



ScaleSolver Owner's Guide

MODEL: SS-5544S (1") & SS-5544E (1 ¼")

CORPORATE OFFICE

911 E. Colorado Blvd, Suite 100
Pasadena, CA 91106
800.334.5009

MANUFACTURING FACILITY

523 S. Fair Oaks Ave.
Pasadena, CA 91105

TABLE OF CONTENTS

Our Promise.....	2
ScaleSolver Quick Facts	3
Equipment Specifications.....	4
What to Expect.....	5
Best Practices	6
A Note to Your Plumber	7
Warranty Details	8

OUR PROMISE

LIFESOURCE WATER: A COMPANY YOU CAN DEPEND ON

A Company You Can Depend On

It is our mission to improve peoples' lives by providing filtered and conditioned water to every home conveniently, honestly and reliably through high quality filtration products.

Our Promise to You

LifeSource Water has been a family owned and operated company since 1984. We are proud to have produced the very first salt-free, Whole House Water System and continue to manufacture the highest quality water filtration products. We pride ourselves on excellent customer service and strive to make every customer feel like they are part of the LifeSource family.

Unlike dealers, we provide our customers with a fully staffed, dependable service department to help with everything from system installation to questions related to water quality. We make sure the water coming out of every tap in your home is clean, tastes great and is healthy for you and your family.

This guide is filled with many helpful tips and reminders.

Welcome to the LifeSource Water family!



SCALESOLVER QUICK FACTS

SCALESOLVER 5544E & 5544S

The ScaleSolver with PowerTAC® is a high efficiency Template Assisted Crystallization (TAC) scale prevention system for homes and businesses.

The ScaleSolver system does not add anything to water and retains the healthy minerals such as calcium and magnesium.

The ScaleSolver conditions hardness minerals (calcium and magnesium), converting them into harmless, microscopic crystals that do not build up in household water appliances, fixtures, pipes and water heaters. Mineral deposits on countertops and faucets will easily wipe off.

Your First 30-90 Days

- Faucet aerator screens may clog occasionally as old scale is removed from your plumbing system and water heater.
- After your system has been installed, you may see cloudy water. This is from air bubbles. We recommend that you allow the water to run at each faucet for at least 10-15 minutes to eliminate the problem.

Scale Solver Quick Facts

- Provides scale reduction without using chemicals or salt.
- Does not add anything to water.
- Reduces existing buildup in pipes, fixtures and water heaters.
- No electricity & no wastewater – the ScaleSolver system is completely self-contained.
- Retains beneficial minerals for healthier drinking water.
- Improves the efficiency of water-based appliances.
- Safe for landscaping and irrigation.

EQUIPMENT SPECIFICATIONS

SCALESOLVER 5544S & 5544E FOR 1 ½" AND 2" WATER MAINS

The ScaleSolver 5544S & E is self-contained and ready to use. A simple inlet and outlet connection is all that is required for installation. Back wash is not necessary.

Specifications

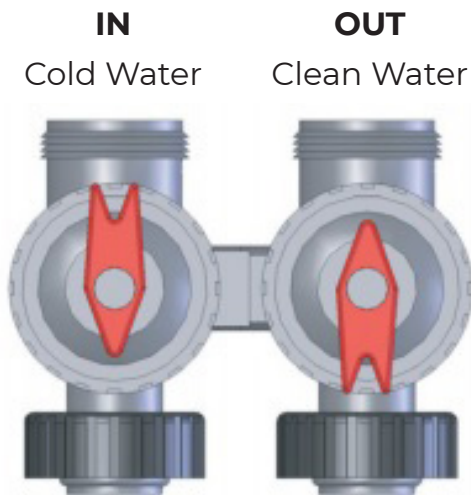
Max. Dimensions	10" x 59.75"
Max. Flow Rate	20 gallons per minute
Max. Temperature	100°F (37.8°C)
Max. Pressure	100 psi
In-Service Weight	140 lbs
Dry Weight	35

SS-5544S

Inlet Connection	1" PVC Union with Socket
Outlet Connection	1" PVC Socket

SS-5544E

Inlet Connection	1 ¼" PVC Union with Socket
Outlet Connection	1 ¼" PVC Socket



*ScaleSolver shown in service position



WHAT TO EXPECT

THINGS TO CONSIDER AND OTHER CAUTIONS

Using the ScaleSolver® with Other Water Treatment Equipment

Due to the unique properties of the ScaleSolver, there are requirements for using the ScaleSolver system.

1. The ScaleSolver system works best when paired with a LifeSource water filtration system. A commercial water filter removes harmful chemicals that can reduce the service life of the ScaleSolver media.
2. Do not install filters after ScaleSolver. ApaPure, POU filters, e.g. carbon or R.O. are exempt from this requirement.
3. Do not apply phosphate or any other antiscalant before or after the ScaleSolver system.

Cautions And Requirements

- **DO NOT** install in areas where the system will be exposed to extreme weather or temperatures below freezing. Damage to the tank may result.
- The ScaleSolver must be operated in a vertical position. Do not lay it down during operation. The system may be placed in any position during shipping and installation, but must be operated in the vertical position.
- Place the system on a smooth, level surface. Because the ScaleSolver operates in an UP-Flow, fluidized bed mode, having a level surface is important.
- A bypass valve should be installed on every system. This allows the ScaleSolver to easily switch to bypass if service or relocation is necessary.
- Observe all local plumbing and building codes when installing the ScaleSolver.
- Chlorine must not be above 3.0 PPM.
- Copper and other metals must not be above EPA standards for municipal water.

BEST PRACTICES

MAXIMIZING THE BENEFITS OF THE SCALESOLVER SYSTEM

The ScaleSolver system will improve the properties of your water throughout the entire home. It's important to keep in mind that the ScaleSolver is not a water softener. Below are some things to expect and some recommendations that can maximize the benefits of the system. **Please also see our tips for Minimizing Mineral Spots.**



Sinks and Fixtures - Water spots will be reduced. If water is allowed to evaporate off a surface, small spots may be left behind. If wiped off frequently, water spots should not require any more than a wet cloth or sponge to remove. No harsh chemicals are needed. Within the first 30-90 days of having the ScaleSolver system installed, we recommend checking all faucet screens for excess scale particles.

Automatic Dishwasher - Water spots on dishes and on the surface of the dishwasher should be greatly reduced. We recommend immediately reducing the amount of dishwashing detergent after installation of your system. **For best results reduce soap usage by about 75%.** Using dishwashing detergents that are low in phosphates is better for the environment and reduces water spots. Sour salt* or **Lemi Shine®** can help reduce water spots and will aid the ScaleSolver in clearing scale buildup from dishwashers. **Dishwashing pods contain more than the optimal amount of soap per load and are not recommended.**

**Citric Acid (also known as "sour salt") is a natural acidic ingredient found in all citrus fruits. Sour Salt is the most effective, natural and inexpensive cleaning agent for mineral deposits.*



BEST PRACTICES

MAXIMIZING THE BENEFITS OF THE SCALESOLVER SYSTEM

Washing Machines - Laundry will require less detergent. **For best results reduce soap usage by about 75%. Do not use detergent packs or pods.** Packs or pods will overwhelm your washing machine with excess soap, resulting in the excess soap remaining on clothes after the rinse cycle.



Glass Shower Doors and Tiles - Water spots will be reduced. When water evaporates off a surface, small spots may be left behind. These spots are easily removed with a damp cloth or sponge. **We suggest using a squeegee to wipe down shower doors immediately after each shower.**

In extreme hard water areas, treating the shower glass with **Rain-X®** glass cleaner will further reduce cleaning requirements. Rain-X® seals the pores in glass and promotes water sheeting off glass, preventing soap scum buildup. Simply buff on and off every two months for crystal clear shower doors.

Bath - Soaps and shampoos will lather more than with unconditioned water. Soaps and shampoos will also rinse off much easier without the slippery feel that is normally associated with soft water. We recommend using low phosphate soaps.

Water Heater - We recommend **draining water heaters at least 30-60 days after installation.** This is a good practice that can dramatically increase the life of water heaters. Once cleared, the ScaleSolver system will help keep the tank and other heating appliances scale-free and operating at peak efficiency.



A NOTE TO YOUR PLUMBER

SCALESOLVER 5544S & 5544E OVERVIEW

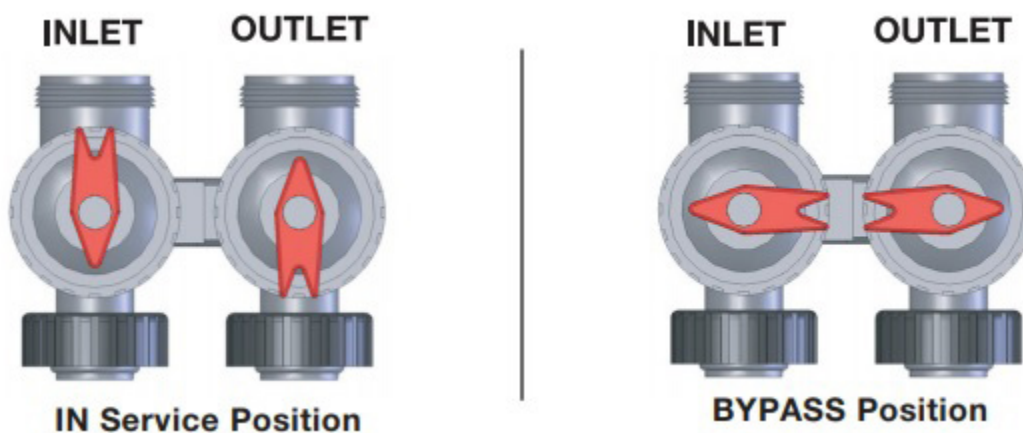
This page includes tips and important reminders. We recommend customers share this page with outside plumbers doing work in the home. The following information will ensure that your LifeSource service is not interrupted.

Important Reminders

- The ScaleSolver operates in the UPFLOW mode which is opposite of a conventional softener. Both the inlet and outlet are clearly marked on the tank.
- There is a built-in bypass valve to isolate the tank for servicing.
- The ScaleSolver unit with PowerTAC is recommended by most tankless water heater manufactures.
- Systems are tested by an ANSI accredited laboratory, The International Association of Plumbing and Mechanical Officials to NSF standards (IAPMO).
- **SYSTEM WILL FAIL AND WARRANTY WILL BE VOIDED IF INSTALLED INCORRECTLY.**

Bypass Valve

The following images show the ScaleSolver 5544S and 5544E inlet and outlet valves. The red knobs on the inlet and outlet valves represent arrows that indicate the direction of water flow for the system. *For more service or questions please call LifeSource Water at 800-334-5009*



WARRANTY DETAILS

SCALESOLVER 5544S AND 5544E

LifeSource Water Systems, Inc. warrants the ScaleSolver 5544S and 5544E systems when installed in the proper configuration against defects in materials and workmanship for a period of five (5) years from the date of installation. During this time, LifeSource Water Systems will repair or replace, at its discretion, any defective parts covered by the warranty. LifeSource will process your claim and advise whether the defective item needs to be returned for failure analysis. Warranties are only valid to the original owner.

Limitations

Our obligation under this warranty, with respect to the tank or valve, is limited to furnishing a replacement for, or at our option, repairing any part or parts to our satisfaction that prove defective within the warranty period stated above. Such replacement parts will be delivered to the owner F.O.B. nearest factory, at no cost, excluding freight and local labor charges, if any.

Our obligation under this warranty, with respect to the ScaleSolver media, will be limited to furnishing a replacement for the media within five years from date of original installation. Such replacement media will be delivered to the owner F.O.B. nearest factory, at no cost, excluding freight and local labor charges, if any. Damage to the media due to chlorine, other oxidizers, fouling or any other operation outside of the limits shown under specifications, is not covered by this warranty.

LifeSource Water Systems, Inc. shall not be liable for freight, handling or labor charges, or consequential damages.

ScaleSolver® 5544S Conditions, Testing and Regulatory Approvals

- The ScaleSolver must be installed and serviced by an authorized LifeSource Water Systems, Inc. dealer or other entity approved by LifeSource Water.
- Any component failure must not be a result from abuse, fire, freezing or other acts of nature, violence, or improper installation.
- Equipment must be installed and operated in compliance with the local plumbing codes, EPA regulated and LifeSource approved well water.
- Equipment is limited to use at water pressures not to exceed 100 psi and temperatures not to exceed 110°F.
- Water supply must not exceed 3.0 PPM chlorine. For water supply exceeding 3.0 PPM chlorine, pretreatment is required. A LifeSource whole house water filter is recommended.
- Water must not contain copper and other metals in excess of EPA guidelines for municipal water.
- Defective parts are subject to inspection by either LifeSource Water Systems, Inc. or any authorized representative before final commitment of warranty adjustment is made.
- LifeSource Water Systems, Inc. reserves the right to make changes or substitutions in parts or equipment with material of equal quality or value.



LIFESOURCE WATER SYSTEMS, INC.

LIMITED WARRANTY

Models

Filters:

- 810S 1"
- 1620S 1"
- 1620E 1.25"
- 2250S 1"
- 2250E 1.25"
- 2250SE 1.5"
- 4140SE 1.5"
- 4140LE 2"

ScaleSolvers®:

- SS-810 1"
- SS-5544S 1"
- SS-5544E 1.25"
- SS-6633SE 1.5"
- SS-6633LE 2"
- SS-7722LE 2"

Quantum Disinfection:

- ApaPure 12

What is Covered?

LifeSource Water Systems, Inc. ("LifeSource Water") warrants to the original purchaser ("Purchaser") that the products and models listed above (the "Products") are free from defects in material and workmanship for the period commencing upon the date of purchase and continuing for the specified period of time after that date as described below (the "Period of Coverage"). This limited warranty (the "Limited Warranty") is subject to the terms within this document. For the Limited Warranty to apply, the Products must be installed and operated according to LifeSource Water's written installation instructions, the manufacturer's recommendations, and current and local building and plumbing codes. Improper installation or operation will void the Limited Warranty. LifeSource Water recommends installation by a licensed plumber. The Limited Warranty does not extend to Products that are installed and operated outside of the United States or to Products that are moved or reinstalled at a location other than the original site.

Period of Coverage (from date of purchase)

Item	Residential Applications	With Platinum Protection Package
Carbon filter tanks (except 810S)*	10 years	12 years
810S*	5 years	5 years
ScaleSolver®*	5 years	5 years
ApaPure Filter Valve	2 years	2 years
Valve Head	3 years	12 years

*Tank media is not covered under warranty.

LIFESOURCE WATER SYSTEMS, INC.

LIMITED WARRANTY

What will LifeSource Water Do?

During the Period of Coverage, LifeSource Water will repair or replace the Product or any part or component that is defective in materials or workmanship. All repair parts will be LifeSource Water parts. All repairs or replacements will be performed by a qualified professional who is properly trained to do the type of repair.

Replacement of the Product may only be authorized by LifeSource Water at its sole discretion. LifeSource Water does not authorize any person or company to assume for it any obligation or liability in connection with the replacement or repair of the Product. If LifeSource Water determines that repair of the Product is not possible, LifeSource Water, at its sole discretion, may replace the Product with a comparable product. The warranty claim for Product parts and labor may be denied if terms and conditions of the Limited Warranty are not satisfied, including but not limited to those described in the section “What is Not Covered?” below.

How to Obtain Service

For the name of a trained and qualified professional, please visit LifeSourceWater.com or call LifeSource Water at 1-800-334-5009.

What is Not Covered?

The Limited Warranty is conditioned upon the proper installation and operation of the Product by the Purchaser. The Limited Warranty does not cover the following:

- Accident, abuse, or misuse.
- Alteration of the product or any component part.
- Misapplication of this product.
- Improper installation (such as but not limited to):
 - The Product was not installed according to LifeSource Water’s written instructions, the manufacturer’s recommendations, or the application local and state codes.
 - Incorrect water pressure.
 - Water pressure exceeds 100 psi or incoming temperature is higher than 120°F.
 - Product being installed in a corrosive environment.

LIFESOURCE WATER SYSTEMS, INC.

LIMITED WARRANTY

- Improper maintenance, such as system not continuously connected to an operating power source.
- Any other cause not due to defects in materials or workmanship
- Any component failure due to abuse, fire, freezing or other acts of nature, violence, or improper installation.
- The Limited Warranty is terminated if granular activated carbon media has been coated with excessive iron, silt, mud or other foreign substances. It is recommended that regular self-cleaning should be automatically set for the Product to a 12 or 14-day period. Please refer to your owner's manual for specific time frame.
- Use of the Product with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- The Limited Warranty is terminated if the Product is moved or reinstalled at a new location.
- This Limited Warranty does not apply to any product whose serial number or manufacture date has been defaced.
- The Product is purchased, installed, or operated outside of the United States.
- Damage due to acts of nature.

Limitation on Warranties

Except as set forth in the limited written warranty contained herein, purchaser takes the product "as is," and LifeSource Water makes no warranty or representation and there are no conditions, express or implied, statutory or otherwise, of any kind whatsoever with respect to the product, including but not limited to:

The merchantability of the product or its fitness for any particular purpose or use;

- Warranties of title or non-infringement;
- Design, condition, quality, or performance of the product;
- The workmanship of the product or the components contained therein; or
- Compliance of the product with the requirements of any law, rule, specification or contract pertaining thereto.

LIFESOURCE WATER SYSTEMS, INC.

LIMITED WARRANTY

Nothing contained in LifeSource Water's website, owner's manual, promotional materials, or other documents provided to the purchaser shall be construed to create an express warranty of any kind whatsoever with respect to the product. All implied warranties and conditions that may arise by operation of law, including if applicable the implied warranties of merchantability and fitness for a particular purpose, are hereby limited to the same duration of time as the limited written warranty stated herein. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. In addition, LifeSource Water shall not be liable for any damages of any kind resulting from the purchase, use, or misuse of, or inability to use the product or arising directly or indirectly from the use or loss of use of the product or from the breach of the express warranty, including incidental, special, consequential or similar damages, or loss of anticipated profits or benefits, or for damages arising from any tort (including negligence or gross negligence) or fault committed by LifeSource Water, its agents or employees, or for any breach of contract or for any claim brought against purchaser by any other party. 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.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This limited warranty shall not extend to anyone other than the original purchaser of this product and states purchaser's exclusive remedy. If any portion of this limited warranty is held illegal or unenforceable by reason of any law, such partial illegality or unenforceability shall not affect the enforceability for the remainder of this limited warranty which purchaser acknowledges is and will always be construed to be limited by its terms or as limited as the law permits.

The Limited Warranty allocates risk of the Product failure between the Purchaser and LifeSource Water, and LifeSource Water's Product pricing reflects this allocation of risk and the limitations of liability contained in this Limited Warranty. The agents, employees, distributors, and contractors of LifeSource Water are not authorized to make modifications to the Limited Warranty, or make additional warranties binding on LifeSource Water. Accordingly, additional statements such as advertising, or presentation, whether oral or written, do not constitute warranties by LifeSource Water and should not be relied upon.

Contact Us: LifeSourceWater.com/Warranty

911 E. Colorado Blvd Suite 100, Pasadena, CA 91106 | 800.334.5009