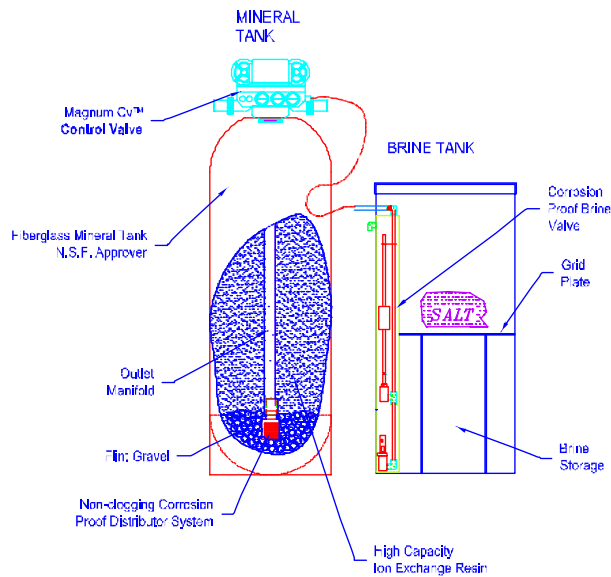


Bayou Series Water Softeners



FEATURES

MAGNUM IT™ - 1½ & 2" VALVE – TOP MOUNT

6-DAY TIMER

POLYGLASS MINERAL TANKS

ACCUMATIC™ BRINE SYSTEM.

RESIN POLYSTYRENE 8% DVB CL

SINGLE POINT ABS DISTRIBUTOR

OPERATING CONDITIONS

WATER PRESSURE 25 TO 100 PSI

COLD WATER OPERATION 100°F

MAXIMUM TEMPERATURE

BF SERIES APPLICATION TABLE							
Model¹	100	120	150	240	300	450	600
Mineral Tank	14x65	16x65	21x62	24x72	30x72	36x72	36x72
Resin Volume (ft ³)	3 ¼	4	5	8	10	15	20
Gravel (lbs)	40	55	140	200	250	300	300
Brine Tank	24x40	24x40	24x40	24x50	24x50	30x50	39x60
Salt Storage (lbs)	500	500	500	580	580	900	2,040
Brine Valve (in)	¾	¾	¾	¾	¾	½	½
Capacity (Kgr)	100	130	153	245	293	432	594
Salt per Regen (lbs)	66	66	66	106	106	145	244
Continuous Flow ² (gpm)	32	40	50	63	71	71	71
Peak Flow ³ (gpm)	48	60	75	87	93	95	94
Backwash Rate ⁴ (gpm)	5	6	10	15	25	35	35
Height ⁵ (in)	72	72	69	78	82	96	96
Depth (in)	24	24	24	24	30	36	36
Width (in)	44	46	51	54	60	72	72
Twin Width ⁶ (in)	64	68	78	84	96	114	114
Single Weight (lbs)	410	485	655	915	1085	1385	1645
Twin Weight ⁶ (lbs)	680	820	1160	1355	2090	2600	2825

BF Series Specification

Mineral Tank. The mineral tank shall be "polyglass (14" thru 16" Ø) or composite (21" thru 36" Ø) consisting of an inner shell of virgin polyethylene and an external shell of continuous fiberglass roving. Tanks shall be rated at 150 psi operating pressure, 120°F operating temperature (polyglass), 150°F operating temperature (composite) with 4"-8 UN threaded top opening.

Internals. The distributor shall be a 2½" Ø single point molded distributor head with 2½" of slotted length and a 1 ½" female socket welded connection. The slots shall be 0.012" - 0.016" wide to retain mineral and the total slot area shall be equal to or larger than the unit pipe size. The distributor pipe shall be 1 ½" schedule 40 white PVC.

Media. The resin shall be sodium form polystyrene 8% divinyl benzene cross linked resin with clear spherical beads. Resin beads shall be 16-50 US Standard Mesh with a particle size range of 0.3 to 1.2 mm. The resin shall be clean and packaged in sealed plastic bags weighing 55 lbs or less.

Underbedding. The bottom of this mineral tank shall be filled above the distributor with #20 graded washed flint gravel sieved between 1/8" and 1/16".

Brine System. The brine system shall be of the Accumatic™ high grid plate design. The brine tank shall be blow molded or rotationally molded HDPE, including a cover. The system shall include a float operated brine valve to control refill shut-off and refill flow rate.

Control Valve. The main control valve(s) shall be the Magnum IT™ controlled by a time clock to actuate the cycles of backwash, brine, slow rinse, fast rinse, and service. The control valve(s) shall be Magnum IT™ 5-Cycle, 100 psi, multi-port control valve(s) with glass filled Noryl-NSF listed material, camshaft, drive motor assembly, and NEMA 3 enclosure (115VAC/60Hz). The valve shall have an internal 2" TW flow meter when TA option is requested. The valve shall be of a single camshaft design and not use multiple plungers or diaphragm valves. Hard water by-pass shall be available during all regeneration cycles. The drain line connection shall be ¾" NPT, female.

Operating Conditions. Working pressure shall be 25 to 100 psi. Water temperature shall be 35 to 100°F (120°F Ambient).

NOTES:

1. Capacities are based on softening 20 grains per gallon at intermittent flow rates and are 95% of laboratory results.
2. Continuous flow rates are based on 10 gpm per cubic foot of mineral, or a 15 psi pressure drop, whichever is less.
3. Peak flow rates are based on 15 gpm per cubic foot of mineral, or a 25 psi pressure drop, whichever is less.
4. Drains must be able to dispose of water at the listed rate for up to 20 minutes.
5. Dimensions listed are actual unit height. At least one additional foot should be allowed for loading mineral tanks.
6. A twin unit includes two mineral tanks and one brine tank.
7. Flow rates are based on the Magnum IT™ valve with the hard water bypass at a water temperature of 68° F.