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› AFWFilters Purolite C100E High Efficiency Water Softener Resin User Manual

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Model: C100E

1. INTRODUCTION

The AFWFilters Purolite C100E High Efficiency Water Softener Resin is a premium ion exchange resin designed to effectively remove hardness minerals from your water supply. Manufactured in the USA, this high-quality resin ensures excellent efficiency and a long lifespan for your water softening system. It is certified by the WQA to NSF/ANSI-61 standard and Kosher certified for potable water applications.

This manual provides essential information for the proper setup, operation, and maintenance of your water softener resin to ensure optimal performance and longevity.





Image 1.1: A bag of Purolite C100E 1.0 CuFt resin, the primary product for water softening.

2. PRODUCT FEATURES AND BENEFITS

- **High Quality Resin:** New Purolite genuine high quality water softening resin for excellent efficiency and long life.
- **Made in USA:** Premium softening resin manufactured in the United States.
- **Certified:** NSF/ANSI-61 and Kosher certified for potable water.
- **Cost-Effective:** Purolite's durability ensures a long lifespan, making it a cost-effective choice.
- **Reduced Usage:** Soft water helps decrease detergent, soap, and cleaning product usage.



Image 2.1: Close-up view of the Purolite C100E resin beads, highlighting their quality.

3. SETUP AND INSTALLATION (RESIN CHANGE INSTRUCTIONS)

Replacing the resin in your water softener system requires careful attention. AFWFilters provides a detailed installation guide and a hardness test kit with your purchase to assist you. Always refer to the specific instructions provided with your product for the most accurate guidance.

3.1. Before You Begin

- **Gather Tools:** You will need basic plumbing tools, a funnel for refilling resin, and contractor trash bags for old resin disposal.
- **Hardness Test:** Use the included hardness test kit to measure your water's hardness before and after the resin change. This helps in correctly setting up your softener.
- **Safety:** Wear appropriate personal protective equipment, such as gloves and eye protection.

3.2. Resin Replacement Steps (General Guide)

1. **Bypass Water Softener:** Locate the bypass valve on your water softener and set it to the bypass position to stop water flow to the unit.
2. **Depressurize System:** Open a nearby cold water faucet to relieve pressure in the system.
3. **Disconnect Unit:** Disconnect the water softener from your plumbing.
4. **Remove Head:** Carefully remove the control head from the top of the resin tank.
5. **Drain Water:** Drain any remaining water from the tank. A drill pump and hose can assist with this.
6. **Empty Old Resin:** Carefully empty the old resin into contractor trash bags for disposal. Rinse the tank thoroughly to remove any residue.
7. **Refill with New Resin:** Using a funnel, slowly pour the new Purolite C100E resin into the tank. Ensure you fill it to the correct level as specified in your softener's manual. Avoid overfilling.
8. **Reassemble:** Reattach the control head and reconnect the water softener to your plumbing.
9. **Restore Water Flow:** Slowly open the bypass valve to allow water to flow back into the softener. Check for leaks.
10. **Initiate Regeneration:** Perform a manual regeneration cycle as per your softener's instructions to properly settle the new resin and prepare it for operation.



Image 3.1: Illustration of C100E resin within a water softener tank, demonstrating its application.

3.3. Video Guide for Resin Replacement

For a visual demonstration of the resin replacement process, please refer to the official product video below:

Your browser does not support the video tag.

Video 3.1: Official video demonstrating the Purolite C100E Softening Resin and its application.

4. OPERATING YOUR WATER SOFTENER WITH PUROLITE C100E RESIN

Once the new Purolite C100E resin is installed and the system has undergone its initial regeneration, your water softener will begin to produce soft water. The resin works by exchanging hard minerals (like calcium and magnesium) with sodium ions, resulting in softer water throughout your home.

4.1. Initial Operation

- After the first regeneration cycle, allow water to run through your faucets for a few minutes to flush out any air or fine resin particles.
- Re-test your water hardness using the provided kit to confirm the system is operating effectively.

4.2. Benefits of Soft Water

- **Cleaner Dishes and Laundry:** Reduced soap scum and mineral deposits on dishes and clothes.
- **Softer Skin and Hair:** Less residue left on your body after showering.
- **Extended Appliance Life:** Prevents scale buildup in water heaters, dishwashers, and other appliances.
- **Reduced Cleaning Product Usage:** Requires less detergent and cleaning agents for effective cleaning.



Image 4.1: A clear glass of water being poured, symbolizing the quality of softened water.

5. MAINTENANCE

Regular maintenance ensures the continued efficiency and longevity of your water softening system with Purolite C100E resin.

- **Salt Levels:** Regularly check and maintain adequate salt levels in your brine tank. Use high-quality water softener salt.
- **Regeneration Cycles:** Ensure your softener is regenerating regularly according to its programming and your water usage.
- **System Cleaning:** Periodically clean your brine tank to prevent salt bridges and sludge buildup.
- **Resin Life:** While Purolite C100E resin is durable, its effectiveness will diminish over many years. Monitor your water hardness and consider resin replacement if hardness returns despite proper regeneration.

6. TROUBLESHOOTING

If you experience issues with your water softener after replacing the resin, consider the following common troubleshooting steps:

- **Hard Water After Resin Change:**
 - Ensure the bypass valve is fully open to the softener.
 - Verify the softener has completed at least one full regeneration cycle.
 - Check salt levels in the brine tank.
 - Inspect the injector/venturi for clogs.
 - Confirm the resin tank was filled to the correct level and not overfilled.
- **Low Water Pressure:**
 - Check for kinks in the water lines.
 - Ensure the control head is properly seated and not obstructing flow.
- **Excessive Salt Usage:**
 - Verify the softener's programming for regeneration frequency and salt dose is correct for your household's water usage and hardness.

If issues persist, consult your water softener's specific manual or contact AFWFilters customer support.

7. SPECIFICATIONS

Attribute	Detail
Manufacturer	Purolite
Part Number	C100E
Item Weight	50 pounds
Product Dimensions	18 x 14 x 8 inches
Item Model Number	C100E
Material	Resin
Item Package Quantity	1 cu. ft.
Included Components	1 cu. ft. resin, hardness test, resin change instructions

8. WARRANTY

The Purolite C100E High Efficiency Water Softener Resin comes with a **1-year manufacturer warranty**. Please retain your proof of purchase for warranty claims. For specific details regarding warranty coverage and procedures, refer to the documentation included with your product or contact AFWFilters customer support.

9. SUPPORT

For further assistance, technical support, or inquiries regarding your Purolite C100E resin, please contact AFWFilters. You can find more information and contact details on the official AFWFilters store page:

Visit AFWFilters
Store

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Video 9.1: Informational video explaining the benefits and reasons to choose Purolite C100E resin.

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