

Every Job "Well" Done

Wallace Control Systems Corp.

Office: 5-3958 Quadra St. Victoria BC V8X 1J2



OWNER'S MANUAL

Nextsand Filter

We have put together these instructions as reference.

This water system should be installed ONLY by a water system professional.

Summary:

The Nextsand filter removes turbidity, silt, and other ultra-fine particles until the allotted amount of gallons (amount depends on quality of incoming water) have passed through the filter which then pauses operation, begins a backwash cycle resets the allotted gallons and resumes operation.

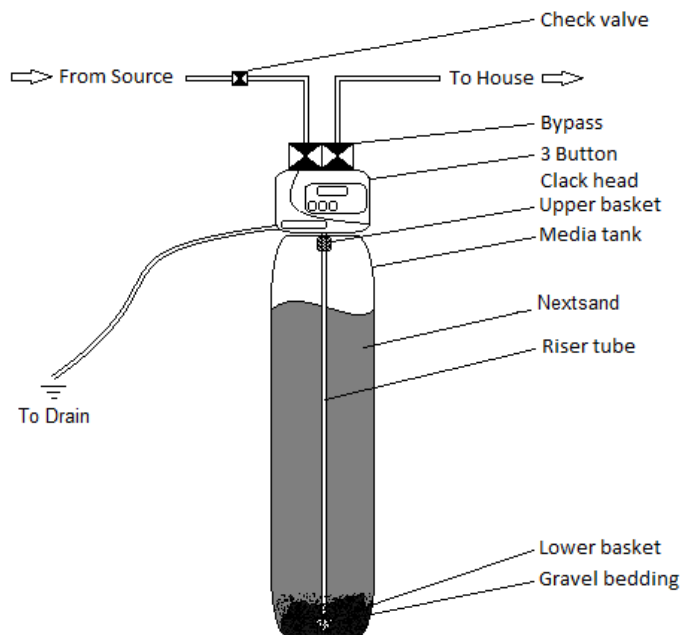
REMOVES

- Turbidity
- Silt
- Ultra-fine particles

PRODUCT BENEFITS

- Higher flow rate
- High capacity (less backwashing)
- Filters down to less than 5 Micron
- Only requires backwash

Typical Installation:

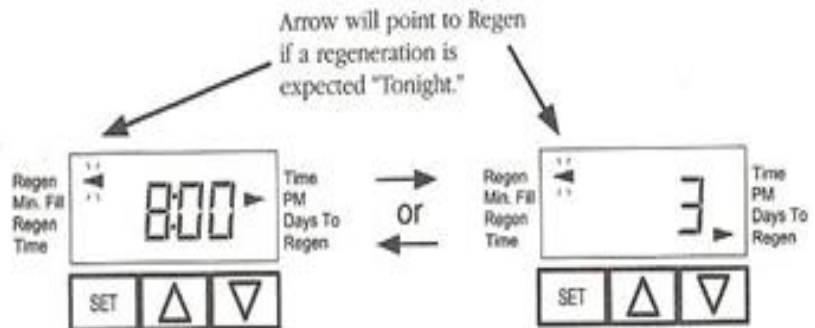


Head programming

PLEASE NOTE: For complete instructions refer to manual. Hand tighten nuts only.

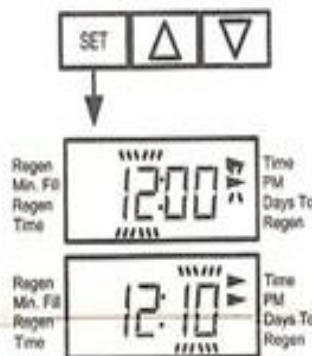
GENERAL OPERATION

When the system is operating one of two displays will be shown: time of day or days until the next regeneration. Pressing ▲ or ▼ button will toggle between the two choices.



TO SET TIME OF DAY

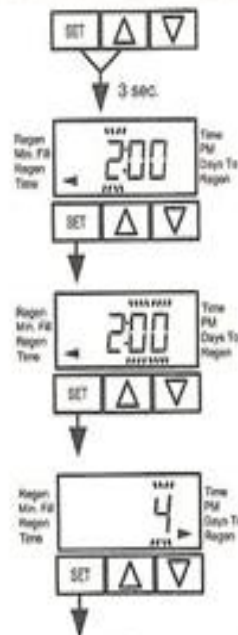
In the event of a prolonged power outage, time of day flashes, indicating that it needs to be reset. All other information will be stored in memory no matter how long the power outage. Please complete the steps as shown to the right. To access this mode, press "SET."



1. Accessed by pressing SET for approximately 3 seconds.
2. Adjust hour with ▲ or ▼. With 60 Hz line frequency detection on power-up, timekeeping is 12 hour with PM indicator. With 50 Hz line frequency detection on power-up, timekeeping is 24 hour without the PM indicator. Press SET to go to the next step.
3. Adjust minutes with ▲ or ▼.
4. Press SET to complete and return to normal operation.

TO SET TIME OF REGENERATION AND DAYS BETWEEN REGENERATION

For initial set-up or to make adjustments, please complete the steps as shown. Access this mode by pressing SET and ▲ for approximately 3 seconds. The number of days between regenerations may need to be varied based on usage and water conditions. (This step will not appear if the 7-day clock option is selected.)



1. Accessed by pressing SET and ▲ simultaneously for about 3 seconds.
2. Set Regeneration Time Hour. Set the time for regeneration to start. Press SET to go to the next step.
3. Set Regeneration Time Minutes. Press SET to go to the next step.
4. Set number of Days between regeneration cycles.
5. Press SET to complete and return to normal operation.

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MANUAL REGENERATION

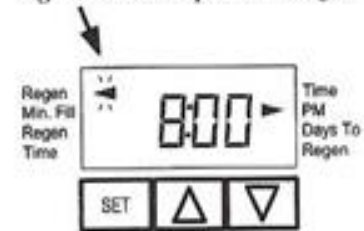
NOTE: For softeners, if brine tank does not contain salt, fill with salt and wait at least 2 hours before regeneration.

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

For Immediate Regeneration:

Press and hold ▲ and ▼ simultaneously until valve motor starts (typically 3 seconds).

Arrow will point to Regen if a regeneration is expected "Tonight."



For Regeneration Tonight:

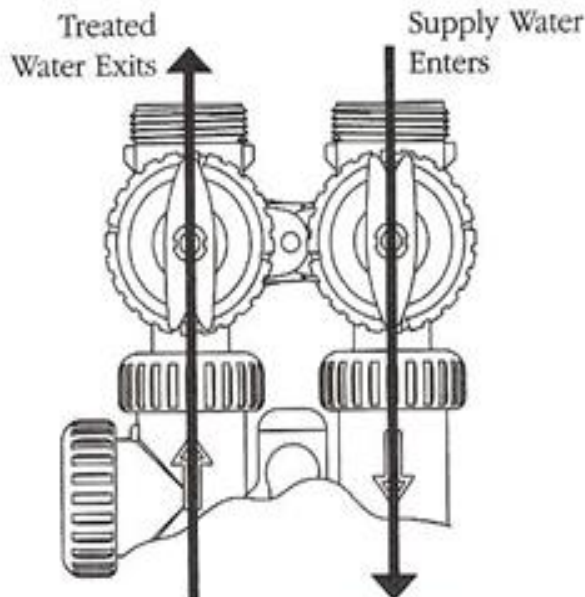
Press and release ▲ and ▼ simultaneously (notice that arrow points to Regen).

If the display shows "E1," "E2," "E3," or "E4" (for error), call a service technician.

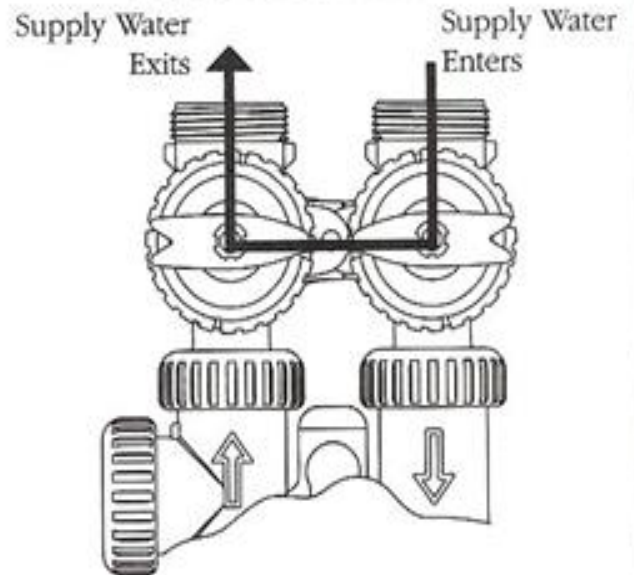


To shut off water to the system, please position arrow handles as shown in the bypass operation diagram below. If your valve doesn't look like the diagram below, contact your service technician for instructions on how to shut off water.

NORMAL OPERATION



BYPASS OPERATION



For service person programming instructions please contact Wallace controls.

Troubleshooting Procedures

Problem	Possible Cause	Solution
1. Timer does not display time of day	a. AC adapter unplugged	a. Connect power
	b. No electric power at outlet	b. Repair outlet or use working outlet
	c. Defective transformer	c. Replace transformer
	d. Defective PC board	d. Replace PC board
2. Timer does not display correct time of day	a. Switched outlet	a. Use uninterrupted outlet
	b. Power outage	b. Reset time of day
	c. Defective PC board	c. Replace PC board
3. Control valve regenerates at wrong time of day	a. Power outages	a. Reset control valve to correct time of day
	b. Time of day not set correctly	b. Reset to correct time of day
	c. Defective PC board	c. Reset regeneration time
4. E1, E2, or E3 E1 - Unable to recognize start of regeneration E2 - Unexpected stall E3 - Motor ran too long, timed out trying to reach the next cycle position or trying to reach home position	a. Control valve has just been serviced	a. Press SET HOUR and DOWN for 3 seconds or unplug power source Jack (black wire) from the circuit board and plug back in to reset control valve.
	b. Foreign matter is lodged in control valve	b. Check piston and spacer stack assembly for foreign matter.
	c. High drive forces on piston	c. Replace piston(s) and spacer stack assembly
	d. Control valve piston not in home position	d. Press SET HOUR and DOWN for 3 seconds or unplug power source Jack (black wire) from the circuit board and plug back in to reset control valve
	e. Motor not inserted fully to engage pinion, motor wires broken or disconnected, motor failure	e. Check motor and wiring. Replace motor if necessary
	f. Drive gear label dirty or damaged, missing or broken gear	f. Clean drive gear
	g. Drive bracket incorrectly aligned to back plate	g. Reseat drive bracket properly
	h. PC board is damaged or defective	h. Replace PC board
	i. PC board incorrectly aligned to drive bracket	i. Ensure PC board is correctly snapped on to drive bracket
	5. Control valve stalled in regeneration	a. Motor not operating
b. No electric power at outlet		b. Repair outlet or use working outlet
c. Defective AC adapter		c. Replace AC adapter
d. Defective PC board		d. Replace PC board
e. Broken drive gear or drive cap assembly		e. Replace piston kit
f. Broken piston retainer		f. Replace piston kit
g. Broken main or regenerant piston		g. Replace piston kit
7. Control valve does not regenerate automatically when UP and DOWN button is depressed and held	a. AC adapter unplugged	a. Connect AC adapter
	b. No electric power at outlet	b. Repair outlet or use working outlet
	c. Broken drive gear or drive cap assembly	c. Replace drive gear or drive cap assembly.
	d. Defective PC board	d. Replace PC board
8. Control valve does not regenerate automatically but does when UP and DOWN button is depressed and held	a. Defective PC board	a. Replace PC board
	b. Set-up error	b. Check control valve set-up procedure



**5 Year Warranty on the Control Head
10 Year Warranty on the Media Tank and Brine Tank
Nextsand Filter**

Thank you for your purchase of our Nextsand Filter. For proof of purchase, please retain your Invoice/Sales Order Copy.

Warranty ~ Offered

Wallace Control System Corp warranties its products to be free from defect in materials to the original owner from the date on the proof of purchase as described below.

Warranty ~ Working Procedures

If during the suitable warranty period, a part is defective, then WCSC will repair or replace that part at no charge to the original owner, with the exception of charges for nominal shipping.

Warranty ~ Coverage Outlined

WCSC guarantees, to the original owner, a period of 5 years, the ELECTRONIC CONTROL HEAD as well as all parts to be free of defects in materials and to perform their normal functions. To the original owner, the MEDIA TANK and BRINE TANK will not rust, corrode, leak, burst or in any other form fail to perform their proper functions for a LIFETIME period of 10 YEARS.

Warranty ~ Service

In the event you require service, your local WCSC Dealer will provide all necessary service and installation for your Nextsand Filter. To obtain warranty service within 30 days of discovery of the defect, notification must be given to your local WCSC Dealer.

General Provisions

The above warranties are effective provided the Nextsand Filter is operated at water pressures not exceeding 125psi and at water temperatures not exceeding 120°F; also provided that the Nextsand Filter is not subject to abuse, misuse, alteration, neglect, freezing, accident or negligence; and provided further that the Nextsand filter is not damaged as the result of any unusual force of nature such as, but not limited to flood, hurricane, tornado or earthquake. WCSC is excused if failure to perform its warranty obligations is the result of strikes, government regulation, materials shortages or other circumstances beyond its control.

THERE ARE NO WARRANTIES ON THE NEXTSAND FILTER BEYOND THOSE SPECIFICALLY DESCRIBED ABOVE. ALL IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, ARE DISCLAIMED TO THE EXTENT THEY MIGHT EXTEND BEYOND THE ABOVE PERIODS. THE SOLE OBLIGATION OF WCSC UNDER THESE WARRANTIES IS TO REPLACE OR REPAIR THE COMPONENT OR PART PROVES TO BE DEFECTIVE WITHIN THE SPECIFIED TIME PERIOD AND WCSC IS NOT LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. NO DEALER, AGENT, REPRESENTATIVE OR OTHER PERSON IS AUTHORIZED TO EXTEND OR EXPAND THE WARRANTIES EXPRESSED ABOVE.

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Canada**

