next™ filtration technologies inc.

System Application & Assembly Guidelines

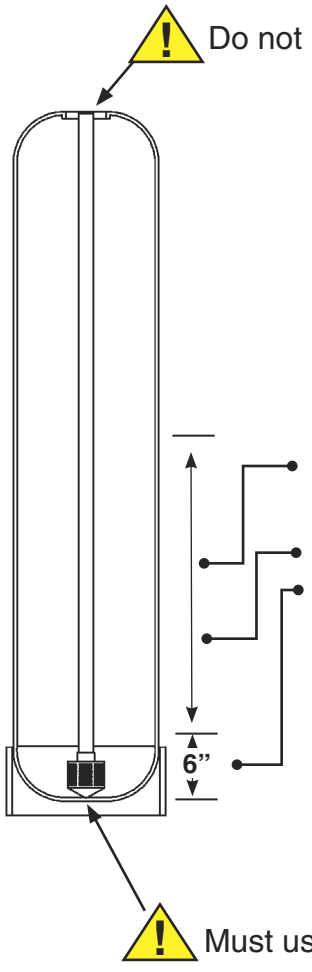
next™ Sand
Silt-Sediment-Turbidity

Residential-Light Commercial
Single Tank Systems
Intermittent Duty

Application Guidelines

Select system based on the application flow requirements.

Service Flow 3-5 Micron	**4 gpm**	**7 gpm**	**9 gpm**	**13 gpm**
Service Flow 5-8 Micron	**7 gpm**	**11 gpm**	**16 gpm**	**21 gpm**
Tank Diameter	**8”**	**10”**	**12”**	**14”**



System Assembly Guidelines

Tank Diameter		**8”**	**10”**	**12”**	**14”**
Tank Height		44”	54”	52”	65”
Filter Media Bed Depth		23”	30”	30”	36”
		ft³	**ft³**	**ft³**	**ft³**
Filter Media	**nextSand**	0.7	1.4	1.8	3.2
Underbed Media	1/4 x 1/8 Gravel	0.15	0.24	0.35	TBD

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Start-Up Instructions

Water-only backwash

1. Check that the correct backwash (BW) flowrate has been determined based on the water temperature. (See table 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

Operation Guidelines-Valve Programming

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

Backwash Rate

Tank Dia.	8”	10”	12”	14”	16”	Reference
gpm@80F	8	12	18	24	31	23 gpm/ft²
gpm@70F	7	11	16	21	28	20 gpm/ft²
gpm@60F	6	9	13	18	24	17 gpm/ft²
gpm@50F	5	8	12	16	21	15 gpm/ft²
gpm@40F	4	7	10	13	17	13 gpm/ft²