

485HE DOWN FLOW QUICK START INSTRUCTIONS

Unpacking / Inspection

Be sure to check the entire softener for any shipping damage or parts loss. Also note damage to the shipping cartons. Contact the transportation company for all damage and loss claims. The manufacturer is not responsible for damages in transit.

Small parts, needed to install the softener, are in a parts bag. To avoid loss of the small parts, keep them in the parts bag until you are ready to use them.

The factory setting for WATER TYPE is WELL / OTHER. Do not adjust this setting until after start-up is complete. If the setting is changed to MUNICIPAL before start-up, the back wash cycle will be skipped.

Installation & Start Up

1. Install unit as per local plumbing codes. (Refer to detail instructions in Owners Manual) Avoid pinched o-rings during installation by applying (provided with install kit) NSF certified lubricant to all seals. Be sure to leave the unit in the "BYPASS" position.
2. Connect the drain line to the valve.
3. Connect the brine line from the valve to the air check / safety elbow. Double check to make sure all connections are assembled correctly and the brass and plastic nuts are tight and secure to prevent leaks.
4. Add water to the brine tank until it is 2" deep in the bottom of the tank. Do not add salt at this time. Turn off main water supply.
5. Plug the power transformer into an approved power source. Connect the power cord to the valve.
6. When power is supplied to the control, the screen will display "INITIALIZING WAIT PLEASE" while it finds the service position.
7. Manually step the valve past the BRINE position to the BACKWASH position. If screen is locked, press SETTINGS for 3 seconds to unlock. Press and hold the MANUL REGEN. Key for 5 seconds. Press any key to skip the BRINE cycle.
8. Once in the BACKWASH cycle, open the inlet on the bypass valve slowly and allow water to enter the unit. Allow all air to escape from the unit before turning the water on fully then allow water to run to drain for 3-4 minutes or until all media fines are washed out of the softener indicated by clear water in the drain hose.
9. Press any button to advance to the RINSE position. Check the drain line flow. Allow the water to run for 3-4 minutes or until the water is clear.
10. Press any button to advance to the REFILL position. Check that the valve is filling water into the brine tank. Allow the valve to refill for the full amount of time as displayed on the screen to insure a proper brine solution for the next regeneration.
11. The valve will automatically advance to the SERVICE position. Open the outlet valve on the bypass, then open the nearest treated water faucet and allow the water to run until clear, close the tap and replace the faucet screen.
12. Add salt into the cabinet / brine tank.
13. Program unit.

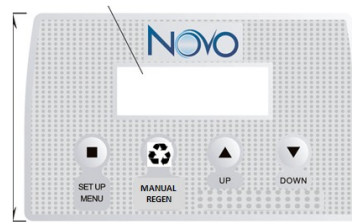


Figure 1. Key Pad Configuration

Programming Guide

Press the SET UP MENU key to enter the programming mode. Use the UP or DOWN key to adjust the value. Press SET UP MENU again to accept the value and advance to the next option.

TIME OF DAY 12:01 PM
YEAR 2012
MONTH AUGUST
DAY 21
SET HARDNESS 20 GRAINS
SET PEOPLE 4
SALT SETTING HIGH EFFICIENCY STANDARD IRON & MN
WATER TYPE MUNICIPAL WELL / OTHER
REGEN TIME 2:00 AM
PROGRAMMING COMPLETE

SET HARDNESS

This value is the maximum compensated water hardness in grains per gallon of the raw water supply. It is used to calculate the system capacity. If Ferrous Iron is present add 4 gpg for every 1 ppm of Ferrous Iron.

SET PEOPLE

This value is the number of people living in the home. It is used to calculate the amount of water needed for daily use and the reserve capacity of the system.

SALT SETTING

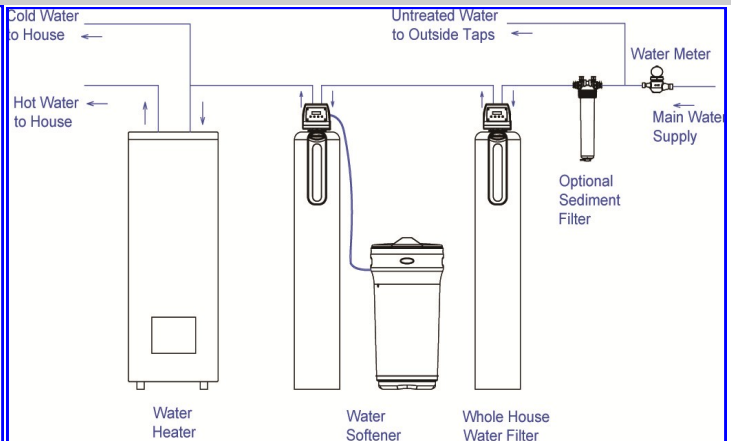
Choose the IRON & MN setting. The higher salt setting will be needed since these minerals are more difficult to clean out of the resin bed. Note: A resin cleaner will also need to periodically added to the brine tank to insure proper operation.

WATER TYPE

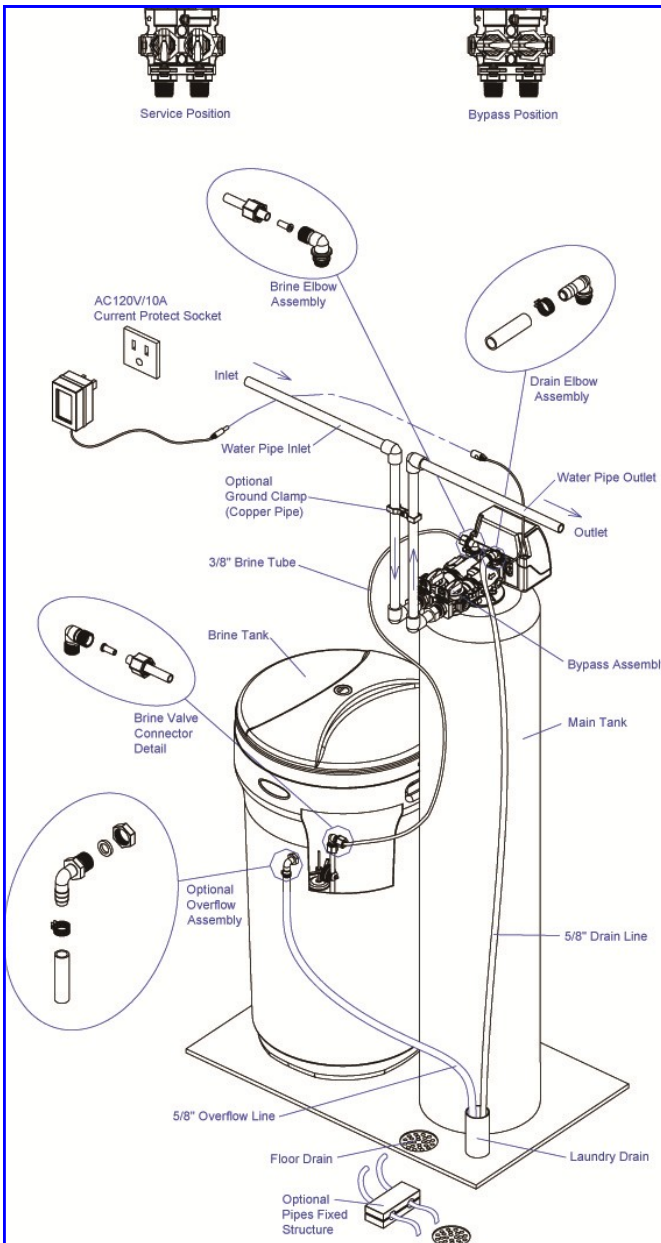
Choose WELL / OTHER to perform a back wash every regeneration.

Installation

- Place the softener as close as possible to the pressure tank (well system) or water meter (city water) and a floor drain or other acceptable drain point (laundry tub, sump, standpipe, etc.).
- Connect the softener to the main water supply pipe **BEFORE** the water heater. **DO NOT RUN HOT WATER THROUGH THE SOFTENER.** Temperature of water passing through the softener must be less than 100 deg. F.
- Keep outside faucets on hard water to save soft water and salt.
- Do not install the softener in a place where it could freeze. **Damage caused by freezing is not covered by the warranty.**
- Put the softener in a place water damage is least likely to occur if a leak develops. The manufacturer will not repair or pay for water damage.
- A 120 volt electric outlet, to plug the included transformer into, is needed within 6 feet of the softener. **Be sure the electric outlet and transformer are in an inside location, to protect from wet weather.**
- If installing in an outside location, you must take the steps necessary to assure the softener, installation plumbing, wiring, etc., are as well protected from the elements, contamination, vandalism, etc., as when installed indoors.
- Keep the softener out of direct sunlight.** The sun's heat may soften and distort plastic parts.



Twin Tank



Chemical Feeder Assembly

Step 1

Install salt plate and align brine well opening with the tank handle.



Step 2

Install feeder bracket into the 2 pre-drilled holes.



Step 3

Install brine well. Feed wick from feeder into the opening in the brine well cap.



Step 4

Push feeder into brine well cap as shown to complete the assembly.

