

ENTIPUR[®]

Owner's Manual



ENTIPUR[®] Monitor[™] Valve

- › Adjustable Service Reminder: Factory set to yearly and 80,000 gallons used
 - ◆ Green Light: Plugged in and working
 - ◆ Yellow Light Flashing: 80% of gallons used before audible service alarm
 - ◆ Red Light Flashing: 90% of gallons used
 - ◆ Red Light and Audible Service Alarm: 100% of gallons used (Alarm can be silenced for 2 days by pressing any button)

Information

- › Press the Setup Button to display:
 - ◆ Installer name and phone number
 - ◆ Gallons remaining before regeneration
 - ◆ Days remaining before regen
- › Time of Day
- › Flow Rate
- › Total Flow
- › Peak Flow

Action

- › Press the Regen Button to:
 - ◆ Regen tonight
- › Press and hold the Regen Button to:
 - ◆ Regen now

Adjustment

- › Press and hold Set Clock Button to set clock
- › Press and hold the Setup Button to adjust:
 - ◆ Water hardness and the Entipur[®] Monitor[™] automatically determines gallons between regeneration (for softeners)
 - ◆ Days between regen
 - ◆ Gallons between regen
 - ◆ Regen time
 - ◆ Audible alarm on/off



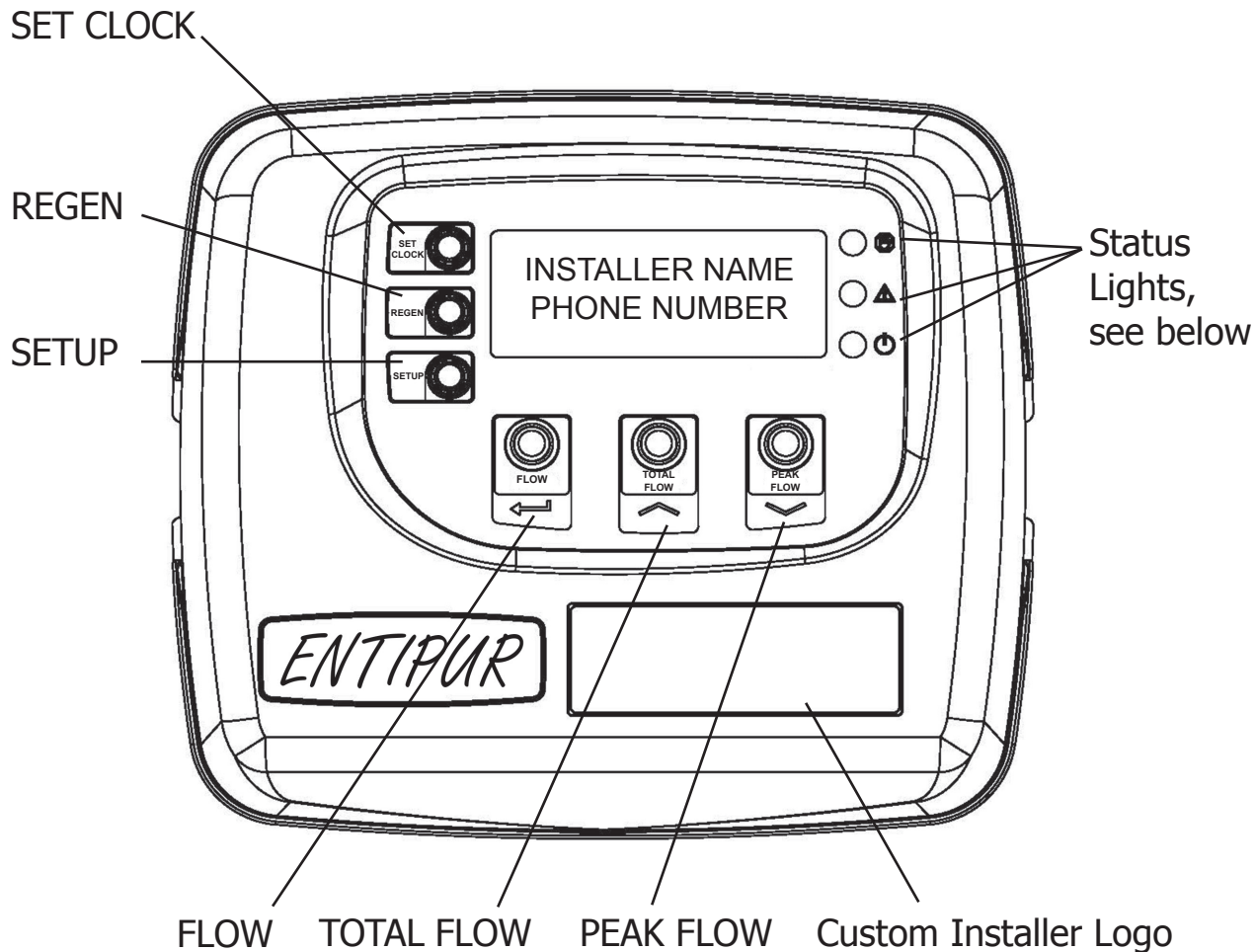
REPCO
Since 1954

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INTERFACE

Keypad Description:

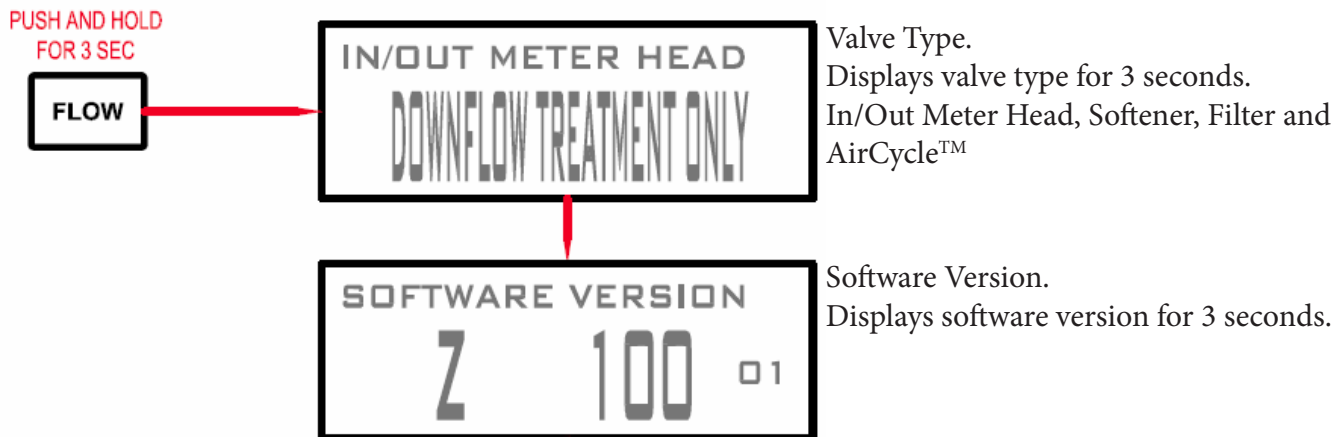


Service Alarm and Status Lights:

- 
Red Light Flashing: 90% of gallons used before service alarm.
- 
Red Light and Service Alarm: 100% of gallons used. The screen will display installer name and phone number. Alarm beeps 3 times every 15 seconds. The alarm can be silenced by pushing any button. Alarm will be silenced for 2 days.
- 
Yellow Light Flashing: 80% of gallons used before service alarm.
- 
Green Light: System is plugged in and working fine.

OPERATION

Valve Type:



Manual Regeneration:

Note: For softeners, if brine tank does not contain salt, fill with salt and wait at least 2 hours before regeneration.

If you need to initiate a manual regeneration, either immediately, or tonight at the preprogrammed time for regeneration (typically 2:00 AM), complete the following steps:

1. For Immediate Regeneration:

Press and hold REGEN button until valve motor starts (typically 3 seconds)

2. For Regeneration Tonight:

Press and release REGEN button (notice that flashing "REGEN TODAY" appears)

Note: For immediate regeneration and regeneration tonight, follow instruction 2. followed by instruction 1. above.

Refer below for default settings of regeneration cycle.

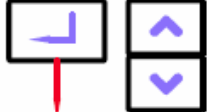
OPERATION

Set Clock:

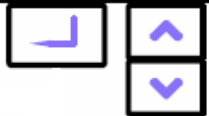
PUSH AND HOLD FOR 3 SEC



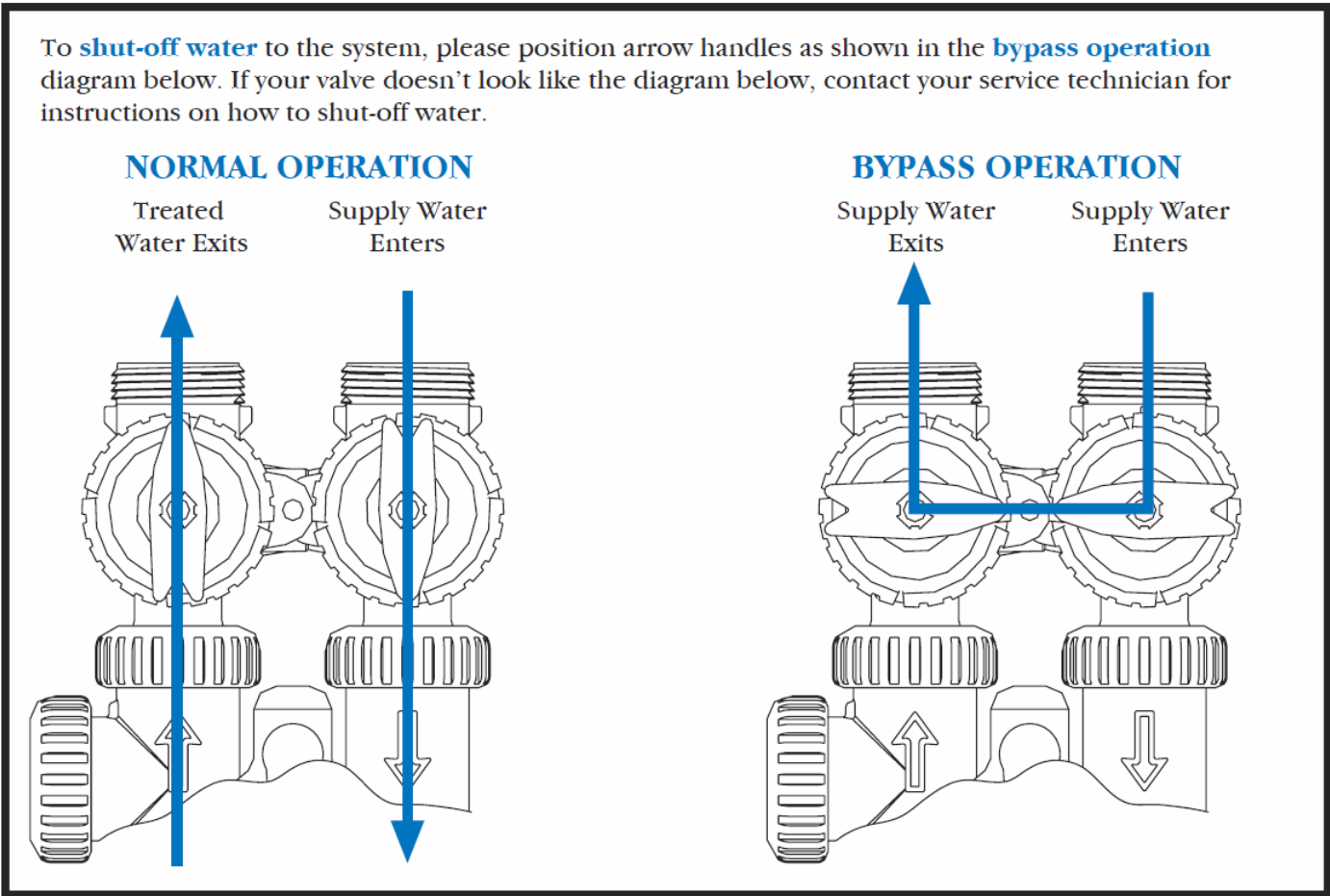
Set Time 1
Adjust hours with the ▲ or ▼ Buttons.
AM / PM toggles after 12 AM
Setting is automatically exited after 5 minutes of inactivity.



Set Time 2
Adjust minutes with the ▲ or ▼ Buttons.
Setting is automatically exited after 5 minutes of inactivity.



Bypass Operation:



DEFAULT REGEN VALUES

Softener, Four Valve Types:

1. SOFTENING DN* POST* Default Settings

Regen Frequency:
Gallons between Regeneration = Automatically Calculated
Days between Regen = 7 Days

Regen Cycle Steps and Duration:
Backwash = 8:00 Min
Regenerant Draw Down = 60:00 Min
Backwash 2 = 8:00 Min
Rinse = 4:00 Min
Fill = 5:11 Min

2. SOFTENING DN* PRE* Default Settings

Regen Frequency:
Gallons between Regeneration = Automatically Calculated
Days between Regen = 7 Days

Regen Cycle Steps and Duration:
Fill = 5:11 Min
Softening = 240:00 Min (Still treating water)
Backwash = 8:00 Min
Regenerant Draw Down = 60:00 Min
Backwash 2 = 8:00 MIN
Rinse = 4:00 MIN
Fill = 0:05 MIN

3. SOFTENING UP* POST* Default Settings

Regen Frequency:
Gallons between Regeneration = Automatically Calculated
Days between Regen = 7 Days

Regen Cycle Steps and Duration:
Rinse = 0:15 Min
Regenerant Draw Up = 60:00 Min
Backwash = 8:00 Min
Rinse = 4:00 Min
Fill = 5:21 Min

4. SOFTENING UP* PRE* Default Settings (Proportional Brining)

Regen Frequency:
Gallons between Regeneration = Automatically Calculated
Days between Regen = 7 Days

Regen Cycle Steps and Duration:
Fill = **:** Min (Proportional to gallons used)
Softening = 240:00 Min (Still treating water)
Rinse = 0:15 Min
Regenerant Draw Up = 60:00 Min
Backwash = 8:00 Min
Rinse = 4:00 Min
Fill = 0:05 Min

DEFAULT REGEN VALUES

AirCycle™ :

Regen Frequency:

Gallons between Regeneration = 300 Gallons

Days between Regen = 4 Days

Regen Cycle Steps and Duration:

Air Release = 10:00 Min (Time decreases without service flow)

Backwash = 10:00 Min

Air Charge = 10:00 Min

Filter, Two Valve Types:

1. BACKWASH FILTER Default Settings

Regen Frequency:

Gallons between Regeneration = 300 Gallons

Days between Regen = 4 Days

Regen Cycle Times and Duration:

Backwash = 10:00 Min

Rinse = 10:00 Min

2. FILTERING DN* POST* Default Settings

Regen Frequency:

Gallons between Regeneration = 300 Gallons

Days between Regen = 4 Days

Regen Cycle Times and Duration:

Backwash = 10:00 Min

Regenerant Draw Down = 60:00 Min

Backwash 2 = 10:00 Min

Rinse = 10:00 Min

Fill = 1:44 Min

*DN = Down Flow Regenerant Draw

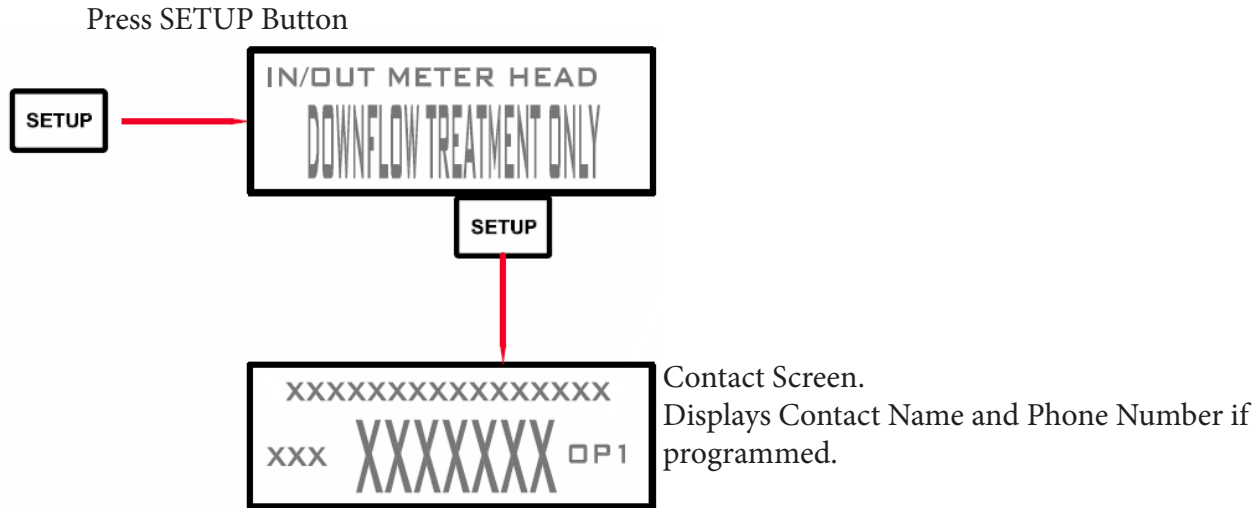
*UP = Upflow Regenerant Draw

*POST = Post Regenerant Fill, Final Regen Cycle Step for Regenerant Fill

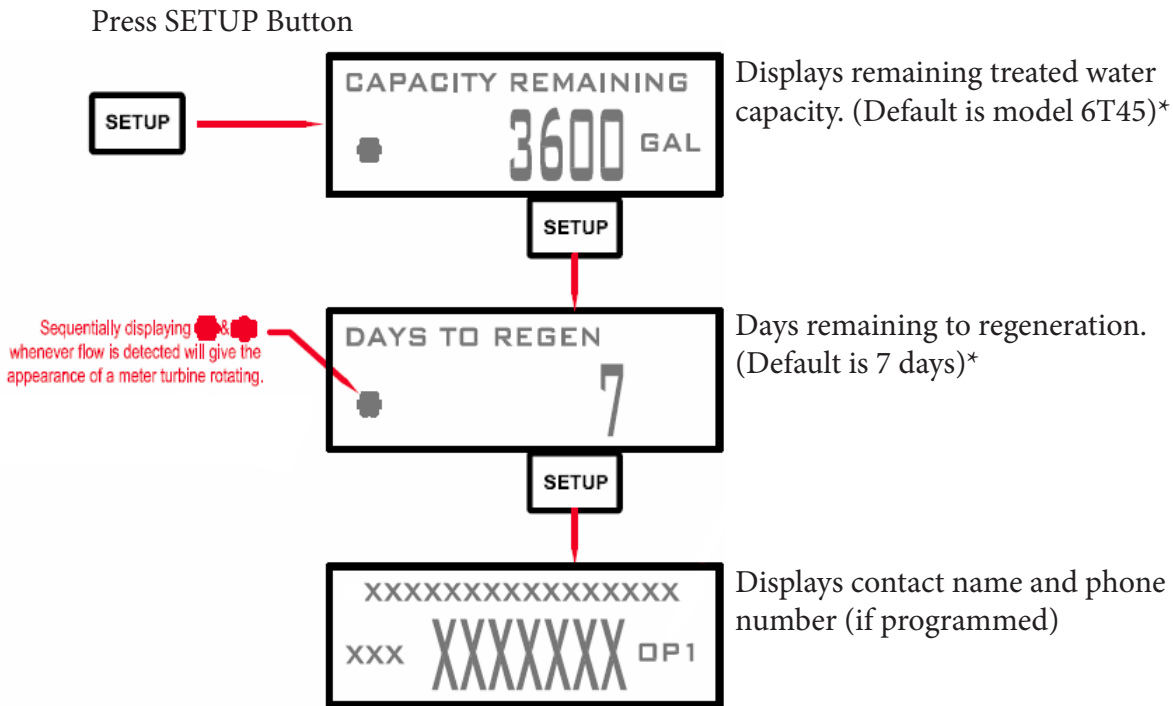
*PRE = Pre Regenerant Fill, First Regen Cycle Step for Regenerant Fill

SETUP VALUES

In/Out Meter Head:



Softener:

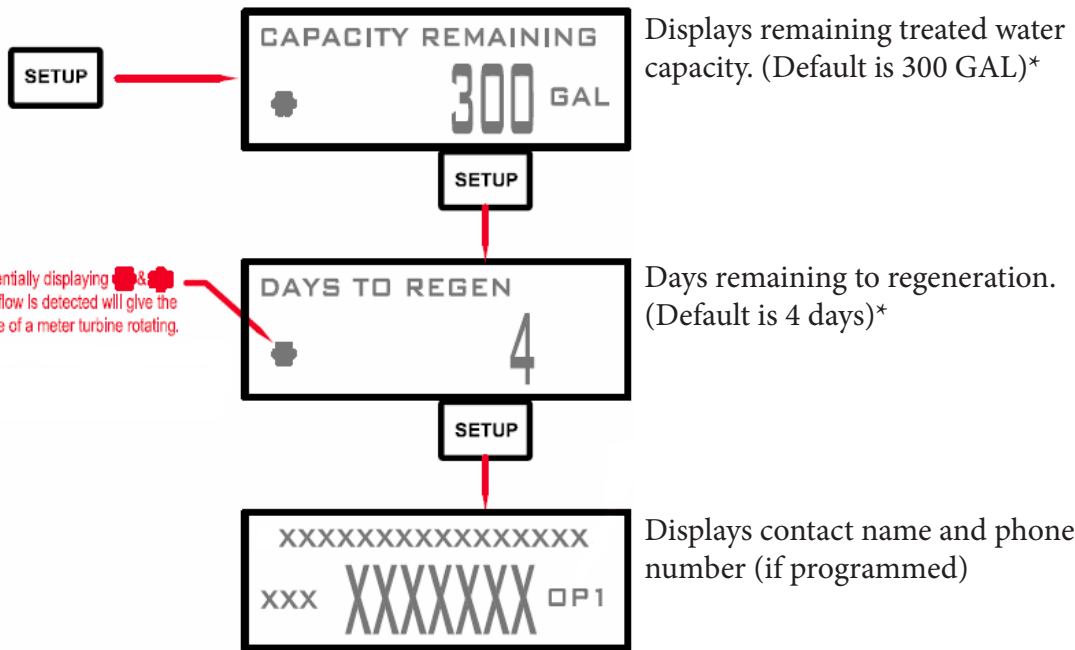


* While viewing this display, push and hold the ▼ Button for 3 seconds, then push the ▼ Button once per 10 gallons to temporarily decrease the displayed value, pushing a different button or 5 minutes of keypad inactivity will exit this special decrement mode.

SETUP VALUES

Filter and AirCycle™:

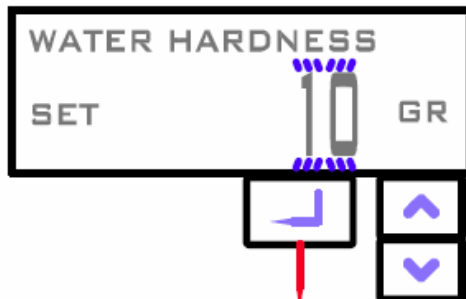
Press SETUP Button



* While viewing this display, push and hold the ▼ Button for 3 seconds, then push the ▼ Button once per 10 gallons to temporarily decrease the displayed value, pushing a different button or 5 minutes of keypad inactivity will exit this special decrement mode.

ADJUST SETUP VALUES**Softener:**

Press and Hold SETUP Button



Inlet Water Hardness.

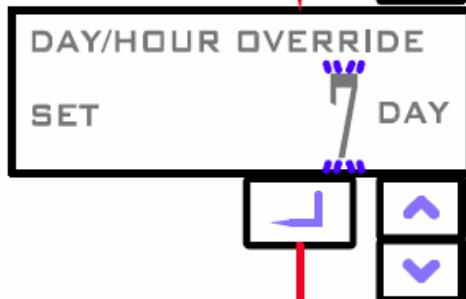
Set hardness value in grains per gallon (GPG)

Adjustable from 1 - 150 GPG

(Default = 10 GPG)

How to compensate for dissolved iron and manganese: In general, add 4 GPG to the hardness value for each PPM of iron and manganese.

The Entipur® Monitor™ Valve will automatically compensate for the additional hardness and regenerate more frequently.



Day or Hour override.

Set the maximum number of days or hours between regeneration.

(Default = 7 days)



Regeneration Time - Hour.

Set hour of the delayed regeneration time.

(Default = 2:00 AM)



Regeneration Time - Minute.

Set minute of the delayed regeneration time.

(Default = 2:00 AM)



Audio Alarm Operation.

Operation = Whenever the threshold trigger volume/time reaches 100% used, or the Error Mode is entered, the onboard alarm buzzer will beep 3x every 15 seconds until reset. Pushing any keypad button while the audible beep is active will temporarily silence beep for 2 days.

OFF = Deactivates this alarm

(Default = ON)

ADJUST SETUP VALUES

Filter and AirCycle™:

Press and Hold SETUP Button



Day or hour override.
Set the maximum number of days or hours between regeneration.
1 - 28 days, 1 - 23 hours, or OFF
(Default = 4 days)



Set gallons between Regeneration.
(Default = 300 GAL)

Range (Gallons)	Increment
20 - 2,000	20
2,000 - 10,000	100
10,000 - 50,000	500
50 - 1,500 x1,000	2,000



Regeneration Time - Hour.
Set hour of the delayed regeneration time.
(Default 12:00 PM)



Regeneration Time - Minute.
Set minute of the delayed regeneration time.
(Default 12:00 PM)



Audio Alarm Operation.
Operation = Whenever the threshold trigger volume/time reaches 100% used, or the Error Mode is entered, the onboard alarm buzzer will beep 3x every 15 seconds until reset. Pushing any keypad button while the audible beep is active will temporarily silence beep for 2 days.
OFF = Deactivates this alarm
(Default = ON)

R.E. Prescott Co., Inc. LIMITED WARRANTY

R.E. Prescott Co., Inc. (“REPCO”) warrants to the Professional Installer (“DEALER”) that its Entipur® Monitor™ Valve will be free from defects in material and workmanship under normal use and service for a period of five years from the date of shipment of such Valves from REPCO in Exeter, New Hampshire when installed and operated within recommended parameters. No warranty is made with respect to defects not reported to REPCO within the warranty period and/or defects or damages due to neglect, misuse, alterations, accident, misapplication, physical damage, or damage caused by fire, acts of God, freezing or hot water or similar causes. For outdoor installations where the Softener and Filter Control Valves are not under cover, the weather cover must be utilized for the warranty to be valid.

REPCO’s obligation under this Limited Warranty shall be limited, at its option, to replacement or repair of any Entipur® Monitor™ Valve covered by this Limited Warranty. Prior to returning a Control Valve, DEALER must obtain a return goods authorization number from REPCO and return the Control Valve freight prepaid. If any Control Valve is covered under this Limited Warranty, REPCO shall return the Control Valve repaired, or its replacement, prepaid to the original point of shipment.

REPCO GIVES THIS WARRANTY TO DEALER IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND HEREBY EXPRESSLY DISCLAIMS ALL OTHER SUCH WARRANTIES. REPCO’S LIABILITY HERE UNDER SHALL NOT EXCEED THE COST OF THE PRODUCT. UNDER NO CIRCUMSTANCES WILL REPCO BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR ANY OTHER LOSS, DAMAGE OR EXPENSE OF ANY KIND, INCLUDING LOSS OF PROFITS, ARISING IN CONNECTION WITH THE INSTALLATION OR USE OR INABILITY TO USE THE CONTROL VALVES OR ANY WATER TREATMENT SYSTEM THE CONTROL VALVE IS INCORPORATED INTO.