



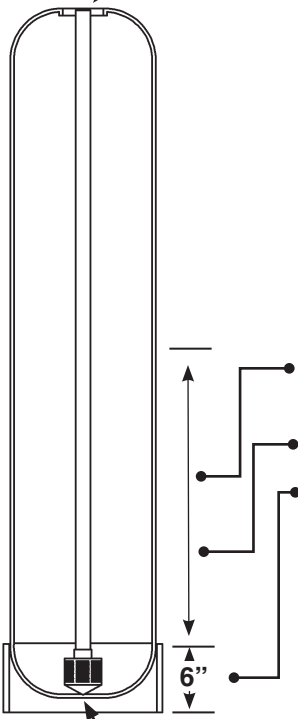
**Residential-Light Commercial  
Single Tank Systems  
Intermittent Duty**

**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"

Do not use upper screen.



**System Assembly Guidelines**

Tank Diameter		8"	10"	12"	14"
Tank Height		44"	54"	48"	65"
Filter Media Bed Depth		23"	30"	30"	36"
		ft <sup>3</sup>	ft <sup>3</sup>	ft <sup>3</sup>	ft <sup>3</sup>
Filter Media	nextSand	0.5	0.7	1.0	1.4
Underbed Media	1/4 x 1/8 Gravel	0.15	0.24	0.35	TBD

Must use Clack D1212-04 lower distributor (8-12" tanks.)



**Start-Up Instructions**

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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. 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**

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**Operation Guidelines-Valve Programming**

<b>Backwash Frequency</b>	Based on Delta P
<b>Backwash Duration</b>	10 Minutes
<b>Settling</b>	2+ Minutes
<b>Rinse</b>	3 Minutes

**Backwash Rate (20 gpm/ft<sup>2</sup>@70°F)**

Tank Dia.	8"	10"	12"	14"	16"
gpm@80F	8	12	18	24	31
gpm@70F	7	11	16	21	28
gpm@60F	6	9	13	18	24
gpm@50F	5	8	12	16	21
gpm@40F	4	7	10	13	17