WATER SOFTENER PRETREATMENT SPECIFICATIONS

GE OSMONICS PRETREATMENT EQUIPMENT

A water softener is utilized to remove from scale forming calcium and magnesium ions from the feed water supply. The media is a sodium cycle ion exchange resin regenerated with sodium chloride. Gravel is used at the bottom of the media tank to support the media bed, depending on tank size.

FEATURES:

GE Osmonics water softeners can be supplied in the following sizes and style:

- Up to 15 cu. ft (cubic feet) of media with a maximum exchange capacity of 450,000 grains service flows of up to 44 gpm (gallons per minute)
- Multiple control valves are available including GE Osmonics Autotrol Magnum and Performa lines control valves.
- All valves are fully automatic in that they provide the regeneration cycle at preset times. Manual regenerations can be initiated when required.
- Interlock switch provides for RO shut down during regeneration.
- Battery clock backup on the Performa and Magnum control heads.

SPECIFICATIONS:

1. Materials of Construction

Tank – NSF approved ABS lined fiberglass reinforced plastic (FRP).

Magnum valves – Glass filled Noryl

Performa valves – Glass filled Noryl

2. Media

The medias used include a polystyrene sodium cycle ion exchange resin and gravel underbedding (on larger tank sizes).

GUIDELINES FOR WATER SOFTENER TANK SIZING:

Due to the complexity and amount of variables, please consult the factory for water softener tank sizing.

GE Osmonics - 7848 S. 202nd Street Kent, Washington 98032 (253) 395-2200 or (800) 633-3080

GUIDELINES FOR INSTALLATION:

1. Voltage Requirements

The Magnum and Performa valves require an 115VAC / 60Hz single phase power outlet. They include a detachable 12 volt plug-in transformer for actual operating voltage.

2. Operating Pressures

The Magnum and Performa valves require a minimum dynamic operating pressure of 25 psi for proper valve operation.

The maximum operating pressure is 120 psi.

3. Operating Space

For proper serviceability, it is recommended that there be 18" of space around each tank. This includes front, back, and sides. A minimum of 12" is required. The tanks should be installed in a firm level area.

4. Additional Installation Considerations

③ The inlet piping should be sized large enough to provide the required water flow for both service flow and backwashing of the tanks with minimum amount of pressure loss.

③ A drain with suitable capacity for the backwash flow rate of the tanks is required.

③ Pressure gauges should be installed on the inlet and outlet piping of each tank.

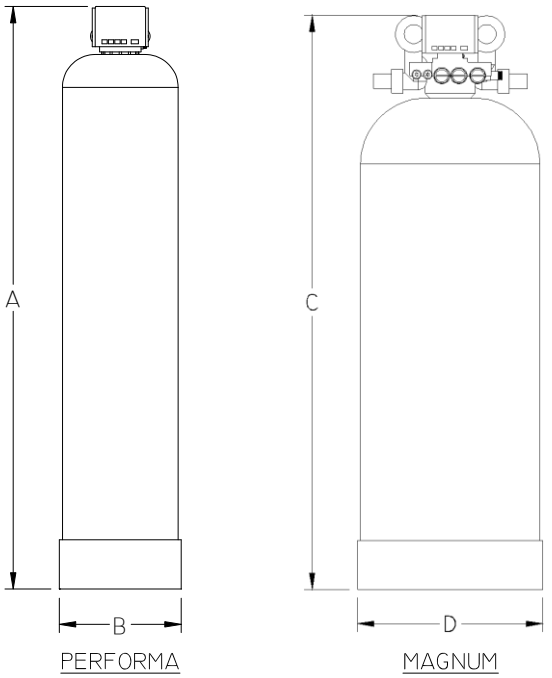
③ A sample valve should be installed on the inlet and outlet piping of each tank.

③ It is preferred that the plumbing connections are left to right (i.e. the first pretreatment device is on the left of the second piece and so on) but can be installed either direction.

DIMENSIONS (Magnum and Performa valves):

Plumbing Connections:

Performa – Inlet and outlet are 1” PVC pipe connections, drain is 3/4"MNPT
Magnum – All connections are 1 1/2" PVC pipe connections



Brine Tank Information

Brine Tank	Height (in inches)	Width (in inches)	Operating Weigh (in lbs.)	Salt Capacity (in lbs.)
A	40	18	500	400
B	41	24	686	500
C	50	24	997	600
D	51	30	1,730	900

Dimensions

GE Osmonics Model No.	Capacity of Softener Media (cu. Ft)	Dimensions (in inches)				Operating Weight of Softener (in lbs.)	Shipping Weight of Softener (in lbs.)	Brine Tank	Service Flow (in gpm)	Drain Flow (in gpm)	Exchange Capacity (maximum)	Control Head
		A	B	C	D							
E1228533	1	48	9	-	-	165	110	A	9	2	30,000	Performa
E1228534	1 1/2	50	10	-	-	197	130	A	10	2.5	45,000	Performa
E1228535	2	52	12	-	-	320	210	A	15	4	60,000	Performa
E1228536	3	-	-	65	14	409	240	B	21	5	90,000	Magnum
E1228537	4	-	-	65	16	487	320	B	28	7	120,000	Magnum
E1228538	5	-	-	62	20	817	380	B	43	10	150,000	Magnum
E1228539	6	-	-	62	20	821	441	B	52	12	180,000	Magnum
E1228540	7	-	-	60	24	1,094	585	C	40	12	210,000	Magnum
E1228541	10	-	-	71	24	1,180	710	C	44	15	300,000	Magnum
E1228542	15	-	-	72	30	1,965	1,160	D	44	25	450,000	Magnum