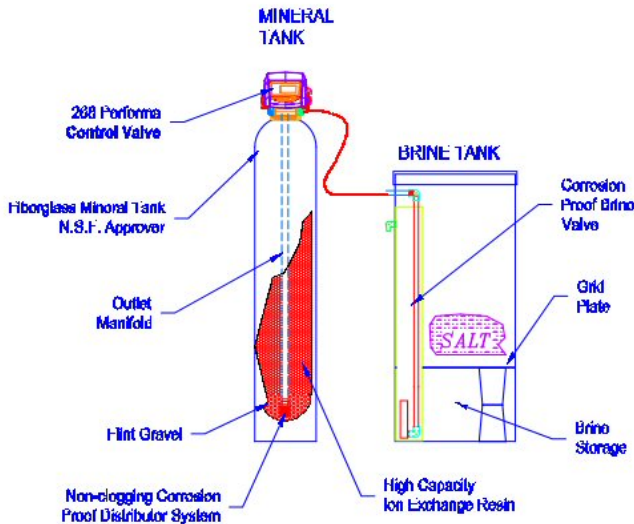


# Bayou Series Light Commercial Water Softeners



## STANDARD FEATURES

- 3/4" AND 1" VALVE - Performa™
- TOP MOUNT
- ERCt ELECTRONIC TIMER
- POLYGLASS MINERAL TANKS
- ACCUMATIC™ BRINE SYSTEM.
- RESIN POLYSTYRENE 8% DVB CL
- SINGLE POINT ABS DISTRIBUTOR

## OPTIONAL FEATURES

- ERCd ELECTRONIC DEMAND CONTROLLER
- COPPER TUBE CONNECTION

## OPERATING CONDITIONS

- WATER PRESSURE 20 TO 120 PSI
- COLD WATER OPERATION 100°F MAXIMUM TEMPERATURE

<b>BF SERIES APPLICATION TABLE</b>			
Model <sup>1</sup>	<b>30</b>	<b>50</b>	<b>70</b>
Part Number	930559	930561	930563
Mineral Tank	9x48	12x52	13x54
Resin Volume (ft <sup>3</sup> )	1	1 1/2	2 1/4
Gravel (lbs)	15	15	30
Brine Tank	18x40	18x40	18x40
Salt Storage (lbs)	320	320	320
Brine Valve (in)	3/8	3/8	3/8
Capacity (Kgr)	29	49	69
Salt per Regen (lbs)	29	29	29
Continuous Flow <sup>2</sup> (gpm)	10	15	23
Peak Flow <sup>3</sup> (gpm)	15	23	34
Backwash Rate <sup>4</sup> (gpm)	3	4	4
Height <sup>5</sup> (in)	62	60	62
Depth (in)	18	18	18
Width (in)	40	42	43
Weight (lbs)	220	245	340

## CAT221.2 BF Series Specification

**Mineral Tank.** The mineral tank shall be "polyglass" 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 with 2½"-8 UN threaded top opening.

**Internals.** The distributor shall be a 2½" Ø single point molded distributor head with 1½" of slotted length and a ¾" 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 ¾" 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 prevent overflow during refill. Brine draw is to be timer controlled by the ERCt or ERCd controllers.

**Control Valve.** The main control valve(s) shall be the Performa™ controlled with electronic controller to actuate the cycles of backwash, brine, slow rinse, fast rinse, and service. The control valve(s) shall be Performa™ 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 be of a single camshaft design and not use multiple plungers or diaphragm valves. Hard water bypass shall be available during all regeneration cycles. The drain line connection shall be ¾" NPT, female.

**Controller.** The ERCt shall be 7-day or up to 99-day regeneration frequency. Both the ERCt and ERCd Controllers shall have a calculated brine time when salt and resin quantities are entered.

**Demand Regeneration.** (optional) The BF series can be demand regenerated by using the ERCd Controller and the internal 1" TM meter. The ERCd Controller (optional) shall be a 28-day variable reserve.

**Operating Conditions.** Maximum temperature shall be 100°F. Pressure shall be 25 to 120 psi.

### NOTES ON APPLICATION TABLE:

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. Flow rates are based on the Performa™ Series valve with the hard water bypass at a water temperature of 60° F.

### NOTES ON PART NUMBERS:

#### ADD

- "-5" for metered or demand regenerated system
- "-T" for twin system
- "-11" for twin alternating
- "-11A" for twin alternating skid mounted
- "-TP" for twin parallel

Example: For a metered BF-50 simplex order 930561-5.