

## Pretreatment - Water Softeners

### TAFS Series, 2" Water Softening Systems

The Biolab TAFS 2" Series Water Softening Systems are designed to remove calcium and magnesium ions from incoming water and replace them with soft sodium ions.

Our complete system series features the Magnum IT™ Softener Valve with standard controller for simple operation and efficient regeneration.

### Operating Parameters

- Pressure: 20-100 psi (138 - 690 KPA)
- Temperature: 33-120° F (2-38° C)
- Electrical: 115/60Hz, single phase
- Inlet/Outlet: 2.0 inch
- Drain: 1.5 inch

### Materials of Construction

- Media Tank: FRP - HDPE lined
- Control Valve: Glass filled Noryl®
- Media: Virgin cation resin
- Distributor Piping: PVC
- Brine Tank: Polyethylene

### Standard Features

- Fully automatic regeneration
- 150,000 to 600,000 grains hardness removal
- Single unit flow rates up to 75 USgpm
- Parallel flow rates up to 150 USgpm
- Durable, high quality exchange cation resin
- Non-corroding fiberglass tank
- Valve constructed of plastic materials
- Standard reliable electronic timer
- Tank for brine making & salt storage



### Options Available

- Single, duplex twin alternating or parallel configs
- Free standing or skid-mounted systems
- Factory, fully pre-plumbed & pre-wired systems
- Custom installations and valve nests to meet facility requirements

### Typical Applications

- Reverse osmosis system pretreatment
- Boiler feedwater
- Reagent grade lab water systems
- USP purified water systems
- Hemodialysis & Life Sciences water systems
- Commercial & Industrial water systems
- Food and Beverage Industry

## TAFS Series 2" Water Softeners @ 25°C

Model Number	Capacity Maximum (Kgr)	Flow Design (USgpm)	Resin Volume (Ft.³)	Backwash Flow (USgpm)	Pressure Drop @ Peek (psig)	Salt Per Regen (Lbs.)	Brine Capacity (Lbs.)	Media Tank W x H (In.)	Brine Tank W x H (In.)	Shipping Weight (Lbs.)	Space Required WxDxH
TAFS-150M	150	5 - 25	5	9	5	50	700	18x65	24x40	565	42x24x84
TAFS-210M	210	7 - 35	7	12	10	70	700	21x62	24x40	625	45x24x84
TAFS-300M	300	10 - 50	10	15	15	100	1200	24x72	30x48	870	54x30x89
TAFS-450M	450	15 - 75	15	25	20	150	1200	30x72	30x48	1490	60x30x89
TAFS-600M	600	20 - 75	20	35	30	200	1200	36x72	30x48	1880	66x30x89

Note: All weights and dimensions are approximate.

### Installation Considerations

- For proper serviceability, it is recommended that there be 18" of space around the entire system. A minimum of 12" is required. The tanks should be installed on a firm, level surface.
- 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.
- A drain with suitable capability for the backwash flow rate of the tanks is required.
- Isolation valves, pressure gauges, sample ports, a vacuum breaker and a relief valve should be installed on each assembly.

### For More Information

Contact one of our application specialists at USA (800) 346-0365 or Canada (800) 268-5035, or visit [www.mcpur.com](http://www.mcpur.com)

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