



Whole-House Water Softener

Owner's Guide & Reference Manual



Soft water at every tap. Protects your home, your appliances, and your skin.

Table of Contents

PART 1 Safety & Compliance

PART 2 System Overview & Specifications

PART 3 Operation & Indicators

PART 4 Advanced Operation

PART 5 Maintenance & Salt Management

PART 6 Troubleshooting

PART 7 Warranty, Service Record & Contact

PART ONE SAFETY & COMPLIANCE

Read before installation, operation, or service

1.1 Important Safety Instructions

This manual contains critical information for the safe installation, operation, and maintenance of your Life Filtration system. Failure to follow these instructions may result in personal injury, property damage, or voiding of your warranty. All installation and servicing must be performed by a trained Life Filtration professional.

⚠ WARNING

ELECTRICAL HAZARD — Disconnect power from the unit before performing any service or maintenance. Do not operate the system with a damaged power cord, plug, or adapter. Contact Life Filtration for any electrical component replacement.

⚠ WARNING

WATER QUALITY — This system is NOT intended for use with water that is microbiologically unsafe or of unknown quality without adequate pre-disinfection. Do not connect to non-potable water sources.

◆ CAUTION

CHILDREN & VULNERABLE PERSONS — This appliance is not intended for use by children or persons with reduced physical, sensory, or mental capabilities without direct supervision.

◆ CAUTION

APPROVED PARTS ONLY — Use only Life Filtration certified replacement filters and components. Use of unauthorized parts may reduce performance, void your warranty, and create safety hazards.

◆ CAUTION

PRESSURE LIMITS — Never exceed the maximum operating pressure specified for your system. Install a pressure-reducing valve if your inlet pressure exceeds the rated maximum.

1.2 Before You Begin

Pre-Installation Checklist

- Verify that your water supply meets the inlet pressure and temperature requirements.
- Confirm your home's plumbing connections match the system's inlet/outlet specifications.
- Check and comply with all applicable local plumbing codes and ordinances.
- Have your water tested by a Life Pro before installation to identify any pre-treatment needs.
- Ensure a certified Life Filtration technician performs the installation.

NOTE Life Filtration provides free professional installation with every system. Do not attempt self-installation. Improper installation may void your warranty and cause property damage.

PART TWO SYSTEM OVERVIEW & SPECIFICATIONS

How your system works and what it delivers

2.1 System Description

The Life Filtration Whole-House Water Softener (Model RS1) is a high-capacity ion-exchange system designed to remove hardness-causing minerals (calcium and magnesium) from your entire home's water supply. Using a premium-grade resin bed and a metered digital control valve (Clack WS1), the system regenerates automatically based on actual water usage, minimizing salt and water consumption.

The result is soft water from every faucet — eliminating scale buildup in pipes and appliances, improving soap efficiency, extending the life of water heaters, dishwashers, and washing machines, and leaving skin and hair noticeably softer.

2.2 What This System Removes

The following contaminants and substances are reduced by your Life Filtration system. Actual reduction performance depends on local water quality, operating conditions, and regular maintenance.

- Calcium (hardness)
- Magnesium (hardness)
- Scale-forming minerals
- Iron (low levels, ferrous)
- Manganese (low levels)
- Heavy metal traces

2.3 Filtration Stages

Each stage of your system plays a specific role in the purification process. Understanding each stage helps you recognize when service may be needed.

Stage	Component	What It Does	Service Interval
1	Resin Bed (Ion Exchange)	Calcium and magnesium ions are exchanged with sodium ions, softening the water throughout your home.	Regenerated automatically; replace resin every 10–15 years
2	Brine Tank	Salt solution used to regenerate and recharge the resin bed, restoring its softening capacity.	Refill salt as needed (approx. monthly)
3	Digital Control Valve	Metered valve tracks water usage and triggers regeneration only when needed — saving salt and water.	Annual inspection by Life Filtration

NOTE Filter life estimates are based on average household conditions. High sediment, chlorine, or TDS levels may require more frequent replacement. Your Life Pro will assess performance at each annual visit.

2.4 Technical Specifications

Model	RS1 — Life Filtration Water Softener
--------------	--------------------------------------

System Type	Ion-exchange water softener
Flow Rate	Up to 42 GPM (service flow)
Grain Capacity	60,000 – 250,000 grains (model dependent)
Resin Volume	1 – 6 cu-ft premium-grade softening resin
Valve Type	Digital metered (Clack WS1 valve head)
Regeneration Type	Meter-based on-demand (regenerates by usage, not time)
Salt Type	Pellet salt recommended
Power Supply	120 VAC
Bypass Valve	Included — allows water bypass during regeneration or service
Installation	Free Professional Installation Included

2.5 Factors That Affect Performance

System performance is influenced by several variables including inlet water pressure, water temperature, total dissolved solids (TDS) concentration, and water hardness. Your Life Pro will monitor these factors during annual water testing visits.

Water Pressure

Low pressure reduces flow rate and filtration efficiency. Keep inlet pressure within specified limits.

Water Temperature

Cold water reduces membrane output. System performs optimally within the rated temperature range.

TDS / Hardness

High TDS or hardness accelerates filter wear and can foul membranes. Pre-treatment may be required.

Sediment Load

High turbidity clogs pre-filters quickly. A sediment pre-filter upstream extends component life.

Usage Volume

Higher daily water consumption reduces filter lifespan proportionally.

PART THREE OPERATION & INDICATORS

Understanding your system's controls and status displays

3.1 Starting Up Your System

Your Life Filtration system is professionally commissioned during installation. The steps below describe what happens during initial startup and what you should expect.

Step	Action	Details
1	Initial Flush	The system will perform an automatic flush to clear any manufacturing residue from filters. Duration: 5–10 minutes.
2	Pressure Stabilization	Allow 10–15 minutes for the system to reach stable operating pressure after the flush cycle.
3	First Water Draw	Discard the first 1–2 gallons from each tap after installation.
4	Normal Operation	The system is now active. Soft water is available at every tap in your home.

NOTE During regeneration (typically 60–90 minutes), water bypasses the softener and may temporarily feel harder. Regeneration is scheduled automatically during low-use hours and requires no customer action.

NOTE If you notice scale returning on fixtures or soap not lathering properly, check the salt level in the brine tank and confirm the control valve is displaying active usage. Contact Life Filtration if the issue persists.

PART FOUR ADVANCED OPERATION

4.1 User Displays

General Operation

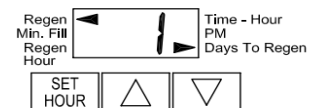
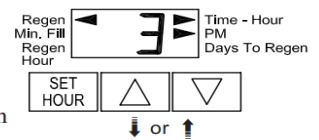
When the system is operating one of two displays will be shown. Pressing UP or DOWN button will alternate between the displays. One of the displays is always the current time of day (to the nearest hour). The second display is the days remaining until the next regeneration. If the days remaining is equal to one, a regeneration will occur at the next preset regeneration time. The user can scroll between displays as desired.

If the system has called for a regeneration that will occur at the preset time of regeneration, the arrow will point to Regen.

Regeneration Mode

Typically a system is set to regenerate at a time of low water usage. An example of a time with low water usage is when a household is asleep. If there is a demand for water when the system is regenerating, untreated water will be used.

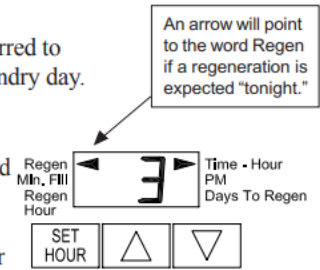
When the system begins to regenerate, the display will change to indicate the cycle of the regeneration process (see Table 3) that is occurring and an arrow will also point to Regen. The system will run through the steps automatically and will reset itself to provide treated water when the regeneration is completed.



Manual Regeneration

Sometimes there is a need to regenerate the system, sooner than when the system calls for it, usually referred to as a manual regeneration. There may be a period of heavy water usage because of guests or a heavy laundry day.

To initiate a manual regeneration at the preset delayed regeneration time, simultaneously press UP + DOWN buttons together and release. The arrow will point to the word Regen if a regeneration is expected "tonight." To cancel the regeneration simultaneously press UP + DOWN buttons and release.



To initiate a manual regeneration immediately, simultaneously press UP + DOWN buttons together for three seconds. The system will begin to regenerate immediately. The request cannot be cancelled.

Note: For softeners, if brine tank does not contain salt, fill with salt and wait at least two hours before regenerating.

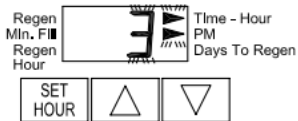
STEP 1U

Set Time of Day



STEP 1U – Press SET HOUR

STEP 2U



STEP 2U – Current time: Set the clock to the closest hour by using the UP and DOWN button. An arrow points to PM after 12. After a power outage, the time of day will need to be reset. Press SET HOUR to exit.

Power Loss

If the power goes out current time of day will need to be reset. If the power goes out while the system is regenerating, the cycle picks up where it was interrupted when the power returns. Note: The display will flash if a power outage has occurred.

Error Message

If "E1," "E2" or "E3" appears on the display contact the OEM for help. This indicates that the valve did not function properly.



4.1 Bypass Valve Operation

BYPASS VALVE OPERATION

Figure 1

NORMAL OPERATION

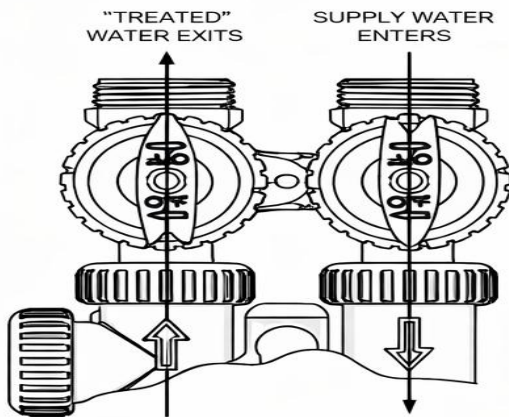


Figure 2

BYPASS OPERATION

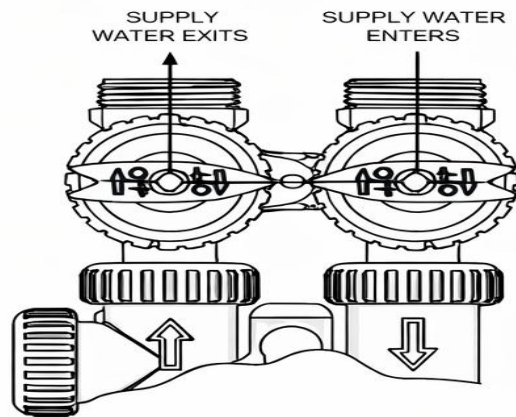


Figure 3

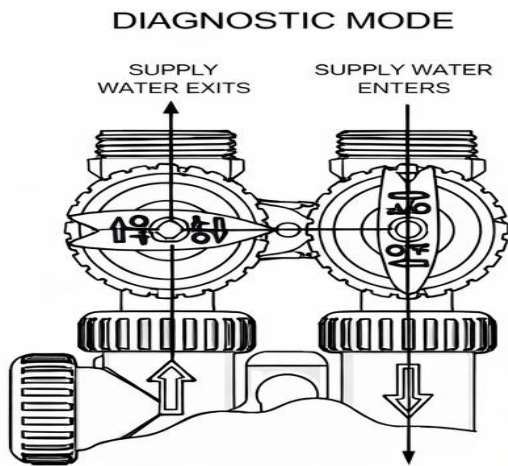
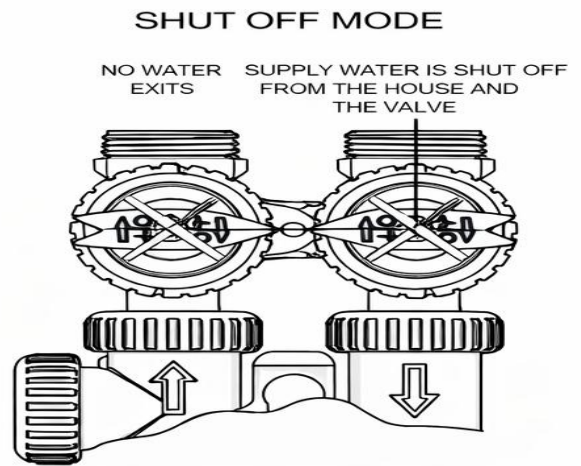


Figure 4



PART FIVE MAINTENANCE & SALT MANAGEMENT

Keeping your system in peak condition

5.1 Maintenance Philosophy

Life Filtration systems are designed to be low-maintenance for the customer. All scheduled maintenance is handled by your Installer as part of your included service plan. The information in this section is provided for reference and transparency so you understand exactly what service your system receives.

✓ **Annual Maintenance**

Free yearly visit by Life Filtration

✓ **Annual Water Testing**

Free on-site water quality testing each year

✓ **Unlimited Service Calls**

No caps, no charges.

5.2 Maintenance Schedule

Maintenance Task	Frequency	Notes
Refill brine tank with salt	Monthly	Use pellet salt only. Do not allow tank to run dry.
Inspect salt for bridging or mushing	Monthly	Break up any salt crust at the top of the brine tank.
Annual inspection & programming	Annually	Valve calibration, resin check, water hardness test
Brine tank cleanout	Every 1–2 years	Remove salt buildup and clean tank interior

Resin bed inspection	Every 1–2 years	Check for iron fouling or resin degradation
Annual water hardness test	Annually	Included — verifies system effectiveness
Check bypass valve and connections	Annually	Ensures proper isolation during service

5.3 Salt Management Procedure

Step	Action	Details
1	Check Salt Level First	Before assuming a softening issue, check the brine tank — low salt is the most common cause of performance problems.
2	Adding Salt	Open the brine tank lid and add pellet salt. Fill to within 4 inches of the top. Do not overfill.
3	Break Up Salt Bridges	If a hard crust has formed at the top, use a broom handle to break it up. Salt bridges prevent brine solution from forming.
4	Manual Regeneration (If Needed)	To trigger an immediate regeneration, press and hold the Regen button on the control valve for 3 seconds. Regeneration takes 60–90 minutes.
5	Resin Replacement (Life Filtration Installer only)	Resin is replaced by Installer every 10–15 years. Do not attempt to access the resin tank yourself.
6	Record Salt Additions	Note the date and amount of salt added in the service record at the back of this manual.

NOTE Only use Life Filtration certified replacement cartridges. Third-party filters may not fit correctly, can reduce filtration performance, and will void your warranty.

5.4 System Sanitization

Annual sanitization of the system is recommended to prevent bacterial growth inside filter housings and tubing. This procedure is performed by your Life Pro during the annual maintenance visit and is included in your service plan at no charge. Do not attempt to sanitize the system yourself with household chemicals, as this can damage components.

PART SIX TROUBLESHOOTING

Diagnosing and resolving common issues

6.1 Before You Call for Service

Use the troubleshooting guide below to identify common issues and their solutions. If the problem persists after following the recommended actions, contact Life Filtration at (786) 347-1982 — unlimited service calls are included with your system.

Symptom	Possible Cause	Recommended Action
Water still feels hard	Low salt / brine tank dry	Check and refill salt level. Initiate a manual regeneration cycle.
Salty taste in water	Over-salted brine or resin issue	Increase post-rinse cycles via control valve. Contact Life Filtration if persistent.
Water softener not regenerating	Control valve programming or power issue	Check power supply. Verify valve is displaying water usage. Contact Life Filtration.
Low water pressure	Resin bead fouled or valve partially closed	Check bypass valve position. Contact Life Filtration — resin may need cleaning or replacement.
Salt bridge in brine tank	High humidity or incorrect salt type	Break up bridge with a broom handle. Switch to high-quality pellet salt.
Display shows error code	Valve malfunction or programming error	Contact Life Filtration immediately.
Water running to drain constantly	Stuck valve or failed seal	Contact Life Filtration immediately. This can waste large volumes of water.

6.2 Frequently Asked Questions

Q How much salt does the system use?

A Salt usage depends on your water hardness and daily water consumption. On average, most households use 6–10 lbs of salt per regeneration cycle. The metered valve regenerates only when needed, which significantly reduces salt usage compared to time-based systems.

Q Is softened water safe to drink?

A Softened water is generally safe for most people. The softening process replaces calcium and magnesium with a small amount of sodium. If you are on a sodium-restricted diet, consult your physician. Adding a dedicated RO drinking water system is recommended to remove sodium from drinking water.

Q How do I know if my softener is working?

A Fill a clean bottle with soft water and shake with a few drops of dish soap — it should lather freely. Hard water will not lather easily. You can also check soap scum buildup on shower surfaces. A Life Pro will test hardness during each annual visit.

Q What type of salt should I use?

A Use high-quality sodium chloride pellet salt. Avoid rock salt or solar salt, which contain more impurities. Life Filtration recommends and can supply approved salt brands for your system.

Q Why does my softener regenerate at night?

A The control valve is programmed to regenerate during the lowest-use hours to ensure soft water is always available when needed. This is intentional and requires no action.

PART SEVEN WARRANTY, SERVICE RECORD & CONTACT

7.1 Warranty

WHAT IS COVERED:

This Warranty covers defects in materials or workmanship in manufacturing of your Life Filtration water filtration system.

FOR HOW LONG:

This warranty runs for the life of the product ("25 Year Lifetime Warranty").

WHAT IS NOT COVERED:

This warranty does not cover filter cartridges and any products that were not used in compliance with the instructions or that have been abused or operated incorrectly. It also does not cover incidental or consequential damages caused by a failure of the product. Finally, this warranty is voided if the product is used with parts that are not genuine Life Filtration parts. This includes, but is not limited to: replacement filters: Electronic components are covered for a 5 year period on our Titanium systems and a 7 year period on Signature systems. And a 10 year period on tanks for Signature.

WHAT LIFE FILTRATION WILL DO:

We will replace the defective part of the covered product or provide you with installation instructions.

Life Filtration at 1-855 206-0538 or Clientservices@lifefiltration.com within the Warranty Period to describe the problem to a customer service representative who will verify that the product is under warranty and arrange for delivery of a replacement part.

HOW STATE LAW APPLIES:

This warranty gives you specific rights and you may have other rights which vary from state to state.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

WARRANTY CARD:

Warranty registration is not required for coverage under the Life Filtration Limited Warranty and is not necessary for factory direct purchases made from <https://www.lifefiltration.com>

If you purchased from a retailer or dealer; please complete the online warranty registration form at <https://www.lifefiltration.com/>

Once registered online, we will have a record of your purchase and a proof of purchase for your records.

➤ <https://www.lifefiltration.com>

7.2 Your Included Service Plan

<p>✓ Free Professional Installation</p> <p>Certified technician installs everything at no charge</p>	<p>✓ Annual Maintenance Visits</p> <p>One scheduled visit per year to inspect and service your system</p>	<p>✓ Annual Water Testing</p> <p>On-site water quality testing at no cost, every year</p>	<p>✓ Unlimited Service Calls</p> <p>We come out as many times as needed — no fees, no limits</p>
---	--	--	---

7.3 Contact Life Filtration

For service, warranty claims, filter replacements, or any questions about your system, contact Life Filtration using the information below. A Life Pro is available to assist you.

Office Address	1001 Brickell Bay Drive #2701, Miami, FL
Customer Service	(786) 347-1982
Email	clientservices@lifefiltration.com
Website	www.lifefiltration.com
Business Hours	Monday – Friday, 8:00 AM – 6:00 PM EST
Emergency Line	(786) 347-1982 (available after hours for urgent issues)



1001 Brickell Bay Drive #2701, Miami, FL · (786) 347-1982 · www.lifefiltration.com