



Installation Guide

Welcome

Congratulations on your purchase of the nuvoH2O water softener! Instead of using salt, nuvoH2O uses a proprietary citrus formulation (CitraCharge) to naturally soften and condition water. First designed for the food services industries in the early 1980's, these products have been helping solve complex water problems for some of the nation's largest businesses.

Re-engineered for your home, the innovative nuvoH2O Salt-Free Water Softener is uniquely effective in preventing and removing existing scale buildup from your pipes, fixtures, and appliances. The patented process uses the basic scientific principle of Chelation in which CitraCharge binds with the mineral ions in hard water preventing scale formation.

You can now enjoy healthy, softened water that both prevents and removes the hard-water buildup that clogs and corrodes water heaters and other plumbing fixtures and appliances.



What to expect with your nuvoH2O Softener

The nuvoH2O softener naturally binds minerals to prevent hard-water buildup instead of removing the minerals like old, salt-based water softeners. This mineralized water is healthier and the nuvoH2O system will not change the taste of your water.

The nuvoH2O-softened water requires less soap in your dishwasher. Please decrease the amount of soap used by at least half, and avoid using pre-soaks or rinse-aids. Using too much soap or using rinse-aids can cause a fine white film or spots to form on dishes. This spotting can also be aggravated by some of the no-phosphate dishwasher detergents found in many states.

The nuvoH2O softener creates natural, pH-balanced water that is very healthy for hair and skin. This softened, mineralized water will not produce the slick (can't-rinse-off-the-soap) feeling you may have experienced in the shower when using a traditional salt softener.

Fast, Easy Installation

The nuvoH2O softener is one of the most installation-friendly softeners on the market. No drains, no electricity, no calibration. No additional plumbing is required for a soft-water loop because nuvoH2O doesn't change the taste of your water; it is FDA approved and safe to drink. The built-in bypass makes cartridge replacement a snap without requiring additional shut-off valves. Simply mount the nuvoH2O softener on the main water line and you're well on your way to enjoying softer, conditioned water in a fraction of the time it takes to install a salt-based softener.

Package Contents

In addition to the nuvoH2O softener and the Quick Start Cartridge, the nuvoH2O softener package also includes a mounting back plate, mounting bracket, screws, and housing wrench. Because plumbing standards vary, other bushings and connectors are not included.

Keeping Your System Running

Once installed, the nuvoH2O requires no additional maintenance other than the semi-annual cartridge replacement. Simply follow the instructions provided with your replacement cartridge. The system will not work without replacing your cartridge in a timely manner.

Again, thank you for choosing nuvoH2O. We look forward to working with you to provide years of trouble-free softened water. Welcome to nuvoH2O, a new era of easy-to-use, environmentally friendly water softening solutions.



Studio System (Item # DPSB)

For condos, townhomes and apartments that are less than 1000 sq. feet, 1 bathroom, and low water use.

- Size: 5" x 14"
- Weight: 4.5 pounds
- Water flow: 12-15 gpm with 3/4" ports
- Max. pressure: 100 PSI (6.8 bar)
- Capacity: about 20,000 gallons or up to 6 months
- Uses 2" x 10" replacement cartridges (Item #: S-2416 or SHP-2516)
- Built-in pressure relief valve
- FDA & NSF approved



Home System (Item # DPHB)

For homes up to about 2,000 sq. ft., or 2 or 3 bathrooms and average water use.

- Size: 5" x 24"
- Weight: 7 pounds
- Water flow: 12-15 gpm with 1" ports
- Max. pressure: 100 PSI (6.8 bar)
- Capacity: about 35,000 gallons or up to 6 months
- Uses 2" x 20" replacement cartridges (Item #: H-2416 or HHP-2516)
- Built-in pressure relief valve
- FDA & NSF approved



Manor System (Item # DPMB)

For larger homes over 2000 sq. ft. with 3 or more bathrooms, and homes with above average water use.

- Size: 8" x 26"
- Weight: 14 pounds
- Water flow: 15-18 gpm with 1.5" ports
- Max. pressure: 100 PSI (6.8 bar)
- Capacity: about 50,000 gallons or up to 6 months
- Uses 4" x 20" replacement cartridges (Item #: M-42416 or MHP-42516)
- Built-in pressure relief valve
- FDA & NSF approved



CAUTION!

Please Read All Instructions Before Beginning Installation

- 1 Softener MUST be installed vertically.
- 2 Verify that inflow and outflow lines are properly attached to inlet and outlet ports, as marked on Housing Head.
- 3 The brass inserts on the inlet and outlet ports provide stronger threading but can split or break when over-tightened. **DO NOT OVERTIGHTEN.**
- 4 The O-ring in the Housing Body MUST be seated properly. See Basic Installation Steps for your system in this Guide for details.
- 5 If installed outdoors, System MUST be protected from sunlight or freezing. Environmental damage due to direct sunlight or freezing is not covered under warranty.
- 6 The recommended pressure setting is 65 psi (4.5 bar). Install a pressure reduction valve before the housing inlet if water pressure may ever exceed the Maximum PSI Rating: **MAXIMUM PSI RATING – 100 (6.8 BAR)**
- 7 Make sure system is appropriately sized for the intended use. Please check system specifications on Page 3 prior to installing unit.
- 8 Remove and discard the foam packing ring and plastic shrink wrapping from around the cartridge and inside Housing before installation.
- 9 Cartridge MUST be inserted properly inside housing body (large by-pass holes at top).
- 10 If installing a filter with the nuvoH2O system, install the filter before the softening system.
- 11 The maximum operating water temperature is 100° F; do not connect to a hot water supply line.
- 12 The nuvoH2O system cartridge is rated for usage and/or a specified time period. The cartridge must be replaced as directed to insure correct operation.
- 13 The nuvoH2O water softener is not a filter or a purifier; do not use with water that contains microbiological pathogens, is unsafe, or does not meet the minimum quality standards of municipal water.
- 14 The nuvoH2O softener is intended for the treatment of hard water with above normal pH, do not install if inlet water pH is 7.2 or less.

INSTALLATION STEPS

For Home System and Studio System

Please read all instructions before beginning installation

- 1 Turn off main water supply line leading to proposed installation site.
- 2 Attach the Wall Mounting Panel horizontally (softener must hang vertically) to wall studs with screws provided. It is very important that the panel is attached to wall studs to allow for system weight and torque needed to adjust the system. Do not attach bottom right screw at this time.
- 3 Attach C-Bracket horizontally to Wall Mounting Panel under “Softener” label. The right C-Bracket screw should go through the Wall Mounting Panel into the wall stud. Another screw attaches the Wall Mounting Panel to the wall stud directly above the right C-Bracket screw. See FIG. 1

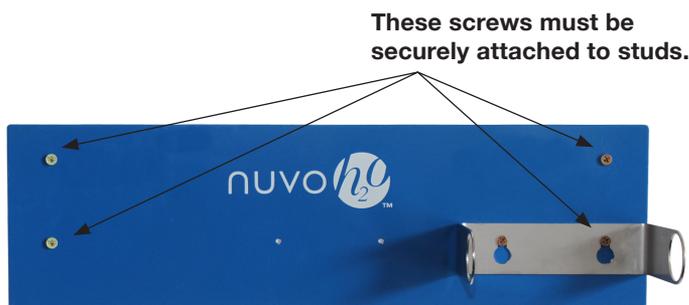


FIG. 1

- 4 Remove Housing Head from Housing Body by detaching Collar (turn clockwise or left—use provided Wrench if necessary).
- 5 Attach Housing Head to the wall by inserting the nipples (not included) in Housing Head through the side holes in the C-Bracket.
- 6 Tighten nipples securely into the ports on each side of Housing Head.

WARNING: The inlet and outlet ports are tapered (NPT) and require thread seal tape or sealant compound to prevent leakage. Be very careful, as over-tightening the threading can split or break the port. **DO NOT OVERTIGHTEN.**

- 7 Securely connect water supply line inlet & outlet to the nipples in the Housing Head. Softener functionality requires the correct water flow direction; make sure water supply inlet pipe is attached to the inlet port. (Note: Ports on Housing Head are marked “IN” and “OUT”). See FIG. 2

Ports are marked “IN” and “OUT”



FIG. 2

Cartridge must be inserted so holes are at the top.



FIG. 3

- 8 Check that the O-ring is properly seated inside the Housing Body.
- 9 Remove shrink wrap material and packing foam ring, then insert Cartridge into Housing Body. Make sure holes on side of cartridge are located at the top. See FIG. 3
- 10 Attach the Collar (turn counter-clockwise or right) and use the Wrench provided to securely tighten the Housing Body to the Housing Head.
- 11 Turn on the main water supply. Be sure Housing Head is turned to the “Softener” position.

PLEASE NOTE: For maximum efficiency, please do not use the system immediately. Allow the new cartridge to remain in the housing with minimal water flow for one hour.

INSTALLATION STEPS

For Manor System

Please read all instructions before beginning installation

- 1 Turn off main water supply line leading to proposed installation site.
- 2 Using screws provided, attach the Wall Mounting Panel horizontally (softener must hang vertically) to wall studs through top left hole and top right hole of Wall Mounting Panel.
- 3 DO NOT REMOVE the Housing Head from the Housing Body for Installation Steps #4 through #6. After the Black Top has been re-fastened in Step #6, the Housing Body may be removed to make it easier to attach the L-Bracket/Housing Head Assembly to the Mounting Panel.

4 Unscrew the Black Top of the Housing Unit. This is held together with a single screw in the middle.

5 Attach the L-Bracket to the Housing Head and secure it with the four screws provided. See FIG. 1

Attach L-Bracket to Housing Head with 4 Screws.



FIG. 1

These screws must be securely attached to stud.



FIG. 2

6 Replace the Black Top of the Housing Unit and re-secure it with the single screw removed in step 4.

7 Attach the L-Bracket/Housing Head assembly horizontally to the Wall Mounting Panel under the "Softener" label. The right L-Bracket screw should go through the Wall Mounting Panel and into the wall stud. See FIG. 2

8 Attach the appropriate nipple (not included) securely into the ports on each side of the Housing Head. The inlet and outlet ports are tapered (NPT) and require thread seal tape or sealant compound to prevent leakage. Be very careful, as over-tightening the threading can split or break the port. **DO NOT OVER-TIGHTEN.**

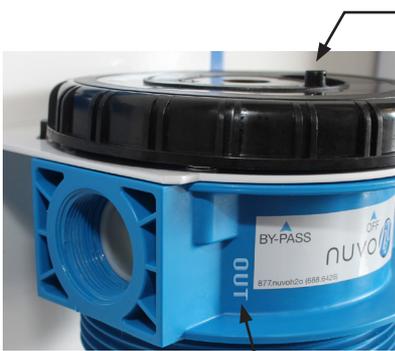


FIG. 3

Ports are marked "IN" and "OUT"

Pressure Relief Valve

9 Securely connect the water supply line inlet & outlet to the nipples in the Housing Head. Softener functionality requires the correct flow direction; make sure water supply inlet pipe is attached to the inlet port. See FIG. 3

10 Check that the O-ring is properly seated inside the Housing Body. See FIG. 4

11 Remove shrink wrap material and packing foam ring, then insert Cartridge into Housing Body. Make sure holes on side of cartridge are located at the top.

12 Attach the Collar (turn counter-clockwise or right) and use the Wrench provided to securely tighten the Housing Body to the Housing Head.

13 Turn on the main water supply. Be sure Housing Head is turned to the "Softener" position.

O-ring must be properly seated on first ridge as shown.



FIG. 4

PLEASE NOTE: For maximum efficiency, please do not use the system immediately. Allow the new cartridge to remain in the housing with minimal water flow for one hour.

nuvoH2O Cartridge Replacement

1 Before replacing your cartridge, we recommend having a towel on hand and placing a bucket underneath your softener system.

2 HOME/STUDIO CARTRIDGE - Turn the black cap at the top of the unit to “By-Pass” using the wrench that came with your system. (The “By-Pass” option will allow water to continue to flow to the rest of your home while you replace the cartridge.) Turn until you hear a clicking sound – this will activate the pressure release valve.

Note: *It is normal for water and air from the cartridge chamber to escape from under the black cap as the pressure is released.*

MANOR CARTRIDGE - Turn the black cap to “By-Pass” using the wrench that came with your system. (The “By-Pass” option will allow water to continue to flow to the rest of your home while you replace the cartridge.) Press and hold the pressure relief valve at the top of the head to relieve pressure in the cartridge chamber.

Note: *It is normal for water and air from the cartridge chamber to escape from under the black cap as the pressure is released.*

3 Using the wrench that came with your system, turn the blue collar clockwise (to the left) to loosen the housing from the head of the system.

CAUTION: *The housing will be heavy and full of water!*

4 Remove the spent cartridge. Turn it upside down into a sink or tub and let it drain completely. The outside of the cartridge can be rinsed with warm water. Do not drain the cartridge in a copper or natural stone sink or tub, and do not let the waste water come in contact with carpet or flooring.

5 Clean the inside of the housing with dish soap, ½ teaspoon bleach, and water. Rinse **thoroughly**.

6 Remove the plastic shrink wrap from your new cartridge and insert the cartridge into the housing. The small, round holes on the side of the cartridge must be at the top.

7 Inspect the O-ring that seals the housing to the head and ensure that it is seated properly.

8 Place the housing directly under the head so that the collar may be re-tightened. Tighten the collar by turning counterclockwise (right). Secure with wrench.

9 Turn the black cap at the top of the unit back to the “Softener” position.

PLEASE NOTE: For maximum efficiency, please do not use the system immediately. Allow the new cartridge to remain in the housing with minimal water flow for one hour.



Money-Back Guarantee

We're so confident in the performance of the nuvoH2O Salt-Free Water Softeners, that if you are not completely satisfied within the first 90 days from the date you bought it, you may return it for a full refund of your purchase price, less shipping and handling.

Everyone's water quality is different. If you're not getting the results you expect, we may be able to help you adjust the treatment level from your softener to improve your water quality. Please contact us if we can be of any assistance.

Lifetime Limited Warranty

The nuvoH2O Salt-Free Water Softeners are so dependable that you can count on enjoying healthy, salt-free softened water for your lifetime. In the unlikely event that you have trouble with your softener, nuvoH2O will, at its option, repair, modify, or exchange it at no cost to you. To qualify for the lifetime warranty, you must purchase the product from an authorized nuvoH2O reseller and use only genuine replacement cartridges and parts from nuvoH2O.

Registration

To register your nuvoH2O System, please go to:

<http://www.nuvowater.com/registration.php>

If you do not have access to a computer please call one of our helpful customer service agents at: **877-688-6426**





877-688-6426



nuvowater.com