

Pentair 560

Pentair Evolio 560 Water Softener User Manual

Model: Evolio 560

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Pentair Evolio 560 Water Softener. This system is designed to remove limescale from your water supply, enhancing water quality for various household uses. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the unit.

2. SAFETY INFORMATION

- Always disconnect the power supply before performing any maintenance or service.
- Ensure all plumbing connections are secure and leak-free to prevent water damage.
- The unit must be installed in an area protected from freezing temperatures and direct sunlight.
- Use only potable water in the system.
- Do not operate the unit if any part is damaged. Contact qualified service personnel.
- Keep children and pets away from the unit during operation and maintenance.

3. PRODUCT OVERVIEW

The Pentair Evolio 560 is a compact and efficient water softener designed for residential use. It utilizes proven ion exchange technology to deliver soft water, protecting your appliances and improving your daily water experience.



Figure 1: Front view of the Pentair Evolio 560 Water Softener. This image displays the sleek, white cabinet design of the unit, highlighting its modern aesthetic and compact form factor suitable for various installation environments.

Key Features:

- **Limescale Removal:** Effectively removes limescale, leading to softer skin, improved taste of beverages, softer laundry, sparkling fixtures, and protection for pipes and appliances.
- **Ion Exchange Technology:** Provides up to 1600 liters of soft water per day (at 20 dH hardness), suitable for households of up to 4 people, with reduced maintenance costs.
- **Quality Construction:** Manufactured with 100% Pentair components, including the 5600sxt control valve, ensuring high quality and a long service life.
- **Integrated LCD Display:** Features a white cabinet with a large, integrated LCD display for easy monitoring and control, offering an elegant, space-saving design.
- **Certifications:** CE, ACS, and DM25 certified, ensuring tested safety for drinking water applications.



Figure 2: View of the Pentair Evolio 560 control panel and an internal component view. This image illustrates the user-friendly control interface on the top cover and provides a glimpse into the internal mechanism, including the resin tank and valve system.

4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your water softener. It is recommended that installation be performed by a qualified plumber.

Installation Steps:

1. **Choose Location:** Select a dry, level area near the main water supply, a drain, and an electrical outlet. Ensure the location is protected from freezing.
2. **Plumbing Connections:**

- Connect the main water inlet to the softener's inlet port (¾ inch BSPT external thread).
 - Connect the softener's outlet port (¾ inch BSPT external thread) to the household's softened water line.
 - Connect the valve drain line (½ inch BSPT external thread) to a suitable drain, ensuring a minimum diameter of ½ inch for the drain line.
 - Connect the overflow cabinet line (½ inch diameter minimum size) to a floor drain or other appropriate drainage point.
3. **Electrical Connection:** Plug the unit into a standard 220 Vac/50 Hz electrical outlet.
 4. **Add Salt:** Fill the salt tank with water softener salt. Refer to the "Maintenance" section for details.
 5. **Initial Programming:** Follow the on-screen instructions on the LCD display to set up initial parameters such as water hardness and time.

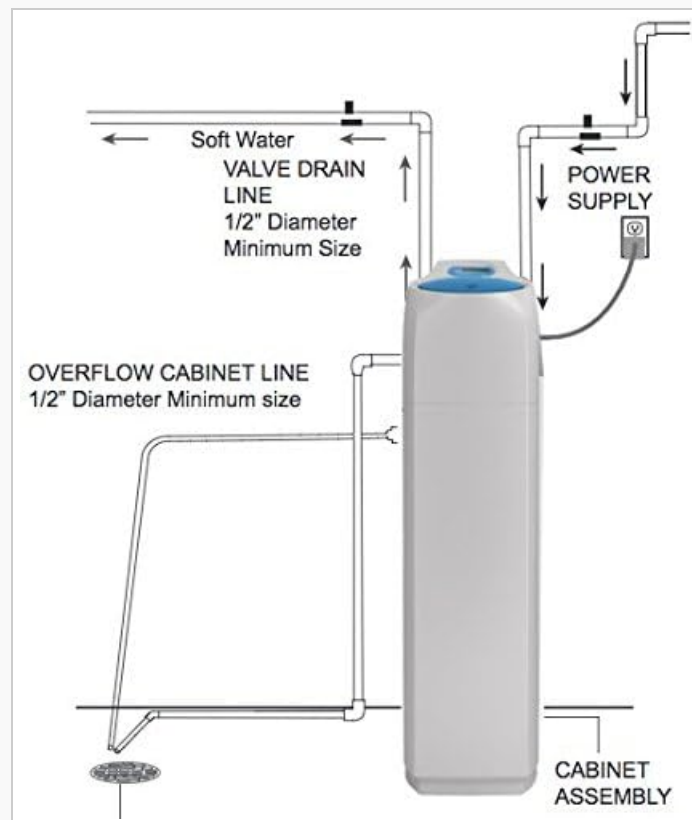


Figure 3: Installation diagram for the Pentair Evolio 560 Water Softener. This diagram illustrates the necessary plumbing connections, including the main water lines, valve drain line, overflow cabinet line, and power supply connection, providing a visual guide for proper setup.

5. OPERATING INSTRUCTIONS

The Evolio 560 operates automatically once programmed. The integrated LCD display provides real-time information and allows for adjustments.

Control Panel:

The control panel is located on the top cover of the unit. Its 20-degree inclination enhances readability. Use the buttons to navigate menus and adjust settings.

Regeneration Cycle:

The system automatically initiates a regeneration cycle based on water usage and programmed settings.

During regeneration, the unit flushes the resin bed with a brine solution to restore its softening capacity. Softened water may not be available during this cycle, depending on the bypass valve configuration.

Adjusting Settings:

Refer to the on-screen menu for options to adjust water hardness, regeneration time, and other operational parameters. Consult the detailed programming guide (if provided separately) for advanced settings.

6. MAINTENANCE

Regular maintenance ensures the efficient and long-lasting performance of your water softener.

Salt Refilling:

The Evolio 560 requires periodic refilling of water softener salt. The large salt opening simplifies this process.

- Monitor the salt level regularly via the transparent lid or the display indicator.
- When the salt level is low, open the top cover and add high-quality water softener salt (pellets or crystals) to the brine tank.
- Do not overfill; ensure there is space for water to dissolve the salt.

Cleaning:

Periodically clean the exterior of the unit with a soft, damp cloth. Avoid abrasive cleaners or solvents.

Resin Bed:

The ion exchange resin has a long lifespan but may require occasional cleaning or replacement in areas with extremely poor water quality. Consult a professional if you suspect resin issues.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your water softener.

Problem	Possible Cause	Solution
Water is not soft	Low salt level; incorrect hardness setting; bypass valve open; resin bed exhausted.	Check and refill salt; verify hardness setting on display; ensure bypass valve is closed; initiate manual regeneration; contact service if resin is old.
Excessive salt usage	Incorrect regeneration settings; salt bridge in tank.	Review and adjust regeneration frequency/salt dose; break up any salt bridges with a non-sharp object.
Water pressure drop	Clogged filters (if applicable); restricted plumbing; unit in regeneration cycle.	Check and clean pre-filters; inspect plumbing for kinks; wait for regeneration cycle to complete.
Unit not regenerating	Power outage; control valve malfunction.	Check power supply; reset unit; contact service if issue persists.

If you encounter a problem not listed here or if the suggested solutions do not resolve the issue, please contact Pentair customer support or a qualified service technician.

8. SPECIFICATIONS

Feature	Detail
Model	Evolio 560
Ion Exchange Resin Volume	8 liters
Minimum Flow Rate	0.42 M ³ /H
Maximum Flow Rate	0.83 M ³ /H
Exchange Capacity	40 M ³
Salt Consumption per Regeneration	0.96 kg
Water Consumption per Regeneration	Approx. 47 liters
Salt Storage Capacity	25 kg
Inlet/Outlet Connector	¾ inch – BSPT, external thread
Drain Line Connector	½ inch – BSPT, external thread
Power Supply	220 Vac/50 Hz
Resin Type	High quality strong acid cation resin
Cabinet Housing Material	High-density polyethylene
HP-Cover Material	ABS
Certifications	RoHS, CE, ACS, DM25

9. WARRANTY AND SUPPORT

Pentair products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official Pentair website. For technical support, spare parts, or service inquiries, please contact your authorized Pentair dealer or customer service. Keep your purchase receipt as proof of purchase for warranty claims.