



System Start-Up & Operation Guidelines

WHY PAY MORE AND FILTER LESS?

Start-Up Instructions

Water-only Backwash

1. Check that the correct backwash (BW) flowrate has been determined based on the water temperature. (See table II below)
2. Allow the tank to slowly fill with water from the bottom. This is most easily accomplished by setting the control valve to the backwash position and partially opening the inlet valve until water flows from the drain line.
3. Allow the next-Sand to soak for at least 30 minutes.
4. Fully open the inlet valve and set the control valve in the backwash position.
5. Depending on how critical the application is, allow the filter to backwash for 20 to 30 minutes. Continue the backwash until the water is clear and free of particles. This is backwash #1.
6. Allow the filter to settle for 10 to 15 minutes. Do not allow the control valve to enter the fast rinse cycle.
7. Depending on how critical the application is, allow the filter to backwash again for 15 to 20 minutes. This is backwash #2.
8. Allow the filter to fast rinse (downflow) for 5 to 8 minutes.
9. The filter is now ready for service.

Operation Guidelines

Table I. Next-Sand operation guidelines for general valve programming.

Valve Programming			
Backwash Frequency	Backwash Duration	Settling	Rinse
Based on Delta P	10 Minutes	2+ Minutes	3 Minutes

Table II. Backwash rate of Next-Sand must be adjusted for various water temperatures.

Temp. Corrected Backwash Flow Rates	Tank Diameter (in)					Reference
	8"	10"	12"	14"	16"	
gpm @ 80°F	8	12	18	24	31	23 gpm/ft ²
gpm @ 70°F	7	11	16	21	28	20 gpm/ft ²
gpm @ 60°F	6	9	13	18	24	17 gpm/ft ²
gpm @ 50°F	5	8	12	16	21	15 gpm/ft ²
gpm @ 40°F	4	7	10	13	17	13 gpm/ft ²

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