.

## PROCEDURE

- 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).
  - Softly press one of the red buttons on top of the bracket to release the pressure.
  - 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.*
- Remove the housing, take the old filter cartridge out and empty the housing.

- Remove the plastic/packaging from the new filter cartridge and drop the new filter cartridge in the housing.
- Screw in the filter housing using both hands and tighten it with the spanner.
- Repeat the same process with the other filters housings.
- 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

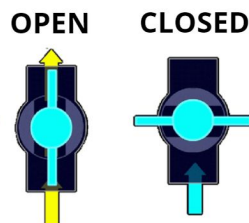


Figure 3. Valve close and open direction

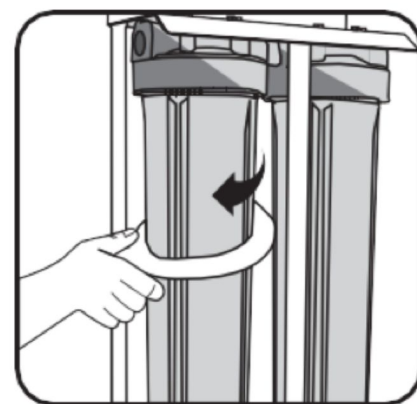


Figure 2. Unscrew the housing counterclock wise