

1

TIME OF DAY SETTING



Press the SET CLOCK. The screen will show the time of day in blinking numbers.



To change the time of day, press SET CLOCK, use the UP or DOWN arrows to adjust the hour.



Press the SET CLOCK button.



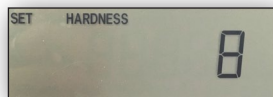
Press the UP or DOWN arrows to adjust the minutes.



Press the SET CLOCK button.

2

HARDNESS SETTING



Press and hold the NEXT and UP buttons for 3 seconds. The screen will show the hardness. The factory default is 10.



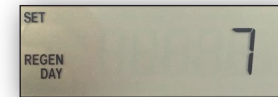
Press the UP or DOWN arrows to adjust the number.



Press the NEXT button.

3

REGENERATION DAY OVERRIDE



The screen will show the regeneration day override in blinking numbers. The factory default is OFF.



Press the UP or DOWN arrows to adjust the number.



Press the NEXT button.

4

TIME OF REGENERATION SETTING



Press the UP or DOWN arrows to adjust the hour. The factory setting is 2 AM.



Press the NEXT button.



Press the UP or DOWN arrows to adjust the minutes.



Press the NEXT button.

System set up is complete!

WTC DEMAND REGENERATION CONTROL VALVE | MORE OPTIONS

SYSTEM START UP

Connect the WTC control valve transformer into the electrical outlet.

Press and hold the **REGEN** button until the drive motor starts. The display will read "**BACK-WASH**" position when the drive motor stops.

Open the inlet ball valve 25% of its full open position. The water is going to enter the tank from the bottom of the distributor pipe and leave the tank from the top. This will slowly purge all the air from the tank. **If the water enters the tank too fast, all the cation resin will be flushed to drain during start up.**

When only water is running to the drain, open the inlet and outlet ball valves fully.

Press the **REGEN** button again, the drive motor will start within seconds. When the drive motor stops, the display will read "**BRINE**" position.

Press the **REGEN** button again, the drive motor will start within seconds. When the drive motor stops, the display will read "**2 BACKWASH**" position.

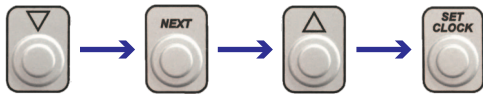
Press the **REGEN** button, the drive motor will start within seconds. When the drive motor stops, the display will read "**RINSE**" position. The fast rinse position will rinse the softener tank.

The control valve will automatically advance to the brine refill position (or press **REGEN** again) where the brine tank will fill with the proper amount of water. The display will read "**FILL**".

Note: The timer will automatically advance to the service position and the display will read the capacity remaining, in gallons. Press **NEXT** to switch to Time of Day.

LOCK/UNLOCK

Press these buttons in this order:



MANUAL REGENERATION



For regeneration at the preset time: when the regeneration time option is set to NORMAL, press and release **REGEN**, the words REGEN TODAY will flash on the display.



For immediate regeneration: press and hold the **REGEN** button for 3 seconds. Valve motor will start.

FINAL CHECK

Fill the brine tank with Solar Salt.

Make sure the drain line connection meets all plumbing codes and that the drain line size can handle the backwash flow rate of the softener.

Make sure the inlet and outlet on the bypass valve are open.

Make sure the control valve timer is plugged into an electrical outlet with power 24 hours per day.

Check all piping for leaks.

RESET CONTROL VALVE



Press and hold the **NEXT** and **REGEN** buttons simultaneously for 3 seconds.

ERROR CODES

Display	Description	Cause
E1 (1001)	Unable to recognize start of regeneration	Defective motor, damaged wiring, or poor wire connection
E2 (1002)	Unexpected electrical or mechanical stall	Defective motor, damaged wiring, poor wire connection, or mechanical component failure
E3 (1003)	Motor running too long or timeout during piston relocating	Damaged wiring, poor wire connection, or mechanical component failure
E4 (1004)	Motor timeout when piston is relocating to service position	Damaged wiring, poor wire connection, or mechanical component failure
(1006)	MAV-No hard water bypass motor ran too long, piston can't find proper position	Unplug transformer from electrical outlet. After 1 minute, connect transformer to electrical outlet. The MAV will synchronize to the proper position.
(1007)	MAV-No hard water bypass motor ran too long, piston can't find proper position and movement is stalled	
(1009)	Internal software error generated by detection of an invalid motor start	Replace circuit board