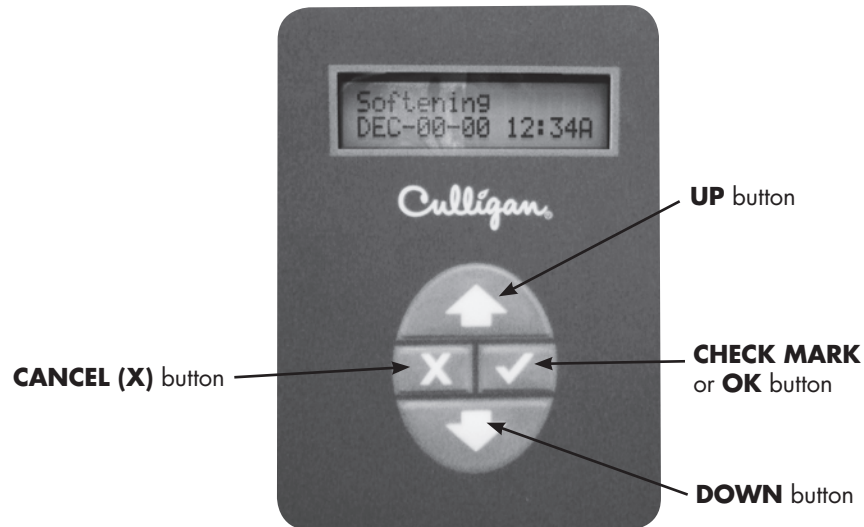




Navigating the Menus and Keypad



UP ARROW button: scrolls up the menu



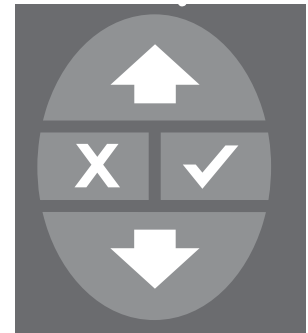
DOWN ARROW button: scrolls down the menu



CHECK MARK button: selects the highlighted option, opens a new screen, or accepts a changed setting



CANCEL or **X** button: returns to the previous screen or cancels a changed setting



Controller



Remote

NOTE Hold down or to quickly scroll through the setting without repeatedly pressing the button.

Softening
JAN-01-12 12:01P

>1) INFORMATION
2) MANUAL MODE

1. This is the **HOME SCREEN**. Press any button except to advance to the **MAIN MENU SCREEN**.
2. This is the **MAIN MENU SCREEN**. The ">" symbol indicates the menu selection. Press or to scroll through the menu.



1) INFORMATION
>2) MANUAL MODE

3. This is the **MAIN MENU SCREEN**. The ">" symbol indicates the menu selection. Press or to scroll through the menu.
4. Press to select a setting.

MANUAL MODE
REGEN NOW

5. The screen displays the setting (Manual Mode) and the current value (Regen Now). Press to change the value.

MANUAL MODE
>REGEN NOW

6. The screen displays the ">" symbol next to the value, indicating that the value may be changed. Press or to change the value. For example, press to change the value to REGEN TONITE. Press again to select the next available value, BYPASS.

MANUAL MODE
REGEN NOW

7. Press to cancel the changed setting and revert to the default setting. The screen displays the default setting.

MANUAL MODE
>BYPASS

8. Press to accept the changed value. If the setting values are displayed, the ">" symbol no longer appears next to the value.

1) INFORMATION
>2) MANUAL MODE

9. The screen then returns to the **MAIN MENU**. Press to return to the **HOME SCREEN**.

Softening
JAN-01-12 12:01P

10. The screen displays the **HOME SCREEN**.

NOTE Unplugging the Culligan HE water softener will not affect any of the control settings (the control must be plugged in for at least 10 minutes). Once programmed, the settings will be stored indefinitely.



First Time Setup

First Time Setup Procedure

When a new controller is first powered on, the screen will display the first time setup message. The HE Controller is designed to simplify the setup and installation process by making some default recommendations during the initial setup. These default settings are appropriate for most common installations.

After completing the plumbing connections to the water softener, turn on and program the HE Controller.

FIRST TIME SETUP
PRESS DOWN ARROW

When a new controller is first turned on, the screen displays **FIRST TIME SETUP**. Press to display the first setup screen.

Serial Number

S/N: 00000123

The screen displays the serial number for this Smart Controller. Press to display the firmware version information screen.

NOTE If this unit will be installed with a modem, it is required that this electronic ID number be reported to Culligan on the IQR form.

Firmware Version

FWR217LT21
Jul 24 2012

The screen displays the firmware version and date installed for this Smart Controller. Press to display the month setup screen.

Set Month (Jan-Dec)

SET MONTH
>JAN

The screen displays the month setting. Press to accept the information displayed (and view the next setting), or press to change the setting.

Press to accept the selected month and advance to the next setting, **SET DAY**.

Set Day (0-31)

SET DAY
>1

The screen displays the day setting. Press to accept the information displayed (and view the next setup screen), or press to change the setting.

Press to see the next available value. Press to accept the selected day and advance to the next setting, **SET YEAR**.

Set Year (2009-2030)

SET YEAR
>2012

The screen displays the year setting. Press to accept the information displayed (and view the next setup screen), or press to change the setting.

Press to see the next available value. Press to accept the selected year and advance to the next setting, **CLOCK TYPE**.



Set Clock Type (12 or 24)

CLOCK TYPE
>12 HR

The screen displays the clock type setting. Press to accept the information displayed (and view the next setup screen), or press to change the setting.

Press to change the clock type from 12-hour to 24-hour. Press to accept the selected clock type and advance to the next setting, **SET HOUR**.

Set Hour (12PM–11AM)

SET HOUR
>12AM

The screen displays the hour setting. Press to accept the information displayed (and view the next setup screen), or press to change the setting.

Press to change the hour (in this example, from 12PM to 10AM). Press to accept the selected hour and advance to the next setting, **SET MINUTES**.

Set Minutes (0–60)

SET MINUTES
>01

The screen displays the minutes setting. Press to accept the information displayed (and view the next setup screen), or press to change the setting.

Press to change the minutes (in this example, from 0 to 20). Press to accept the selected hour and advance to the next setting, **UNIT TYPE**.

Unit Type (Softener, Filter, or Resin + Carbon)

UNIT TYPE
>SOFTENER

The screen displays the unit type setting. Press to accept the default setting (softener) and advance to the next setting, **VALVE TYPE**.

Valve Type (HE 1, HE 1.25, HE 1.5, HE 1 Twin, HE 1.5 Twin, 4-Cycle, 5-Cycle, or Plat Plus)

VALVE TYPE
>HE 1

The screen displays the valve type setting. Press to accept the default setting (**HE 1**) and advance to the next setting, **UNITS**.

Units (US or Metric)

UNITS
>US

The screen displays the units of measure setting. Press to accept the default setting (US) and advance to the next setting, **INSTALL TYPE**.

Install Type (Residential or Commercial)

INSTALL TYPE
>Residential

The screen displays the installation type setting. Keep this at the default, **Residential**. Press to view the next setting, **BRINING TYPE**.



Brining Type (Downflow, Upflow, Proportional)

BRINING TYPE
>Downflow

The screen displays the brining type setting. Press ☒ ☐ or ☐ and then ☒ to change this setting to **Downflow** and view the next setting, **TANK DIAMETER**.

Tank Diameter (9, 10, 12, 14)

TANK DIAMETER
>10

The screen displays the tank diameter setting. Press ☒ ☐ or ☐ and then ☒ to change the value and view the next setting, **WATER HARDNESS**.

Water Hardness (1-170)

HARDNESS GPG
25 (1109 GAL)

The screen displays the water hardness setting in grains per gallon. Press ☒ ☐ or ☐ and then ☒ to change the value and begin initialization.

Completed First Time Setup

Initializing
JAN-01-12 12:01P

When the setup is complete, the circuit board microprocessor automatically calculates softener capacity. The screen displays the initializing status and the current date and time, and then transitions to the home screen.

SOFTENING
JAN-01-12 12:01P

The screen displays the current state (the display alternates between Softening and any error) and the date/time set for the unit. This is the default home screen.

The controller is designed to simplify the setup and installation process by making some default recommendations during the Initial Setup. The default settings are designed to be appropriate for most common installations.



Follow this procedure to update the date or time.

Set Date and Time

NOTE The control must be returned to the **HOME** screen if settings are changed.

Screen Display	Range	Setting Description
SOFTENING JAN-01-12 12:01P	N/A	1. From the HOME screen, press to view the main menu.
>1) INFORMATION 2) MANUAL MODE	1-6	2. The screen displays the main menu. Press to select 3)SET DATE/TIME .
Set Month		
SET MONTH >JAN	Jan-Dec	3. The screen displays the month setting. Press or and then to change the setting.
Set Day		
SET DAY >1	1-31	4. The screen displays the day setting. Press or and then to change the setting.
Set Year		
SET YEAR >2012	2009-2030	5. The screen displays the year setting. Press or and then to change the setting.
Set Clock Type		
CLOCK TYPE > 12 HR	12 HR, 24 HR	6. The screen displays the clock type setting. Press or and then to change the setting.
Set Hour		
SET HOUR > 12PM	12PM-11AM, 0-23	7. The screen displays the hour setting. Press or and then to change the setting.
Set Minutes		
SET MINUTES >01	0-59	8. The screen displays the minutes setting. Press or and then to change the setting.



Screen Display	Range	Setting Description
Set Daylight Savings Time		
DAYLIGHT SAVING YES	Yes, No	9. The screen displays the Daylight Savings Time setting. Press or and then to change the setting.
2)MANUAL MODE >3)SET DATE/TIME		10. The screen displays the main menu. Press to save the changes and initialize the system.
SOFTENING JAN-01-12 12:01P		11. The screen displays the home screen.







The following information can be displayed at the control valve or remote display. These settings are read-only. Press or to scroll through the settings. Press to view the previous setting.

Information

Screen Display	Range	Setting Description
SOFTENING JAN-01-12 12:01P	N/A	1. From the HOME screen, press to view the main menu.
>1) INFORMATION 2) MANUAL MODE	1-6	2. The screen displays the main menu. Press to select 1) INFORMATION .
SALT TANK LEVEL OK	OK, Low	3. If a Salt Brine Tank is installed, this screen displays the salt level. The status is OK unless the SBT probe detects and overfilled brine tank or low salt level. If the screen displays LOW a subsequent screen displays APPROX DAYS OF SALT REMAINING . Press to select the next information screen.
REMAIN CAPACITY 100%	0-100	4. The screen displays the softening capacity remaining, displayed as a percentage of the total capacity. During manually initiated regeneration, assume 0 percent remaining capacity. Press to select the next information screen.
REMAIN CAPACITY 740 GAL	0-no limit	5. The screen displays the softening capacity remaining, measured in gallons (liters). Press to see the next information screen.
CURRENT FLOWRATE 0.0 GPM	0-no limit	6. The screen displays the current flow rate, measured in gallons (liters) per minute. Press to see the next information screen.
TODAY'S USAGE 0 GAL	0-no limit	7. The screen displays today's water usage, measured in gallons (liters). Press to see the next information screen.
AVERAGE DAILY 300 GAL	0-no limit	8. The screen displays average water usage for this configuration. Press to see the next information screen.



Screen Display	Range	Setting Description
NEXT REGEN ON JAN-03	N/A	9. The screen displays the date of the next regeneration, based on average daily water usage. Press  to see the next information screen.
TOTAL WATER USED 1000 GAL	0-no limit	10. The screen the total water used for this configuration. Whole numbers are displayed above 100 gallons. Press  to see the next information screen.
EXT FILT CAP REM 20000 GAL	0-no limit	11. If an external filter is used, the screen displays the remaining capacity of the filter. When the remaining capacity reaches zero, the system triggers the External Filter Alarm. Press  to return to the main menu.
>1) INFORMATION 2) MANUAL MODE		12. The screen displays the main menu. Press  to exit to the home screen.
SOFTENING JAN-01-12 12:01P		13. The screen displays the home screen.





Regeneration

There are several conditions that will cause the control to trip a regeneration. The screen displays **REGEN Tonite** when the control has signaled for a regeneration. Regenerating is displayed while the control is in regeneration. The following are conditions that will call for regeneration:


1. When the Soft-Minder® meter has recorded the passage of a predetermined number of gallons.
2. When the Aqua-Sensor® Probe senses the hardness in the Cullex Media.
3. At the preset time, when the number of days without a regeneration is equal to the regeneration interval (timeclock backup) setting.
4. At the preset time, when Regen Tonite is selected. The screen displays Regen Tonite.
5. Immediately, when the Regen Now is selected. The screen displays Regenerating.
6. Immediately, if power to the unit has been off for more than three hours and the time of day has been restored.
7. At the preset time based on "Day-of-Week" Regeneration setting.

Follow either procedure to bypass the softener or to initiate a manual regeneration or automatically bypass the softener at the control valve or the remote display.

Delayed Regeneration

Screen Display	Range	Setting Description
SOFTENING JAN-01-12 12:01P	N/A	1. From the HOME screen, press  and hold for at least three (3) seconds and then release the button.
REGEN TONITE JAN-01-12 12:01P	Regen Tonite	2. The screen displays the regeneration status on the first line of the display. The system will regenerate at a scheduled time.
REGEN OFF JAN-01-12 12:01P	Regen Off	3. To cancel a delayed regeneration, press  and hold for at least three (3) seconds and then release the button. The screen displays the new status.

Immediate Regeneration

Screen Display	Range	Setting Description
SOFTENING JAN-01-12 12:01P	N/A	1. From the HOME screen, press  and hold for at least ten (10) seconds.
REGEN NOW JAN-01-12 12:01P	Regen Now	2. The screen displays the regeneration status on the first line of the display. The softener will initiate an immediate regeneration.
REGENERATING JAN-01-12 12:01P	N/A	3. The first line of the screen displays REGENERATING .



Standard Manual Regeneration

Screen Display	Range	Setting Description
SOFTENING JAN-01-12 12:01P	N/A	1. From the HOME screen, press to view the main menu.
1) INFORMATION >2) MANUAL MODE	1-6	2. The screen displays the main menu. Press to select 2)MANUAL MODE.
MANUAL MODE >REGEN NOW	Regen Off Regen Now Regen Tonite Bypass	3. The screen displays the manual regeneration menu. Press or and then to change the setting. REGEN NOW is the default. REGEN OFF specifies the softener will not regenerate. REGEN TONITE specifies that the softener will regenerate that night at 2:00 a.m. (or at the preset regeneration time). The screen displays two status messages: SOFTENING and REGEN TONITE . BYPASS specifies a preset softener bypass time. Press to select the total time the softener is in the bypass state.
MANUAL BYPASS OFF	Off, 30, 60, 90, 120, 180, Manual Bypass	4. The screen displays the manual bypass duration, in minutes. This specifies the total time the softener is to be in the bypass state. Press or and then to change the setting.
SOFTENING JAN-01-12 12:01P	N/A	5. Press to display the home screen.