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REV 09/09



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**Media**

## Water Testing



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## PROFESSIONAL SERIES

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 5600 FLECK VALVES

## SPECIFICATIONS BY MODEL NUMBER

	B16	B24	B32	B48	B64
MAXIMUM CAPACITY (GRAINS PER RECHARGE)	15,000	22,500	30,000	45,000	60,000
MINIMUM CAPACITY (GRAINS PER RECHARGE)	10,000	15,000	20,000	30,000	40,000
SALT REQUIRED PER MAX. RECHARGE (LBS)	7.5	13	15	22.5	30
SALT REQUIRED PER MIN. RECHARGE (LBS) <sup>1</sup>	3	5	6	9	12
MINERAL TANK SIZE - FIBERGLASS (INCHES)	8 x 35	8 x 44	9 x 48	10 x 54	12 x 52
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 33	18 x 33	18 x 33
SALT STORAGE (CAPACITY LBS)	375	375	375	375	375
SERVICE FLOW (GPM) C/P <sup>2</sup>	4 / 6	7 / 10	8 / 11	8.8 / 12	10 / 15
BACKWASH FLOW RATE (GPM) W/ TURBULATOR	2.4	2.4	3	4	5
BACKWASH FLOW RATE (GPM) W/O TURBULATOR	1.5	1.5	2	2.4	4
I.P.S. PIPE SIZE (INCHES) <sup>3</sup>	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
MAXIMUM HEIGHT (INCHES) <sup>4</sup>	44	52	56	62	60
FLOOR SPACE REQUIRED (INCHES)	18 x 31	18 x 33	18 x 32	18 x 33	18 x 35
TYPE OF MINERAL	Premium Purolite C100E Resin certified to NSF/ANSI-61 standards				

## NOTES

<sup>1</sup>Capacity ratings listed are based on salt dosage of 15 lbs per cubic foot for maximum and 6 lbs per cubic foot for minimum. All units are shipped from factory set at minimum capacity and minimum salt usage to afford a 40% salt savings. Use the minimum capacity when sizing the installation to gain salt-saving advantage.

<sup>2</sup>C = Continuous, P = Peak

<sup>3</sup>Depends on model selected

<sup>4</sup>Allow additional headroom of 7.5 inches to remove valve cover for all models

*Misc. notes:*

Pressure drop at continuous flow rate listed is less than 15 PSI

Units will handle 1.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.

## PROFESSIONAL SERIES

- **PREMIUM GRADE RESIN SOFTENER SYSTEMS**
- **5600 FLECK VALVES**
- **AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR**
- **GOLD SEAL CERTIFIED NSF/ANSI-44 WQA S-100**



### 5600 CONTROL VALVE FEATURES

- Injector/drain modules containing the brine valve, flow controls, and injector are removable from the valve's exterior
- Ruggedly built timer is designed with heavy-duty 3/8" wide plastic gears
- Non-corrosive, UV-resistant Noryl® valve body
- Economical — small annual power consumption; keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve
- Meter Range 125 - 2,125 gallons

### NOTES

A production model of the above listed line of water softeners was tested at the Water Quality Association laboratory and was found to have met the standards for removal of hardness and reduction of specific contaminants. In addition, the materials and components used in these certified water softeners have met the rigorous safety and structural integrity and strength requirements set by industry standard NSF/ANSI-44.

See Bulletin RP-S103-GS for complete details.

PART NUMBER	DESCRIPTION	WEIGHT
<b>5600 VALVE WITH 3/4" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BTS24TF</b>	Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BTS32TF</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BTS48TF</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BTS64TF</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600 VALVE WITH METER, 3/4" BYPASS, AND TURBULATOR</b>		
<b>BMS24TF</b>	Metered Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BMS32TF</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BMS48TF</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64TF</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600 VALVE WITH 1" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BTS24T1F</b>	Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BTS32T1F</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BTS48T1F</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BTS64T1F</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600 VALVE WITH METER, 1" BYPASS, AND TURBULATOR</b>		
<b>BMS24T1F</b>	Metered Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BMS32T1F</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BMS48T1F</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64T1F</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160



## PROFESSIONAL SERIES

- **PREMIUM GRADE RESIN SOFTENER SYSTEMS**
- **5600 FLECK VALVES**
- **AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR**

### 5600 CONTROL VALVE FEATURES

- Injector/drain modules containing the brine valve, flow controls, and injector are removable from the valve's exterior
- Ruggedly built timer is designed with heavy-duty 3/8" wide plastic gears
- Non-corrosive, UV-resistant Noryl® valve body
- Economical — small annual power consumption; keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

### STANDARD SYSTEM FEATURES

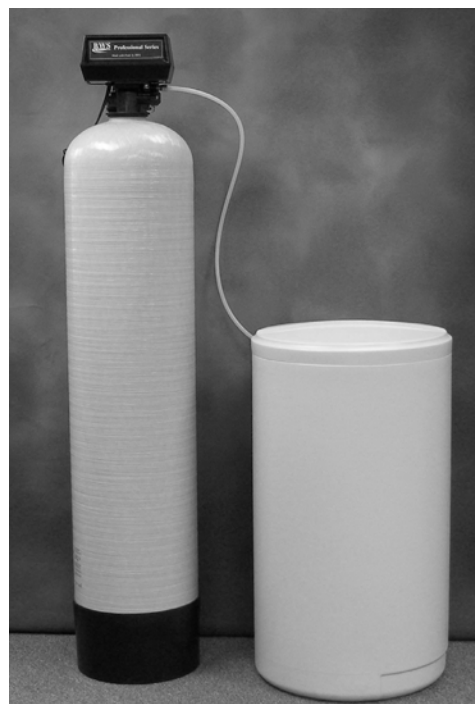
- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High flow distributor screen
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

All metered units are supplied with 3/4" standard range meters with appropriate people/hardness labels. Optional extended range meters available.

Standard Range Meter: 125 - 2,125 gallons  
Extended Range Meter: 625 - 10,625 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>5600 VALVE WITH 3/4" BYPASS AND 12-DAY TIMER</b>		
<b>BTS24F</b>	Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BTS32F</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BTS48F</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BTS64F</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600 VALVE WITH METER AND 3/4" BYPASS</b>		
<b>BMS24F</b>	Metered Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BMS32F</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BMS48F</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS64F</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600 VALVE WITH 1" BYPASS AND 12-DAY TIMER</b>		
<b>BTS241F</b>	Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BTS321F</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BTS481F</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BTS641F</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600 VALVE WITH METER AND 1" BYPASS</b>		
<b>BMS241F</b>	Metered Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BMS321F</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BMS481F</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS641F</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160



## PROFESSIONAL SERIES

- **PREMIUM GRADE RESIN SOFTENER SYSTEMS**
- **5600 FLECK VALVES**
- **ELECTRONIC AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR**

### 5600SXT ELECTRONIC CONTROL VALVE FEATURES

- Easy, user-friendly programming
- Large blue backlit LCD display
- 48-hour internal power backup capacitor
- True time-of-day in hours and minutes
- Volume of soft water remaining
- Regeneration steps and cycle time remaining
- Service and self-diagnostic indicator
- Quick and easy setup of capacity, regeneration time, and day override
- Advanced programming options including up to six independently adjustable cycle times
- Programming is stored in memory and time of day will not be lost due to power outages
- Electronic step-by-step regeneration
- Regeneration tonight and regenerate now option

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

Electronic Meter Range: 9,999 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>5600SXT VALVE WITH 3/4" BYPASS, TURBULATOR, AND 1-99 DAY ELECTRONIC TIMER</b>		
<b>BES32TF</b>	Water Softener Electronic 9" x 48" Natural Poly Tank With Turbulator	110
<b>BES48TF</b>	Water Softener Electronic 10" x 54" Natural Poly Tank With Turbulator	130
<b>BES64TF</b>	Water Softener Electronic 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600SXT VALVE WITH 1" BYPASS, TURBULATOR, AND 1-99 DAY ELECTRONIC TIMER</b>		
<b>BES32T1F</b>	Water Softener Electronic 9" x 48" Natural Poly Tank With Turbulator	110
<b>BES48T1F</b>	Water Softener Electronic 10" x 54" Natural Poly Tank With Turbulator	130
<b>BES64T1F</b>	Water Softener Electronic 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600SXT VALVE WITH METER, 3/4" BYPASS, AND TURBULATOR</b>		
<b>BEMS32TF</b>	Water Softener Electronic 9" x 48" Natural Poly Tank With Turbulator	110
<b>BEMS48TF</b>	Water Softener Electronic 10" x 54" Natural Poly Tank With Turbulator	130
<b>BEMS64TF</b>	Water Softener Electronic 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600SXT VALVE WITH METER, 1" BYPASS, AND TURBULATOR</b>		
<b>BEMS32T1F</b>	Water Softener Electronic 9" x 48" Natural Poly Tank With Turbulator	110
<b>BEMS48T1F</b>	Water Softener Electronic 10" x 54" Natural Poly Tank With Turbulator	130
<b>BEMS64T1F</b>	Water Softener Electronic 12" x 52" Natural Poly Tank With Turbulator	160





## PROFESSIONAL SERIES

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 5600 FLECK VALVES
- ELEC. AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### 5600SXT ELECTRONIC CONTROL VALVE FEATURES

- Easy, user-friendly programming
- Large blue backlit LCD display
- 48-hour internal power backup capacitor
- True time-of-day in hours and minutes
- Volume of soft water remaining
- Regeneration steps and cycle time remaining
- Service and self-diagnostic indicator
- Quick and easy setup of capacity, regeneration time, and day override
- Advanced programming options including up to six independently adjustable cycle times
- Programming is stored in memory and time of day will not be lost due to power outages
- Electronic step-by-step regeneration
- Regeneration tonight and regenerate now option

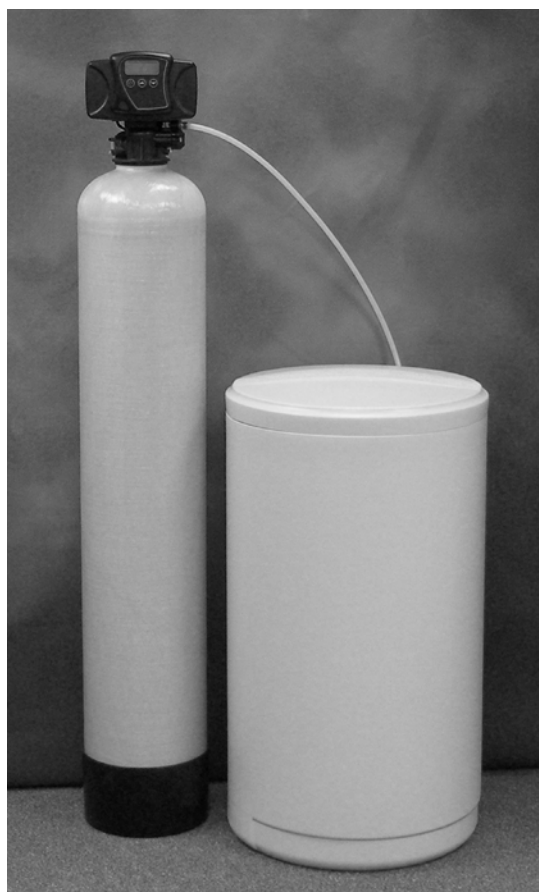
PART NUMBER	DESCRIPTION	WEIGHT
<b>5600SXT VALVE WITH 3/4" BYPASS AND 1-99 DAY ELECTRONIC TIMER</b>		
<b>BES32F</b>	Water Softener Electronic 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BES48F</b>	Water Softener Electronic 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BES64F</b>	Water Softener Electronic 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600SXT VALVE WITH 1" BYPASS AND 1-99 DAY ELECTRONIC TIMER</b>		
<b>BES321F</b>	Water Softener Electronic 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BES481F</b>	Water Softener Electronic 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BES641F</b>	Water Softener Electronic 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600SXT VALVE WITH METER AND 3/4" BYPASS</b>		
<b>BEMS32F</b>	Water Softener Electronic 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BEMS48F</b>	Water Softener Electronic 10" x 54" Natural Poly Tank Less Turbulator	130
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<b>5600SXT VALVE WITH METER AND 1" BYPASS</b>		
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### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High flow distributor screen
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

Electronic Meter Range: 9,999 gallons



## PROFESSIONAL SERIES

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 5600 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	B25	B34	B51	B68
MAXIMUM CAPACITY (GRAINS PER RECHARGE)	25,000	34,000	51,000	68,000
MINIMUM CAPACITY (GRAINS PER RECHARGE)	16,600	20,000	30,000	40,000
SALT REQUIRED PER MAX. RECHARGE (LBS)	13	15	22.5	30
SALT REQUIRED PER MIN. RECHARGE (LBS)	5	6	9	12
MINERAL TANK SIZE - FIBERGLASS (INCHES)	8 x 44	9 x 48	10 x 54	12 x 52
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 33	18 x 33
SALT STORAGE (CAPACITY LBS)	375	375	375	375
SERVICE FLOW (GPM) <sup>1</sup> C/P	4/6	8/11	9/12	10/15
BACKWASH FLOW RATE (GPM)	1.2	1.5	2.0	2.4
I.P.S. PIPE SIZE (INCHES) <sup>2</sup>	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
MAXIMUM HEIGHT (INCHES) <sup>3</sup>	52	56	62	60
FLOOR SPACE REQUIRED (INCHES)	18 x 30	18 x 32	18 x 33	18 x 35
TYPE OF MINERAL	Premium Purolite C100FM Resin <sup>4</sup>			

### NOTES

<sup>1</sup>C = Continuous, P = Peak

<sup>2</sup>Depends on bypass selected

<sup>3</sup>Allow additional headroom of 7.5 inches to remove valve cover for all models

<sup>4</sup>Purolite C100FM is produced and specially treated to meet the requirements of paragraph 173.25 of the Food Additive Regulations of the FDA and is certified to NSF/ANSI-61 standards

*Misc. notes:*

Pressure drop at flow rates listed is less than 15 PSI.

Units will handle 5.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.

## PROFESSIONAL SERIES

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 5600 FLECK VALVES
- AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR

### 5600 CONTROL VALVE FEATURES

- Injector/drain modules containing the brine valve, flow controls, and injector are removable from the valve's exterior
- Ruggedly built timer is designed with heavy-duty 3/8" wide plastic gears
- Non-corrosive, UV-resistant Noryl® valve body
- Economical — small annual power consumption; keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

### STANDARD SYSTEM FEATURES

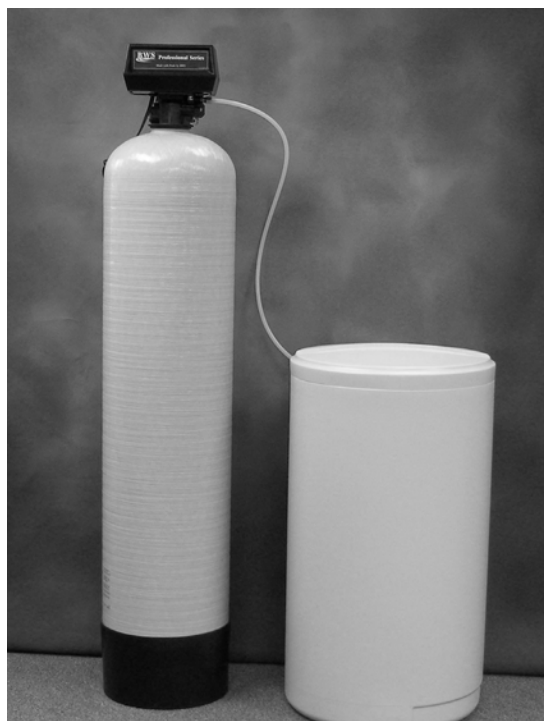
- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

All metered units are supplied with 3/4" standard range meters with appropriate people/hardness labels. Optional extended range meters available.

Standard Range Meter: 125 - 2,125 gallons  
Extended Range Meter: 625 - 10,625 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>5600 VALVE WITH 3/4" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BHT25TF</b>	Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BHT34TF</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHT51TF</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHT68TF</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600 VALVE WITH METER, 3/4" BYPASS, AND TURBULATOR</b>		
<b>BHM25TF</b>	Metered Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BHM34TF</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHM51TF</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHM68TF</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600 VALVE WITH 1" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BHT25T1F</b>	Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BHT34T1F</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHT51T1F</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHT68T1F</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600 VALVE WITH METER, 1" BYPASS, AND TURBULATOR</b>		
<b>BHM25T1F</b>	Metered Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BHM34T1F</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHM51T1F</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHM68T1F</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160



## PROFESSIONAL SERIES

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 5600 FLECK VALVES
- AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### 5600 CONTROL VALVE FEATURES

- Injector/drain modules containing the brine valve, flow controls, and injector are removable from the valve's exterior
- Ruggedly built timer is designed with heavy-duty 3/8" wide plastic gears
- Non-corrosive, UV-resistant Noryl® valve body
- Economical — small annual power consumption; keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

### STANDARD SYSTEM FEATURES

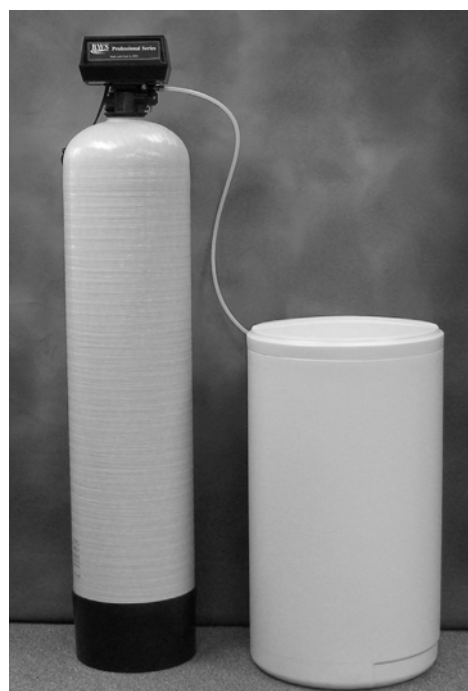
- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Upper distributor basket to prevent media loss
- High flow distributor screen
- Garnet underbed provides uniform backwash flow and minimizes resin channeling during service
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

All metered units are supplied with 3/4" standard range meters with appropriate people/hardness labels. Optional extended range meters available.

Standard Range Meter: 125 - 2,125 gallons  
Extended Range Meter: 625 - 10,625 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>5600 VALVE WITH 3/4" BYPASS AND 12-DAY TIMER</b>		
BHT25	Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
BHT34	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
BHT51	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
BHT68	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600 VALVE WITH METER AND 3/4" BYPASS</b>		
BHM25	Metered Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
BHM34	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
BHM51	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
BHM68	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600 VALVE WITH 1" BYPASS AND 12-DAY TIMER</b>		
BHT251	Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
BHT341	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
BHT511	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
BHT681	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600 VALVE WITH METER AND 1" BYPASS</b>		
BHM251	Metered Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
BHM341	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
BHM511	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
BHM681	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160



## PROFESSIONAL SERIES

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 5600 FLECK VALVES
- ELECTRONIC AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR

### 5600SXT ELECTRONIC CONTROL VALVE FEATURES

- Easy, user-friendly programming
- Large blue backlit LCD display
- 48-hour internal power backup capacitor
- True time-of-day in hours and minutes
- Volume of soft water remaining
- Regeneration steps and cycle time remaining
- Service and self-diagnostic indicator
- Quick and easy setup of capacity, regeneration time, and day override
- Advanced programming options including up to six independently adjustable cycle times
- Programming is stored in memory and time of day will not be lost due to power outages
- Electronic step-by-step regeneration
- Regeneration tonight and regenerate now option

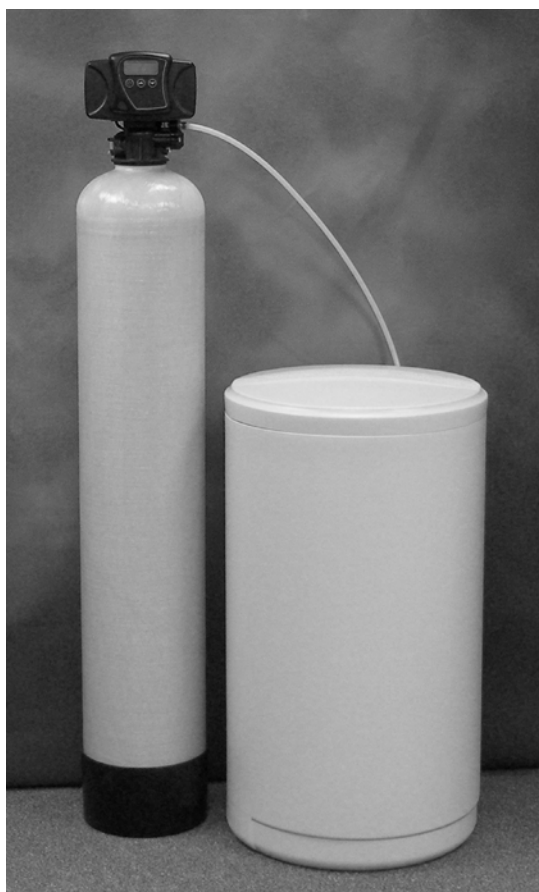
PART NUMBER	DESCRIPTION	WEIGHT
<b>5600SXT VALVE WITH 3/4" BYPASS, TURBULATOR, AND 1-99 DAY ELECTRONIC TIMER</b>		
BEHTS34TF	Water Softener Electronic 9" x 48" Natural Poly Tank With Turbulator	110
BEHTS51TF	Water Softener Electronic 10" x 54" Natural Poly Tank With Turbulator	130
BEHTS68TF	Water Softener Electronic 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600SXT VALVE WITH 1" BYPASS, TURBULATOR, AND 1-99 DAY ELECTRONIC TIMER</b>		
BEHTS34T1F	Water Softener Electronic 9" x 48" Natural Poly Tank With Turbulator	110
BEHTS51T1F	Water Softener Electronic 10" x 54" Natural Poly Tank With Turbulator	130
BEHTS68T1F	Water Softener Electronic 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600SXT VALVE WITH METER, 3/4" BYPASS, AND TURBULATOR</b>		
BEHMS34TF	Water Softener Electronic 9" x 48" Natural Poly Tank With Turbulator	110
BEHMS51TF	Water Softener Electronic 10" x 54" Natural Poly Tank With Turbulator	130
BEHMS68TF	Water Softener Electronic 12" x 52" Natural Poly Tank With Turbulator	160
<b>5600SXT VALVE WITH METER, 1" BYPASS, AND TURBULATOR</b>		
BEHMS34T1F	Water Softener Electronic 9" x 48" Natural Poly Tank With Turbulator	110
BEHMS51T1F	Water Softener Electronic 10" x 54" Natural Poly Tank With Turbulator	130
BEHMS68T1F	Water Softener Electronic 12" x 52" Natural Poly Tank With Turbulator	160

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

Electronic Meter Range: 9,999 gallons





## PROFESSIONAL SERIES

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 5600 FLECK VALVES
- ELEC. AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### 5600SXT ELECTRONIC CONTROL VALVE FEATURES

- Easy, user-friendly programming
- Large blue backlit LCD display
- 48-hour internal power backup capacitor
- True time-of-day in hours and minutes
- Volume of soft water remaining
- Regeneration steps and cycle time remaining
- Service and self-diagnostic indicator
- Quick and easy setup of capacity, regeneration time, and day override
- Advanced programming options including up to six independently adjustable cycle times
- Programming is stored in memory and time of day will not be lost due to power outages
- Electronic step-by-step regeneration
- Regeneration tonight and regenerate now option

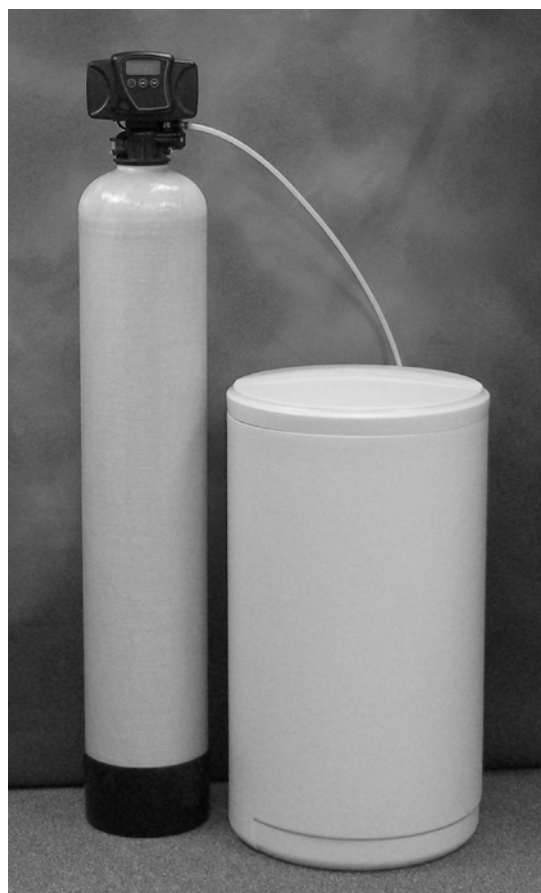
PART NUMBER	DESCRIPTION	WEIGHT
<b>5600SXT VALVE WITH 3/4" BYPASS</b>		
<b>BEHTS34F</b>	Water Softener Electronic 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BEHTS51F</b>	Water Softener Electronic 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BEHTS68F</b>	Water Softener Electronic 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600SXT VALVE WITH 1" BYPASS</b>		
<b>BEHTS341F</b>	Water Softener Electronic 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BEHTS511F</b>	Water Softener Electronic 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BEHTS681F</b>	Water Softener Electronic 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600SXT VALVE WITH METER AND 3/4" BYPASS</b>		
<b>BEHMS34F</b>	Water Softener Electronic 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BEHMS51F</b>	Water Softener Electronic 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BEHMS68F</b>	Water Softener Electronic 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600SXT VALVE WITH METER AND 1" BYPASS</b>		
<b>BEHMS341F</b>	Water Softener Electronic 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BEHMS511F</b>	Water Softener Electronic 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BEHMS681F</b>	Water Softener Electronic 12" x 52" Natural Poly Tank Less Turbulator	160

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Upper distributor basket to prevent media loss
- Garnet underbed provides uniform backwash flow and minimizes resin channeling during service
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

Electronic Meter Range: 9,999 gallons



## PROFESSIONAL SERIES

- NITRATE SELECTIVE SYSTEMS
- 5600 FLECK VALVES

## SPECIFICATIONS BY MODEL NUMBER

	B30	B45	B60
MAXIMUM IRON/MANGANESE/SULFUR/TANNINS/CHLORINE <sup>1</sup>	.1 / .1 / .1 / .5 / .5		
SALT REQUIRED PER MAX. RECHARGE (LBS) <sup>2</sup>	15	22.5	30
SALT REQUIRED PER MIN. RECHARGE (LBS) <sup>2</sup>	10	15	20
MINERAL TANK SIZE - FIBERGLASS (INCHES)	9 x 48	10 x 54	12 x 52
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 33
SALT STORAGE (CAPACITY LBS)	375	375	375
SERVICE FLOW (GPM)	5	7	9
BACKWASH FLOW RATE (GPM)	1.2	1.5	2.4
I.P.S. PIPE SIZE (INCHES) <sup>3</sup>	3/4 or 1	3/4 or 1	3/4 or 1
MAXIMUM HEIGHT (INCHES) <sup>4</sup>	56	62	60
FLOOR SPACE REQUIRED (INCHES)	18 x 32	18 x 33	18 x 35
TYPE OF MINERAL	Premium Purolite A520E Nitrate Selective Resin certified to NSF/ANSI-61 standards		

## NOTES

<sup>1</sup>It is important that these systems receive water virtually free from sediment and these constituents. Make certain that water is properly filtered and softened before these systems.

IMPORTANT: Each system should have an in-line flow control installed after the unit to control service flow rate.

<sup>2</sup>Capacity varies by unit and should be calculated

<sup>3</sup>Depends on control used

<sup>4</sup>Allow additional headroom of 7.5 inches to remove valve cover

*Misc. notes:*

Pressure drop at flow rates listed is less than 15 PSI.

Units will handle 1.0 PPM clearwater iron. Use iron filter on larger amounts.

Feedwater hardness should not exceed 10 GPG.

Regenerates with standard salt for nitrate reduction.

Unit will lower pH level of water.

TDS, application, and flow rates will influence the performance of the system.

## PROFESSIONAL SERIES

- **NITRATE SELECTIVE SYSTEMS**
- **5600 FLECK VALVES**
- **AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR**

NITRATE

### 5600 CONTROL VALVE FEATURES

- Injector/drain modules containing the brine valve, flow controls, and injector are removable from the valve's exterior
- Ruggedly built timer is designed with heavy-duty 3/8" wide plastic gears
- Non-corrosive, UV-resistant Noryl® valve body
- Economical — small annual power consumption; keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

### STANDARD SYSTEM FEATURES

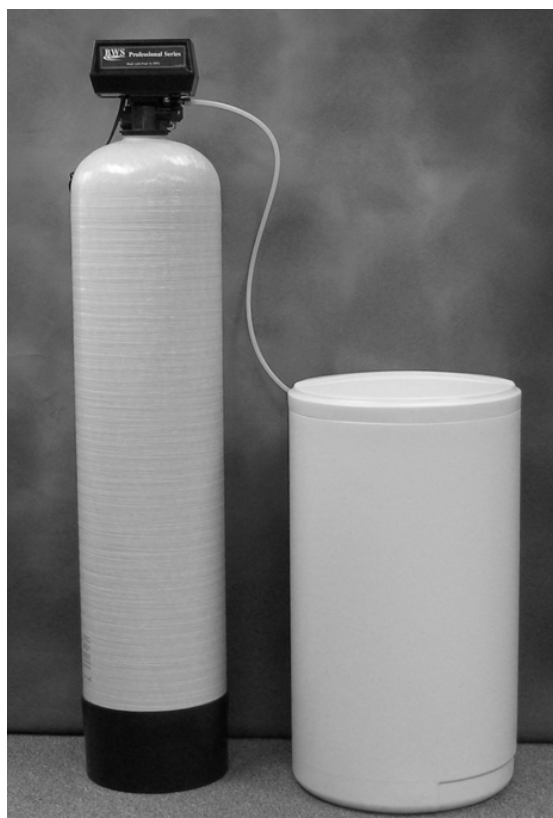
- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

All metered units are supplied with 3/4" standard range meters with appropriate people/hardness labels. Optional extended range meters available.

Standard Range Meter: 125 - 2,125 gallons  
Extended Range Meter: 625 - 10,625 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>5600 VALVE WITH 3/4" BYPASS AND 12-DAY TIMER</b>		
<b>BNT30</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BNT45</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BNT60</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600 VALVE WITH METER AND 3/4" BYPASS</b>		
<b>BNM30</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BNM45</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BNM60</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600 VALVE WITH 1" BYPASS AND 12-DAY TIMER</b>		
<b>BNT301</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BNT451</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BNT601</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600 VALVE WITH METER AND 1" BYPASS</b>		
<b>BNM301</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BNM451</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BNM601</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160



## PROFESSIONAL SERIES

- TANNIN SELECTIVE SYSTEMS
- 5600 FLECK VALVES

## SPECIFICATIONS BY MODEL NUMBER

	B10	B15	B20
MAXIMUM IRON/MANGANESE/SULFUR/CHLORINE <sup>1</sup>	.1 / .05 / .1 / .5		
SALT REQUIRED PER RECHARGE (LBS) <sup>2</sup>	10	15	20
MINERAL TANK SIZE - FIBERGLASS (INCHES)	9 x 48	10 x 54	12 x 52
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 33
SALT STORAGE (CAPACITY LBS)	375	375	375
SERVICE FLOW (GPM)	5	7	9
BACKWASH FLOW RATE (GPM)	1.2	1.5	2.4
I.P.S. PIPE SIZE (INCHES) <sup>3</sup>	3/4 or 1	3/4 or 1	3/4 or 1
MAXIMUM HEIGHT (INCHES) <sup>4</sup>	56	62	60
FLOOR SPACE REQUIRED (INCHES)	18 x 32	18 x 33	18 x 35
TYPE OF MINERAL	Premium Purolite A860 Tannin Selective Resin certified to NSF/ANSI-61 standards		

## NOTES

<sup>1</sup>It is important that these systems receive water virtually free from sediment and these constituents. Make certain that water is properly filtered and softened before these systems.

IMPORTANT: Each system should have an in-line flow control installed after the unit to control service flow rate.

<sup>2</sup>Capacity varies by unit and should be calculated

<sup>3</sup>Depends on control used

<sup>4</sup>Allow additional headroom of 7.5 inches to remove valve cover

*Misc. notes:*

Pressure drop at flow rates listed is less than 15 PSI.

Units will handle 1.0 PPM clearwater iron. Use iron filter on larger amounts.

Feedwater hardness should not exceed 10 GPG.

Regenerates with standard salt for tannin reduction.

Unit will lower pH level of water.

TDS, application, and flow rates will influence the performance of the system.

The resin is rated for tannin removal at 2000 PPM-gallons per cubic foot. To determine the gallon volume that can be had per cubic foot, divide the figure of 2000 by PPM of tannins in the water. If only a fraction of a cubic foot is used, then the water produced will be this fraction of the volume.

Avoid overrunning the resin as it is sometimes difficult to clean up. Regenerate as needed and on the conservative side. Never exceed three days without a regeneration. All standard available resin cleaners will help and not harm the tannin removal resins. Iron should first be removed from water where it exceeds 1 to 2 ppm. If iron is in excess of this, then use salt with a built-in resin cleaner.

## PROFESSIONAL SERIES

- **TANNIN SELECTIVE SYSTEMS**
- **5600 FLECK VALVES**
- **AUTOMATIC SYSTEMS WITH STANDARD DISTRIBUTOR**

TANNIN

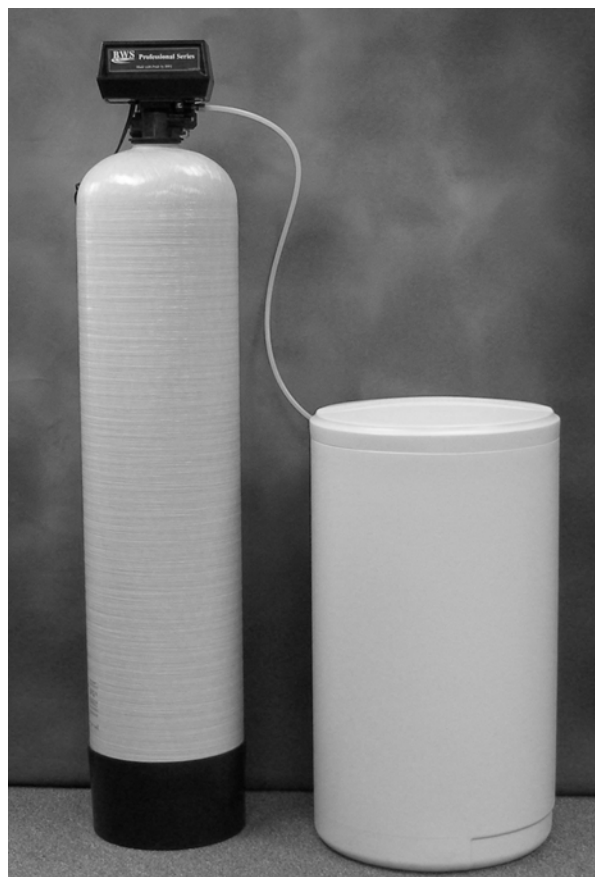
### 5600 CONTROL VALVE FEATURES

- Injector/drain modules containing the brine valve, flow controls, and injector are removable from the valve's exterior
- Ruggedly built timer is designed with heavy-duty 3/8" wide plastic gears
- Non-corrosive, UV-resistant Noryl® valve body
- Economical — small annual power consumption; keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

PART NUMBER	DESCRIPTION	WEIGHT
<b>5600 VALVE WITH 3/4" BYPASS AND 12-DAY TIMER</b>		
<b>BAT10P</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BAT15P</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BAT20P</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>5600 VALVE WITH 1" BYPASS AND 12-DAY TIMER</b>		
<b>BAT10P1</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BAT15P1</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BAT20P1</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve





## PROFESSIONAL SERIES

- TWIN DEMAND ALTERNATING SOFTENER SYSTEMS
- 9000 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	BTD48	BTD64	BTD96	BTD128
MAXIMUM CAPACITY (GRAINS PER RECHARGE/TANK)	25,000	30,000	45,000	60,000
MINIMUM CAPACITY (GRAINS PER RECHARGE/TANK)	16,600	20,000	30,000	40,000
SALT REQUIRED PER MAX. RECHARGE (LBS)	13	15	22.5	30
SALT REQUIRED PER MIN. RECHARGE (LBS) <sup>1</sup>	3	6	9	12
MINERAL TANK SIZE - FIBERGLASS (INCHES)	8 x 44	9 x 48	10 x 54	12 x 52
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 33	18 x 33
SALT STORAGE (CAPACITY LBS)	375	375	375	375
SERVICE FLOW (GPM) C/P <sup>2</sup>	7 / 10	8 / 11	9 / 12	10 / 15
BACKWASH FLOW RATE (GPM) W/O TURBULATOR	1.5	2	2.4	4
I.P.S. PIPE SIZE (INCHES) <sup>3</sup>	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
MAXIMUM HEIGHT (INCHES) <sup>4</sup>	52	56	62	60
FLOOR SPACE REQUIRED (INCHES)	18 x 40	18 x 42	18 x 44	18 x 48
TYPE OF MINERAL	Premium Purolite C100E Resin certified to NSF/ANSI-61 standards			

### NOTES

<sup>1</sup>Capacity ratings listed are based on salt dosage of 15 lbs per cubic foot for maximum and 6 lbs per cubic foot for minimum. All units are shipped from factory set at minimum capacity and minimum salt usage to afford a 40% salt savings. Use the minimum capacity when sizing the installation to gain salt-saving advantage.

<sup>2</sup>C = Continuous, P = Peak

<sup>3</sup>Depends on model selected

<sup>4</sup>Allow additional headroom of 7.5 inches to remove valve cover for all models

#### Misc. notes:

Pressure drop at continuous flow rate listed is less than 15 PSI

Units will handle 1.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.

## PROFESSIONAL SERIES

- TWIN DEMAND ALTERNATING SOFTENER SYSTEMS
- 9000 FLECK VALVES
- DEMAND SYSTEMS WITH TURBULATOR

### 9000 CONTROL VALVE FEATURES

- Salt and water savings by using 100% capacity of the tank in service, before switching to the second tank
- Regenerates immediately when needed for continuous soft water
- Regenerates with soft water and keeps system clean for optimum operating efficiency and minimum maintenance.
- Fully adjustable 5-cycle control delivers controlled upflow, backwash, downflow brining, slow rinse, rapid rinse, timed brine refill, and downflow service.
- All cycles easily adjustable; program just what's needed with "all cycle" variable time control

PART NUMBER	DESCRIPTION	WEIGHT
<b>9000 VALVE WITH METER, 3/4" BYPASS, AND TURBULATOR</b>		
<b>BTD48T</b>	Metered Water Softener 8" x 44" Natural Poly Tank With Turbulator	220
<b>BTD64T</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	230
<b>BTD96T</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	290
<b>BTD128T</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	400
<b>9000 VALVE WITH METER, 1" BYPASS, AND TURBULATOR</b>		
<b>BTD48T1</b>	Metered Water Softener 8" x 44" Natural Poly Tank With Turbulator	220
<b>BTD64T1</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	230
<b>BTD96T1</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	290
<b>BTD128T1</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	400

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve



## PROFESSIONAL SERIES

- TWIN DEMAND ALTERNATING SOFTENER SYSTEMS
- 9000 FLECK VALVES
- DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### 9000 CONTROL VALVE FEATURES

- Salt and water savings by using 100% capacity of the tank in service, before switching to the second tank
- Regenerates immediately when needed for continuous soft water
- Regenerates with soft water and keeps system clean for optimum operating efficiency and minimum maintenance.
- Fully adjustable 5-cycle control delivers controlled upflow, backwash, downflow brining, slow rinse, rapid rinse, timed brine refill, and downflow service.
- All cycles easily adjustable; program just what's needed with "all cycle" variable time control

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

PART NUMBER	DESCRIPTION	WEIGHT
<b>9000 VALVE WITH METER AND 3/4" BYPASS</b>		
<b>BTD48</b>	Metered Water Softener 8" x 44" Natural Poly Tank Less Turbulator	220
<b>BTD64</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	230
<b>BTD96</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	290
<b>BTD128</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	400
<b>9000 VALVE WITH METER AND 1" BYPASS</b>		
<b>BTD481</b>	Metered Water Softener 8" x 44" Natural Poly Tank Less Turbulator	220
<b>BTD641</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	230
<b>BTD961</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	290
<b>BTD1281</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	400



## PROFESSIONAL SERIES

- CABINET STYLE SOFTENER SYSTEMS
- 5600 FLECK VALVES

### 5600 CONTROL VALVE FEATURES

- Injector/drain modules containing the brine valve, flow controls, and injector are removable from the valve's exterior
- Ruggedly built timer is designed with heavy-duty 3/8" wide plastic gears
- Non-corrosive, UV-resistant Noryl® valve body
- Economical — small annual power consumption; keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

### NOTES

Space required (W x D x H) = 14" x 20" x 44"

PART NUMBER	DESCRIPTION	WEIGHT
<b>CABINET SOFTENER WITH 3/4" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BTSC24TF</b>	Cabinet Softener 8" x 35" Natural Poly Tank With Turbulator	68
<b>BTSC32TF</b>	Cabinet Softener 10" x 35" Natural Poly Tank With Turbulator	83
<b>CABINET SOFTENER WITH 1" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BTSC24T1F</b>	Cabinet Softener 8" x 35" Natural Poly Tank With Turbulator	68
<b>BTSC32T1F</b>	Cabinet Softener 10" x 35" Natural Poly Tank With Turbulator	83
<b>CABINET SOFTENER WITH METER, 3/4" BYPASS, AND TURBULATOR</b>		
<b>BMSC24TF</b>	Cabinet Softener 8" x 35" Natural Poly Tank With Turbulator	68
<b>BMSC32TF</b>	Cabinet Softener 10" x 35" Natural Poly Tank With Turbulator	83
<b>CABINET SOFTENER WITH METER, 1" BYPASS, AND TURBULATOR</b>		
<b>BMSC24T1F</b>	Cabinet Softener 8" x 35" Natural Poly Tank With Turbulator	68
<b>BMSC32T1F</b>	Cabinet Softener 10" x 35" Natural Poly Tank With Turbulator	83



## PROFESSIONAL HIGH FLOW SERIES

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 7000 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	B32	B48	B64	B80	B96	B120
MAXIMUM CAPACITY (GRAINS PER RECHARGE)	30,000	45,000	60,000	75,000	90,000	120,000
MINIMUM CAPACITY (GRAINS PER RECHARGE)	20,000	30,000	40,000	50,000	60,000	80,000
SALT REQUIRED PER MAX. RECHARGE (LBS)	15	22.5	30	37.5	45	60
SALT REQUIRED PER MIN. RECHARGE (LBS) <sup>1</sup>	6	9	12	15	18	24
MINERAL TANK SIZE - FIBERGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 40	18 x 40	24 x 41	24 x 41
SALT STORAGE (CAPACITY LBS)	375	375	400	400	700	700
SERVICE FLOW (GPM) C/P <sup>2</sup>	8 / 11	9 / 12	12 / 16	14 / 18	16 / 21	21 / 28
BACKWASH FLOW RATE (GPM)	2	2.4	4	5	6	7
I.P.S. PIPE SIZE (INCHES)	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
MAXIMUM HEIGHT (INCHES)	56	62	56	60	72	72
FLOOR SPACE REQUIRED (INCHES)	18 x 32	18 x 33	18 x 35	24 x 53	24 x 44	24 x 46
TYPE OF MINERAL	Premium Purolite C100E Resin certified to NSF/ANSI-61 standards					

### NOTES

<sup>1</sup>Capacity ratings listed are based on salt dosage of 15 lbs per cubic foot for maximum and 6 lbs per cubic foot for minimum. All units are shipped from factory set at minimum capacity and minimum salt usage to afford a 40% salt savings. Use the minimum capacity when sizing the installation to gain salt-saving advantage.

<sup>2</sup>C = Continuous, P = Peak

#### Misc. notes:

Pressure drop at continuous flow rate listed is less than 15 PSI

Units will handle 1.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.



## PROFESSIONAL HIGH FLOW SERIES

- **PREMIUM GRADE RESIN SOFTENER SYSTEMS**
- **7000 FLECK VALVES**
- **DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR**

### 7000 CONTROL VALVE FEATURES

- Reliable optical electronics eliminate micro-switch positioning
- Electronic timer provides quick setup and programming
- Quick-connect clips allow easy installation and maintenance
- High flow bypass valve
- High flow distribution system
- Soft water brine refill
- Variable reserve
- Metered with regeneration day override
- Manual operation
- Double backwash
- Environmental cover (NEMA-3R rated)
- Auxiliary switch
- Fill first (dry salt storage)

PART NUMBER	DESCRIPTION	WEIGHT
<b>7000 VALVE WITH METER, BYPASS, AND 1 1/4" PIPE ADAPTERS</b>		
<b>BMS32F70</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BMS48F70</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS64F70</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BMS80F70</b>	Metered Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BMS96F70</b>	Metered Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BMS120F70</b>	Metered Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1 1/4" high flow distributor
- High flow distributor screen
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass isolation valve with 1 1/4" MNPT pipe adapters



### NOTES

Electronic Meter Range: 1 - 74,750 gallons

## PROFESSIONAL HIGH FLOW SERIES

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 7000 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	B34	B51	B68	B85	B102	B136
MAXIMUM CAPACITY (GRAINS PER RECHARGE)	34,000	51,000	68,000	85,000	102,000	136,000
MINIMUM CAPACITY (GRAINS PER RECHARGE)	20,000	30,000	40,000	50,000	60,000	80,000
SALT REQUIRED PER MAX. RECHARGE (LBS)	15	22.5	30	37.5	45	60
SALT REQUIRED PER MIN. RECHARGE (LBS)	6	9	12	15	18	24
MINERAL TANK SIZE - FIBERGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 40	18 x 40	24 x 41	24 x 41
SALT STORAGE (CAPACITY LBS)	375	375	400	400	700	700
SERVICE FLOW (GPM) C/P <sup>1</sup>	8 / 11	9 / 12	12 / 16	14 / 18	16 / 21	21 / 28
BACKWASH FLOW RATE (GPM)	1.2	1.5	2.4	3	3	4
I.P.S. PIPE SIZE (INCHES)	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
MAXIMUM HEIGHT (INCHES)	56	62	60	62	73	73
FLOOR SPACE REQUIRED (INCHES)	18 x 32	18 x 33	18 x 35	18 x 36	24 x 44	24 x 46
TYPE OF MINERAL	Premium Purolite C100FM Resin <sup>2</sup>					

### NOTES

<sup>1</sup>C = Continuous, P = Peak

<sup>2</sup>Purolite C100FM is produced and specially treated to meet the requirements of paragraph 173.25 of the Food Additive Regulations of the FDA and is certified to NSF/ANSI-61 standards

*Misc. notes:*

Pressure drop at flow rates listed is less than 15 PSI.

Units will handle 5.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.

## PROFESSIONAL HIGH FLOW SERIES

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 7000 FLECK VALVES
- DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### 7000 CONTROL VALVE FEATURES

- Reliable optical electronics eliminate micro-switch positioning
- Electronic timer provides quick setup and programming
- Quick-connect clips allow easy installation and maintenance
- High flow bypass valve
- High flow distribution system
- Soft water brine refill
- Variable reserve
- Metered with regeneration day override
- Manual operation
- Double backwash
- Environmental cover (NEMA-3R rated)
- Auxiliary switch
- Fill first (dry salt storage)

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1 1/4" distributor tube minimizes pressure loss
- Upper basket to prevent media loss
- High flow distributor screen
- Garnet underbed provides uniform backwash flow and minimizes resin channeling during service
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass isolation valve with 1 1/4" MNPT pipe adapters

PART NUMBER	DESCRIPTION	WEIGHT
<b>7000 VALVE WITH METER, BYPASS, AND 1 1/4" PIPE ADAPTERS</b>		
<b>BHM34F70</b>	Metered Water Softener 9" x 48" Natural Poly Tank	110
<b>BHM51F70</b>	Metered Water Softener 10" x 54" Natural Poly Tank	130
<b>BHM68F70</b>	Metered Water Softener 12" x 52" Natural Poly Tank	160
<b>BHM85F70</b>	Metered Water Softener 13" x 54" Natural Poly Tank	190
<b>BHM102F70</b>	Metered Water Softener 14" x 65" Natural Poly Tank	235
<b>BHM136F70</b>	Metered Water Softener 16" x 65" Natural Poly Tank	290



### NOTES

Electronic Meter Range: 1 - 74,750 gallons

## PROFESSIONAL SERIES II

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 2510 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	B32	B48	B64	B80	B96	B120
MAXIMUM CAPACITY (GRAINS PER RECHARGE)	30,000	45,000	60,000	75,000	90,000	120,000
MINIMUM CAPACITY (GRAINS PER RECHARGE)	20,000	30,000	40,000	50,000	60,000	80,000
SALT REQUIRED PER MAX. RECHARGE (LBS)	15	22.5	30	37.5	45	60
SALT REQUIRED PER MIN. RECHARGE (LBS) <sup>1</sup>	6	9	12	15	18	24
MINERAL TANK SIZE - FIBERGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 40	18 x 40	24 x 41	24 x 41
SALT STORAGE (CAPACITY LBS)	375	375	400	400	700	700
SERVICE FLOW (GPM) C/P <sup>2</sup>	8 / 11	9 / 12	10 / 15	13 / 18	15 / 23	20 / 24
BACKWASH FLOW RATE (GPM) W/ TURBULATOR	3	4	5	N/A	N/A	N/A
BACKWASH FLOW RATE (GPM) W/O TURBULATOR	2	2.4	4	5	6	7
I.P.S. PIPE SIZE (INCHES) <sup>3</sup>	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
MAXIMUM HEIGHT (INCHES)	56	62	56	60	72	72
FLOOR SPACE REQUIRED (INCHES)	18 x 32	18 x 33	18 x 35	24 x 53	24 x 44	24 x 46
TYPE OF MINERAL	Premium Purolite C100E Resin certified to NSF/ANSI-61 standards					

### NOTES

<sup>1</sup>Capacity ratings listed are based on salt dosage of 15 lbs per cubic foot for maximum and 6 lbs per cubic foot for minimum. All units are shipped from factory set at minimum capacity and minimum salt usage to afford a 40% salt savings. Use the minimum capacity when sizing the installation to gain salt-saving advantage.

<sup>2</sup>C = Continuous, P = Peak

<sup>3</sup>Depends on model selected

#### Misc. notes:

Pressure drop at continuous flow rate listed is less than 15 PSI

Units will handle 1.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.

## PROFESSIONAL SERIES II

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 2510 FLECK VALVES
- AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR

### 2510 CONTROL VALVE FEATURES

- Fully adjustable 5-cycle top-mount control delivers controlled upflow backwash, downflow brining, and slow rinse, rapid rinse, brine refill, and downflow service
- Time-tested hydraulically balanced piston, seal, and spacer concept to control service flow and regeneration
- Non-corrosive, UV-resistant Noryl® construction
- Excellent flow rates: 19 gpm continuous, 24 gpm peak
- Backwash capacity handles tanks up to 16" diameter for softener applications, 16" diameter for filter applications
- Environmental cover

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

All metered units are supplied with 3/4" standard range meters. Optional extended range meters available.

Standard Range Meter: 125 - 2,125 gallons  
Extended Range Meter: 625 - 10,625 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>2510 VALVE WITH 3/4" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BTS32TF25</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BTS48TF25</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BTS64TF25</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH METER, 3/4" BYPASS, AND TURBULATOR</b>		
<b>BMS32TF25</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BMS48TF25</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64TF25</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH 1" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BTS32T1F25</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BTS48T1F25</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BTS64T1F25</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH METER, 1" BYPASS, AND TURBULATOR</b>		
<b>BMS32T1F25</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BMS48T1F25</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64T1F25</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160



## PROFESSIONAL SERIES II

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 2510 FLECK VALVES
- AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### 2510 CONTROL VALVE FEATURES

- Fully adjustable 5-cycle top-mount control delivers controlled upflow backwash, downflow brining, and slow rinse, rapid rinse, brine refill, and downflow service
- Time-tested hydraulically balanced piston, seal, and spacer concept to control service flow and regeneration
- Non-corrosive, UV-resistant Noryl® construction
- Excellent flow rates: 19 gpm continuous, 24 gpm peak
- Backwash capacity handles tanks up to 16" diameter for softener applications, 16" diameter for filter applications
- Environmental cover

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High flow distributor screen
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

BMS32, 48, and 64 units are supplied with 3/4" standard range meters

BMS80, 96, and 120 units are supplied with 3/4" extended range meters

Standard Range Meter: 125 - 2,125 gallons  
Extended Range Meter: 625 - 10,625 gallons

All units are available with 1" bypass valve connection. To order, insert "1" in last digits of part number. Example BMS801F25

PART NUMBER	DESCRIPTION	WEIGHT
<b>2510 VALVE WITH 3/4" BYPASS AND 12-DAY TIMER</b>		
<b>BTS32F25</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BTS48F25</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BTS64F25</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BTS80F25</b>	Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BTS96F25</b>	Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BTS120F25</b>	Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>2510 VALVE WITH METER AND 3/4" BYPASS</b>		
<b>BMS32F25</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BMS48F25</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS64F25</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BMS80F25</b>	Metered Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BMS96F25</b>	Metered Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BMS120F25</b>	Metered Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290





## PROFESSIONAL SERIES II

- **PREMIUM GRADE RESIN SOFTENER SYSTEMS**
- **2510 FLECK VALVES**
- **ELECTRONIC AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR**

### 2510SXT ELECTRONIC CONTROL VALVE FEATURES

- Easy, user-friendly programming
- Large blue backlit LCD display
- 48-hour internal power backup capacitor
- True time-of-day in hours and minutes
- Volume of soft water remaining
- Regeneration steps and cycle time remaining
- Service and self-diagnostic indicator
- Quick and easy setup of capacity, regeneration time, and day override
- Advanced programming options including up to six independently adjustable cycle times
- Programming is stored in memory and time of day will not be lost due to power outages
- Electronic step-by-step regeneration
- Regeneration tonight and regenerate now option

PART NUMBER	DESCRIPTION	WEIGHT
<b>2510 VALVE WITH 3/4" BYPASS, TURBULATOR, AND 1-99 DAY TIMER</b>		
<b>BES32TF25</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BES48TF25</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BES64TF25</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH METER, 3/4" BYPASS, AND TURBULATOR</b>		
<b>BEMS32TF25</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BEMS48TF25</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BEMS64TF25</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH 1" BYPASS, TURBULATOR, AND 1-99 DAY TIMER</b>		
<b>BES32T1F25</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BES48T1F25</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BES64T1F25</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH METER, 1" BYPASS, AND TURBULATOR</b>		
<b>BEMS32T1F25</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BEMS48T1F25</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BEMS64T1F25</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

Electronic Meter Range: 9,999 gallons



## PROFESSIONAL SERIES II

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 2510 FLECK VALVES
- ELEC. AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### 2510SXT ELECTRONIC CONTROL VALVE FEATURES

- Easy, user-friendly programming
- Large blue backlit LCD display
- 48-hour internal power backup capacitor
- True time-of-day in hours and minutes
- Volume of soft water remaining
- Regeneration steps and cycle time remaining
- Service and self-diagnostic indicator
- Quick and easy setup of capacity, regeneration time, and day override
- Advanced programming options including up to six independently adjustable cycle times
- Programming is stored in memory and will not be lost due to power outages
- Electronic step-by-step regeneration
- Regeneration tonight and regenerate now option

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High flow distributor screen
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

Electronic Meter Range: 9,999 gallons

All units are available with 1" bypass valve connection. To order, insert "1" in last digits of part number. Example BEMS321F25

PART NUMBER	DESCRIPTION	WEIGHT
<b>2510 VALVE WITH 3/4" BYPASS AND 1-99 DAY TIMER</b>		
<b>BES32F25</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BES48F25</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BES64F25</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BES80F25</b>	Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BES96F25</b>	Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BES120F25</b>	Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>2510 VALVE WITH METER AND 3/4" BYPASS</b>		
<b>BEMS32F25</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BEMS48TF25</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BEMS64F25</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BEMS80F25</b>	Metered Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BEMS96F25</b>	Metered Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BEMS120F25</b>	Metered Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290



## PROFESSIONAL SERIES II

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 2510 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	B34	B51	B68	B85	B102	B136
MAXIMUM CAPACITY (GRAINS PER RECHARGE)	34,000	51,000	68,000	85,000	102,000	136,000
MINIMUM CAPACITY (GRAINS PER RECHARGE)	20,000	30,000	40,000	50,000	60,000	80,000
SALT REQUIRED PER MAX. RECHARGE (LBS)	15	22.5	30	37.5	45	60
SALT REQUIRED PER MIN. RECHARGE (LBS)	6	9	12	15	18	24
MINERAL TANK SIZE - FIBERGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 40	18 x 40	24 x 41	24 x 41
SALT STORAGE (CAPACITY LBS)	375	375	400	400	700	700
SERVICE FLOW (GPM) C/P <sup>1</sup>	5	7	10	15	15	15
BACKWASH FLOW RATE (GPM)	1.2	1.5	2.4	3	3	4
I.P.S. PIPE SIZE (INCHES) <sup>2</sup>	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
MAXIMUM HEIGHT (INCHES)	56	62	60	62	73	73
FLOOR SPACE REQUIRED (INCHES)	18 x 32	18 x 33	18 x 35	18 x 36	24 x 44	24 x 46
TYPE OF MINERAL	Premium Purolite C100FM Resin <sup>3</sup>					

### NOTES

<sup>1</sup>C = Continuous, P = Peak

<sup>2</sup>Depends on bypass selected

<sup>3</sup>Purolite C100FM is produced and specially treated to meet the requirements of paragraph 173.25 of the Food Additive Regulations of the FDA and is certified to NSF/ANSI-61 standards

#### Misc. notes:

Pressure drop at flow rates listed is less than 15 PSI.

Units will handle 5.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.

## PROFESSIONAL SERIES II

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 2510 FLECK VALVES
- AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR

## 2510 CONTROL VALVE FEATURES

- Fully adjustable 5-cycle top-mount control delivers controlled upflow backwash, downflow brining, and slow rinse, rapid rinse, brine refill, and downflow service
- Time-tested hydraulically balanced piston, seal, and spacer concept to control service flow and regeneration
- Non-corrosive, UV-resistant Noryl® construction
- Excellent flow rates: 19 gpm continuous, 24 gpm peak
- Backwash capacity handles tanks up to 16" diameter for softener applications, 16" diameter for filter applications
- Environmental cover

## STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Upper basket to prevent media loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

## NOTES

All metered units are supplied with 3/4" standard range meters. Optional extended range meters available.

Standard Range Meter: 125 - 2,125 gallons  
Extended Range Meter: 625 - 10,625 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>2510 VALVE WITH 3/4" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BHT34TF25</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHT51TF25</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHT68TF25</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH METER, 3/4" BYPASS, AND TURBULATOR</b>		
<b>BHM34TF25</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHM51TF25</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHM68TF25</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH 1" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BHT34T1F25</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHT51T1F25</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHT68T1F25</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH METER, 1" BYPASS, AND TURBULATOR</b>		
<b>BHM34T1F25</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHM51T1F25</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHM68T1F25</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160



## PROFESSIONAL SERIES II

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 2510 FLECK VALVES
- AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### 2510 CONTROL VALVE FEATURES

- Fully adjustable 5-cycle top-mount control delivers controlled upflow backwash, downflow brining, and slow rinse, rapid rinse, brine refill, and downflow service
- Time-tested hydraulically balanced piston, seal, and spacer concept to control service flow and regeneration
- Non-corrosive, UV-resistant Noryl® construction
- Excellent flow rates: 19 gpm continuous, 24 gpm peak
- Backwash capacity handles tanks up to 16" diameter for softener applications, 16" diameter for filter applications
- Environmental cover

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Upper basket to prevent media loss
- High flow distributor screen
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

BHM34, 51, and 68 units are supplied with 3/4" standard range meters

BHM85, 102, and 136 units are supplied with 3/4" extended range meters

Standard Range Meter: 125 - 2,125 gallons  
Extended Range Meter: 625 - 10,625 gallons

All units are available with 1" bypass valve connection. To order, insert "1" in last digits of part number. Example BHM341F25

PART NUMBER	DESCRIPTION	WEIGHT
<b>2510 VALVE WITH 3/4" BYPASS AND 12-DAY TIMER</b>		
<b>BHT34F25</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BHT51F25</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BHT68F25</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BHT85F25</b>	Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BHT102F25</b>	Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BHT136F25</b>	Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>2510 VALVE WITH METER AND 3/4" BYPASS</b>		
<b>BHM34F25</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BHM51F25</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BHM68F25</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BHM85F25</b>	Metered Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BHM102F25</b>	Metered Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BHM136F25</b>	Metered Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290





## PROFESSIONAL SERIES II

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 2510 FLECK VALVES
- ELECTRONIC AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR

### 2510SXT ELECTRONIC CONTROL VALVE FEATURES

- Easy, user-friendly programming
- Large blue backlit LCD display
- 48-hour internal power backup capacitor
- True time-of-day in hours and minutes
- Volume of soft water remaining
- Regeneration steps and cycle time remaining
- Service and self-diagnostic indicator
- Quick and easy setup of capacity, regeneration time, and day override
- Advanced programming options including up to six independently adjustable cycle times
- Programming is stored in memory and time of day will not be lost due to power outages
- Electronic step-by-step regeneration
- Regeneration tonight and regenerate now option

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Upper basket to prevent media loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

Electronic Meter Range: 9,999 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>2510 VALVE WITH 3/4" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BEHT34TF25</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BEHT51TF25</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BEHT68TF25</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH METER, 3/4" BYPASS, AND TURBULATOR</b>		
<b>BEHM34TF25</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BEHM51TF25</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BEHM68TF25</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH 1" BYPASS, TURBULATOR, AND 12-DAY TIMER</b>		
<b>BEHT34T1F25</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BEHT51T1F25</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BEHT68T1F25</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>2510 VALVE WITH METER, 1" BYPASS, AND TURBULATOR</b>		
<b>BEHM34T1F25</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BEHM51T1F25</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BEHM68T1F25</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160





## PROFESSIONAL SERIES II

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 2510 FLECK VALVES
- ELEC. AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### 2510SXT ELECTRONIC CONTROL VALVE FEATURES

- Easy, user-friendly programming
- Large blue backlit LCD display
- 48-hour internal power backup capacitor
- True time-of-day in hours and minutes
- Volume of soft water remaining
- Regeneration steps and cycle time remaining
- Service and self-diagnostic indicator
- Quick and easy setup of capacity, regeneration time, and day override
- Advanced programming options including up to six independently adjustable cycle times
- Programming is stored in memory and time of day will not be lost due to power outages
- Electronic step-by-step regeneration
- Regeneration tonight and regenerate now option

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Upper basket to prevent media loss
- High flow distributor screen
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- 316 stainless steel bypass isolation valve

### NOTES

Electronic Meter Range: 9,999 gallons

All units are available with 1" bypass valve connections. To order, insert "1" in last digits of part number. Example BEHM341F25

PART NUMBER	DESCRIPTION	WEIGHT
<b>2510 VALVE WITH 3/4" BYPASS AND 12-DAY TIMER</b>		
BEHT34F25	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
BEHT51F25	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
BEHT68F25	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
BEHT85F25	Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
BEHT102F25	Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
BEHT136F25	Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>2510 VALVE WITH METER AND 3/4" BYPASS</b>		
BEHM34F25	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
BEHM51TF25	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
BEHM68F25	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
BEHM85F25	Metered Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
BEHM102F25	Metered Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
BEHM136F25	Metered Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290



## VISION SERIES

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 255 AUTOTROL VALVES WITH LOGIX CONTROLLER

## SPECIFICATIONS BY MODEL NUMBER

	B16	B24	B32	B48	B64
MAXIMUM CAPACITY (GRAINS PER RECHARGE)	15,000	22,500	30,000	45,000	60,000
MINIMUM CAPACITY (GRAINS PER RECHARGE)	10,000	15,000	20,000	30,000	40,000
SALT REQUIRED PER MAX. RECHARGE (LBS)	7.5	13	15	22.5	30
SALT REQUIRED PER MIN. RECHARGE (LBS) <sup>1</sup>	3	5	6	9	12
MINERAL TANK SIZE - FIBERGLASS (INCHES)	8 x 35	8 x 44	9 x 48	10 x 54	12 x 52
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 33	18 x 33	18 x 33
SALT STORAGE (CAPACITY LBS)	375	375	375	375	375
SERVICE FLOW (GPM) C/P <sup>2</sup>	4 / 6	7 / 10	8 / 11	9 / 12	10 / 15
BACKWASH FLOW RATE (GPM) W/ TURBULATOR	2.4	2.4	3	4	5
BACKWASH FLOW RATE (GPM) W/O TURBULATOR	1.5	1.5	2	2.4	4
I.P.S. PIPE SIZE (INCHES) <sup>3</sup>	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
MAXIMUM HEIGHT (INCHES) <sup>4</sup>	44	52	56	62	60
FLOOR SPACE REQUIRED (INCHES)	18 x 31	18 x 33	18 x 32	18 x 33	18 x 35
TYPE OF MINERAL	Premium Purolite C100E Resin certified to NSF/ANSI-61 standards				

## NOTES

<sup>1</sup>Capacity ratings listed are based on salt dosage of 15 lbs per cubic foot for maximum and 6 lbs per cubic foot for minimum. All units are shipped from factory set at minimum capacity and minimum salt usage to afford a 40% salt savings. Use the minimum capacity when sizing the installation to gain salt-saving advantage.

<sup>2</sup>C = Continuous, P = Peak

<sup>3</sup>Depends on model selected

<sup>4</sup>Allow additional headroom of 7.5 inches to remove valve cover for all models

*Misc. notes:*

Pressure drop at continuous flow rate listed is less than 15 PSI

Units will handle 1.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.

## VISION SERIES

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 255 AUTOTROL VALVES WITH LOGIX CONTROLLER
- AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR

### 255 CONTROL VALVE FEATURES

- Non-corrosive, UV-resistant Noryl® valve body
- Five-cycle duraflow valve-disc technology with frictionless non-sliding seal for long life
- Locking bar allows quick separation for easy removal of all servicable parts from the tank adapter
- Clear-sight air check and large injector screen and cap make maintenance easy

### LOGIX ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- High efficiency regenerating sequence
- 7 or 99-day regeneration setting (740)
- Calendar override (760)
- 28-day variable reserve (760)
- Automatic capacity calculations (760)
- 742 and 762 control versions also provide fully programmable cycle times and adjustable salt settings in one pound increments

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass with copper piping sweat adapters

### NOTES

All units are available with 1" copper tails. To order, insert "1" in last digits of part number. Example: T1A or T1A2.

PART NUMBER	DESCRIPTION	WEIGHT
<b>255 VALVE WITH 740 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BTS16TA</b>	Water Softener 8" x 35" Natural Poly Tank With Turbulator	75
<b>BTS24TA</b>	Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BTS32TA</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BTS48TA</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BTS64TA</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>255 VALVE WITH 742 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BTS16TA2</b>	Water Softener 8" x 35" Natural Poly Tank With Turbulator	75
<b>BTS24TA2</b>	Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BTS32TA2</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BTS48TA2</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64TA2</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>255 VALVE WITH 760 LOGIX METER DEMAND, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BMS16TA</b>	Metered Water Softener 8" x 35" Natural Poly Tank With Turbulator	75
<b>BMS24TA</b>	Metered Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BMS32TA</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BMS48TA</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64TA</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>255 VALVE WITH 762 LOGIX METER DEMAND, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BMS16TA2</b>	Metered Water Softener 8" x 35" Natural Poly Tank With Turbulator	75
<b>BMS24TA2</b>	Metered Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BMS32TA2</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BMS48TA2</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64TA2</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160



## VISION SERIES

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 255 AUTOTROL VALVES WITH LOGIX CONTROLLER
- AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

## 255 CONTROL VALVE FEATURES

- Non-corrosive, UV-resistant Noryl® valve body
- Five-cycle duraflow valve-disc technology with frictionless non-sliding seal for long life
- Locking bar allows quick separation for easy removal of all servicable parts from the tank adapter
- Clear-sight air check and large injector screen and cap make maintenance easy

## LOGIX ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- High efficiency regenerating sequence
- 7 or 99-day regeneration setting (740)
- Calendar override (760)
- 28-day variable reserve (760)
- Automatic capacity calculations (760)
- 742 and 762 control versions also provide fully programmable cycle times and adjustable salt settings in one pound increments

## STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High flow distributor screen
- Gravel underbed provides uniform back-wash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass with copper piping sweat adapters

## NOTES

All units are available with 1" copper tails. To order, insert "1" in last digits of part number. Example: 1A or 1A2.

PART NUMBER	DESCRIPTION	WEIGHT
<b>255 VALVE WITH 740 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BTS16A</b>	Water Softener 8" x 35" Natural Poly Tank Less Turbulator	75
<b>BTS24A</b>	Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BTS32A</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BTS48A</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BTS64A</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>255 VALVE WITH 742 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BTS16A2</b>	Water Softener 8" x 35" Natural Poly Tank Less Turbulator	75
<b>BTS24A2</b>	Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BTS32A2</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BTS48A2</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS64A2</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>255 VALVE WITH 760 LOGIX METER DEMAND, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BMS16A</b>	Metered Water Softener 8" x 35" Natural Poly Tank Less Turbulator	75
<b>BMS24A</b>	Metered Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BMS32A</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BMS48A</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS64A</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>255 VALVE WITH 762 LOGIX METER DEMAND, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BMS16A2</b>	Metered Water Softener 8" x 35" Natural Poly Tank Less Turbulator	75
<b>BMS24A2</b>	Metered Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BMS32A2</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BMS48A2</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS64A2</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160



## VISION SERIES II

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 268 PERFORMA VALVES WITH LOGIX CONTROLLER

### SPECIFICATIONS BY MODEL NUMBER

	B32	B48	B64	B80	B96	B120
MAXIMUM CAPACITY (GRAINS PER RECHARGE)	30,000	45,000	60,000	75,000	90,000	120,000
MINIMUM CAPACITY (GRAINS PER RECHARGE)	20,000	30,000	40,000	50,000	60,000	80,000
SALT REQUIRED PER MAX. RECHARGE (LBS)	15	22.5	30	37.5	45	60
SALT REQUIRED PER MIN. RECHARGE (LBS) <sup>1</sup>	6	9	12	15	18	24
MINERAL TANK SIZE - FIBERGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 40	18 x 40	24 x 41	24 x 41
SALT STORAGE (CAPACITY LBS)	375	375	400	400	700	700
SERVICE FLOW (GPM) C/P <sup>2</sup>	8 / 11	9 / 12	10 / 15	13 / 18	15 / 23	20 / 25
BACKWASH FLOW RATE (GPM) W/ TURBULATOR	3	4	5	N/A	N/A	N/A
BACKWASH FLOW RATE (GPM) W/O TURBULATOR	2	2.4	4	5	6	7
I.P.S. PIPE SIZE (INCHES) <sup>3</sup>	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
MAXIMUM HEIGHT (INCHES)	56	62	56	60	72	72
FLOOR SPACE REQUIRED (INCHES)	18 x 32	18 x 33	18 x 35	24 x 53	24 x 44	24 x 46
TYPE OF MINERAL	Premium Purolite C100E Resin certified to NSF/ANSI-61 standards					

### NOTES

<sup>1</sup>Capacity ratings listed are based on salt dosage of 15 lbs per cubic foot for maximum and 6 lbs per cubic foot for minimum. All units are shipped from factory set at minimum capacity and minimum salt usage to afford a 40% salt savings. Use the minimum capacity when sizing the installation to gain salt-saving advantage.

<sup>2</sup>C = Continuous, P = Peak

<sup>3</sup>Depends on model selected

#### Misc. notes:

Pressure drop at continuous flow rate listed is less than 15 PSI

Units will handle 1.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.



## VISION SERIES II

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 268 PERFORMA VALVES WITH LOGIX CONTROLLER
- AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR

## 268 CONTROL VALVE FEATURES

- Service flow rates to 25 gpm
- Non-corrosive, UV-resistant Noryl® valve body
- Five-cycle duraflow valve-disc technology with frictionless non-sliding seal for long life

## LOGIX ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- High efficiency regenerating sequence
- 7 or 99-day regeneration setting (740)
- Calendar override (760)
- 28-day variable reserve (760)
- Automatic capacity calculations (760)
- 742 and 762 control versions also provide fully programmable cycle times and adjustable salt settings in one pound increments

## STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass with copper piping sweat adapters

## NOTES

All units are available with 1" copper tails. To order, insert "1" in last digits of part number. Example: T1P or T1P2.

PART NUMBER	DESCRIPTION	WEIGHT
<b>268 VALVE WITH 740 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BTS16TP</b>	Water Softener 8" x 35" Natural Poly Tank With Turbulator	75
<b>BTS24TP</b>	Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BTS32TP</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BTS48TP</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BTS64TP</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>268 VALVE WITH 742 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BTS16TP2</b>	Water Softener 8" x 35" Natural Poly Tank With Turbulator	75
<b>BTS24TP2</b>	Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BTS32TP2</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BTS48TP2</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64TP2</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>268 VALVE WITH 760 LOGIX METER DEMAND, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BMS16TP</b>	Metered Water Softener 8" x 35" Natural Poly Tank With Turbulator	75
<b>BMS24TP</b>	Metered Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BMS32TP</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BMS48TP</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64TP</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>268 VALVE WITH 762 LOGIX METER DEMAND, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BMS16TP2</b>	Metered Water Softener 8" x 35" Natural Poly Tank With Turbulator	75
<b>BMS24TP2</b>	Metered Water Softener 8" x 44" Natural Poly Tank With Turbulator	100
<b>BMS32TP2</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BMS48TP2</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64TP2</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160





## VISION SERIES II

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- 268 PERFORMA VALVES WITH LOGIX CONTROLLER
- AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### 268 CONTROL VALVE FEATURES

- Service flow rates to 25 gpm
- Non-corrosive, UV-resistant Noryl® valve body
- Five-cycle duraflow valve-disc technology with frictionless non-sliding seal for long life

### LOGIX ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- High efficiency regenerating sequence
- 7 or 99-day regeneration setting (740)
- Calendar override (760)
- 28-day variable reserve (760)
- Automatic capacity calculations (760)
- 742 and 762 control versions also provide fully programmable cycle times and adjustable salt settings in one pound increments

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High flow distributor screen
- Gravel underbed provides uniform back-wash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass with copper piping sweat adapters

### NOTES

All units are available with 1" copper tails. To order, insert "1" in last digits of part number. Example: 1P or 1P2.

PART NUMBER	DESCRIPTION	WEIGHT
<b>268 VALVE WITH 740 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BTS16P</b>	Water Softener 8" x 35" Natural Poly Tank Less Turbulator	75
<b>BTS24P</b>	Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BTS32P</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BTS48P</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BTS64P</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>268 VALVE WITH 742 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BTS16P2</b>	Water Softener 8" x 35" Natural Poly Tank Less Turbulator	75
<b>BTS24P2</b>	Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BTS32P2</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BTS48P2</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS64P2</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>268 VALVE WITH 760 LOGIX METER DEMAND, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BMS16P</b>	Metered Water Softener 8" x 35" Natural Poly Tank Less Turbulator	75
<b>BMS24P</b>	Metered Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BMS32P</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BMS48P</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS64P</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>268 VALVE WITH 762 LOGIX METER DEMAND, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BMS16P2</b>	Metered Water Softener 8" x 35" Natural Poly Tank Less Turbulator	75
<b>BMS24P2</b>	Metered Water Softener 8" x 44" Natural Poly Tank Less Turbulator	100
<b>BMS32P2</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BMS48P2</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS64P2</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160



## VISION SERIES II

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 268 PERFORMA VALVES WITH LOGIX CONTROLLER

## SPECIFICATIONS BY MODEL NUMBER

	B34	B51	B68	B85	B102	B136
MAXIMUM CAPACITY (GRAINS PER RECHARGE)	34,000	51,000	68,000	85,000	102,000	136,000
MINIMUM CAPACITY (GRAINS PER RECHARGE)	20,000	30,000	40,000	50,000	60,000	80,000
SALT REQUIRED PER MAX. RECHARGE (LBS)	15	22.5	30	37.5	45	60
SALT REQUIRED PER MIN. RECHARGE (LBS)	6	9	12	15	18	24
MINERAL TANK SIZE - FIBERGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
BRINE TANK SIZE - POLYETHYLENE (INCHES)	18 x 33	18 x 33	18 x 40	18 x 40	24 x 41	24 x 41
SALT STORAGE (CAPACITY LBS)	375	375	400	400	700	700
SERVICE FLOW (GPM) C/P <sup>1</sup>	8 / 11	9 / 12	10 / 15	13 / 18	15 / 23	20 / 25
BACKWASH FLOW RATE (GPM)	1.2	1.5	2.4	3	3	4
I.P.S. PIPE SIZE (INCHES) <sup>2</sup>	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
MAXIMUM HEIGHT (INCHES)	56	62	60	62	73	73
FLOOR SPACE REQUIRED (INCHES)	18 x 32	18 x 33	18 x 35	18 x 36	24 x 44	24 x 46
TYPE OF MINERAL	Premium Purolite C100FM Resin <sup>3</sup>					

## NOTES

<sup>1</sup>C = Continuous, P = Peak

<sup>2</sup>Depends on bypass selected

<sup>3</sup>Purolite C100FM is produced and specially treated to meet the requirements of paragraph 173.25 of the Food Additive Regulations of the FDA and is certified to NSF/ANSI-61 standards

*Misc. notes:*

Pressure drop at flow rates listed is less than 15 PSI.

Units will handle 5.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.

## VISION SERIES II

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 268 PERFORMA VALVES WITH LOGIX CONTROLLER
- AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR

### 268 CONTROL VALVE FEATURES

- Service flow rates to 25 gpm
- Non-corrosive, UV-resistant Noryl® valve body
- Five-cycle duraflow valve-disc technology with frictionless non-sliding seal for long life

### LOGIX ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- High efficiency regenerating sequence
- 7 or 99-day regeneration setting (740)
- Calendar override (760)
- 28-day variable reserve (760)
- Automatic capacity calculations (760)
- 742 and 762 control versions also provide fully programmable cycle times and adjustable salt settings in one pound increments

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Upper basket to prevent media loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass with copper piping sweat adapters

PART NUMBER	DESCRIPTION	WEIGHT
<b>268 VALVE WITH 740 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BHT34TP</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHT51TP</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHT68TP</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>268 VALVE WITH 742 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BHM34TP2</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHM51TP2</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHM68TP2</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>268 VALVE WITH 760 LOGIX METER DEMAND, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BHT34T1P</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHT51T1P</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHT68T1P</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>268 VALVE WITH 762 LOGIX METER DEMAND, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BHM34T1P2</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHM51T1P2</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHM68T1P2</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160



## VISION SERIES II

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- 268 PERFORMA VALVES WITH LOGIX CONTROLLER
- AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

## 268 CONTROL VALVE FEATURES

- Service flow rates to 25 gpm
- Non-corrosive, UV-resistant Noryl® valve body
- Five-cycle duraflow valve-disc technology with frictionless non-sliding seal for long life

## LOGIX ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- High efficiency regenerating sequence
- 7 or 99-day regeneration setting (740)
- Calendar override (760)
- 28-day variable reserve (760)
- Automatic capacity calculations (760)
- 742 and 762 control versions also provide fully programmable cycle times and adjustable salt settings in one pound increments

## STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- Upper basket to prevent media loss
- High flow distributor screen
- Garnet underbed provides uniform backwash flow and minimizes resin channeling during service
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass with copper piping sweat adapters

## NOTE

All units are available with 1" copper tails. To order, insert "1" in last digits of part number. Example BHM1021P2

PART NUMBER	DESCRIPTION	WEIGHT
<b>268 VALVE WITH 740 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BHT34P</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BHT51P</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BHT68P</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BHT85P</b>	Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BHT102P</b>	Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BHT136P</b>	Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>268 VALVE WITH 742 LOGIX TIME CLOCK, WITH BYPASS AND 3/4" COPPER TAILS</b>		
<b>BHM34P2</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BHM51P2</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BHM68P2</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BHM85P2</b>	Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BHM102P2</b>	Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BHM136P2</b>	Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290



**SPECIALIST SERIES**

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- CLEARWATER 505 VALVES

**SPECIFICATIONS BY MODEL NUMBER**

	<b>B32</b>	<b>B48</b>	<b>B64</b>	<b>B80</b>	<b>B96</b>	<b>B120</b>
<b>MAXIMUM CAPACITY (GRAINS PER RECHARGE)</b>	30,000	45,000	60,000	75,000	90,000	120,000
<b>MINIMUM CAPACITY (GRAINS PER RECHARGE)</b>	20,000	30,000	40,000	50,000	60,000	80,000
<b>SALT REQUIRED PER MAX. RECHARGE (LBS)</b>	15	22.5	30	37.5	45	60
<b>SALT REQUIRED PER MIN. RECHARGE (LBS)<sup>1</sup></b>	6	9	12	15	18	24
<b>MINERAL TANK SIZE - FIBERGLASS (INCHES)</b>	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
<b>BRINE TANK SIZE - POLYETHYLENE (INCHES)</b>	18 x 33	18 x 33	18 x 40	18 x 40	24 x 41	24 x 41
<b>SALT STORAGE (CAPACITY LBS)</b>	375	375	400	400	700	700
<b>SERVICE FLOW (GPM) C/P<sup>2</sup></b>	8 / 11	9 / 12	10 / 15	13 / 18	15 / 23	20 / 27
<b>BACKWASH FLOW RATE (GPM) W/ TURBULATOR</b>	3	4	5	N/A	N/A	N/A
<b>BACKWASH FLOW RATE (GPM) W/O TURBULATOR</b>	2	2.4	4	5	6	7
<b>I.P.S. PIPE SIZE (INCHES)<sup>3</sup></b>	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
<b>MAXIMUM HEIGHT (INCHES)</b>	56	62	56	60	72	72
<b>FLOOR SPACE REQUIRED (INCHES)</b>	18 x 32	18 x 33	18 x 35	24 x 53	24 x 44	24 x 46
<b>TYPE OF MINERAL</b>	Premium Purolite C100E Resin certified to NSF/ANSI-61 standards					

**NOTES**

<sup>1</sup>Capacity ratings listed are based on salt dosage of 15 lbs per cubic foot for maximum and 6 lbs per cubic foot for minimum. All units are shipped from factory set at minimum capacity and minimum salt usage to afford a 40% salt savings. Use the minimum capacity when sizing the installation to gain salt-saving advantage.

<sup>2</sup>C = Continuous, P = Peak

<sup>3</sup>Depends on model selected

*Misc. notes:*

Pressure drop at continuous flow rate listed is less than 15 PSI

Units will handle 1.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.



## SPECIALIST SERIES

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- CLEARWATER 505 VALVES
- AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR

## CLEARWATER 505 CONTROL VALVE FEATURES

- 20 selectable preprogrammed regeneration cycles
- Double backwash offers optimum regeneration efficiency
- Externally accessible injector and screen for ease of service
- One-piece seal and spacer cartridge simplifies replacement
- Treated water regeneration refill
- Pre- or post-regeneration brine refill selectable

## 505 ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- DC drive
- High efficiency regenerating sequence
- 1 - 28 days override
- Capacitor power backup
- 28-day variable reserve
- Automatic capacity calculations

## STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass with brass sweat adapters

## NOTES

Electronic Meter Range: 20 - 50,000 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>505 VALVE WITH ELECTRONIC TIME CLOCK, BYPASS, AND 3/4" BRASS TAILS</b>		
<b>BTS32TC</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BTS48TC</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BTS64TC</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>505 VALVE WITH METER, BYPASS, AND 3/4" BRASS TAILS</b>		
<b>BMS32TC</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BMS48TC</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64TC</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>505 VALVE WITH ELECTRONIC TIME CLOCK, BYPASS, AND 1" BRASS TAILS</b>		
<b>BTS32T1C</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BTS48T1C</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BTS64T1C</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>505 VALVE WITH METER, BYPASS, AND 1" BRASS TAILS</b>		
<b>BMS32T1C</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BMS48T1C</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BMS64T1C</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160





## SPECIALIST SERIES

- PREMIUM GRADE RESIN SOFTENER SYSTEMS
- CLEARWATER 505 VALVES
- AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

### CLEARWATER 505 CONTROL VALVE FEATURES

- 20 selectable preprogrammed regeneration cycles
- Double backwash offers optimum regeneration efficiency
- Externally accessible injector and screen for ease of service
- One-piece seal and spacer cartridge simplifies replacement
- Treated water regeneration refill
- Pre- or post-regeneration brine refill selectable

### 505 ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- DC drive
- High efficiency regenerating sequence
- 1 - 28 days override
- Capcitor power backup
- 28-day variable reserve
- Automatic capacity calculations

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High flow distributor screen
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass with brass sweat adapters

### NOTES

Electronic Meter Range: 20 - 50,000 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>505 VALVE WITH ELECTRONIC TIME CLOCK, BYPASS, AND 3/4" BRASS TAILS</b>		
<b>BTS32C</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BTS48C</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BTS64C</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BTS80C</b>	Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BTS96C</b>	Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BTS120C</b>	Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>505 VALVE WITH METER, BYPASS, AND 3/4" BRASS TAILS</b>		
<b>BMS32C</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BMS48C</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS64C</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BMS80C</b>	Metered Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BMS96C</b>	Metered Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BMS120C</b>	Metered Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>505 VALVE WITH ELECTRONIC TIME CLOCK, BYPASS, AND 1" BRASS TAILS</b>		
<b>BTS321C</b>	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BTS481C</b>	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BTS641C</b>	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BTS801C</b>	Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BTS961C</b>	Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BTS1201C</b>	Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>505 VALVE WITH METER, BYPASS, AND 1" BRASS TAILS</b>		
<b>BMS321C</b>	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
<b>BMS481C</b>	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
<b>BMS641C</b>	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
<b>BMS801C</b>	Metered Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
<b>BMS961C</b>	Metered Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
<b>BMS1201C</b>	Metered Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290



**SPECIALIST SERIES**

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- CLEARWATER 505 VALVES

**SPECIFICATIONS BY MODEL NUMBER**

	<b>B34</b>	<b>B51</b>	<b>B68</b>	<b>B85</b>	<b>B102</b>	<b>B136</b>
<b>MAXIMUM CAPACITY (GRAINS PER RECHARGE)</b>	34,000	51,000	68,000	85,000	102,000	136,000
<b>MINIMUM CAPACITY (GRAINS PER RECHARGE)</b>	20,000	30,000	40,000	50,000	60,000	80,000
<b>SALT REQUIRED PER MAX. RECHARGE (LBS)</b>	15	22.5	30	37.5	45	60
<b>SALT REQUIRED PER MIN. RECHARGE (LBS)</b>	6	9	12	15	18	24
<b>MINERAL TANK SIZE - FIBERGLASS (INCHES)</b>	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
<b>BRINE TANK SIZE - POLYETHYLENE (INCHES)</b>	18 x 33	18 x 33	18 x 40	18 x 40	24 x 41	24 x 41
<b>SALT STORAGE (CAPACITY LBS)</b>	375	375	400	400	700	700
<b>SERVICE FLOW (GPM) C/P<sup>1</sup></b>	8 / 11	9 / 12	10 / 15	13 / 18	15 / 23	20 / 27
<b>BACKWASH FLOW RATE (GPM)</b>	1.2	1.5	2.4	3	3	4
<b>I.P.S. PIPE SIZE (INCHES)<sup>2</sup></b>	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
<b>MAXIMUM HEIGHT (INCHES)</b>	56	62	60	62	73	73
<b>FLOOR SPACE REQUIRED (INCHES)</b>	18 x 32	18 x 33	18 x 35	18 x 36	24 x 44	24 x 46
<b>TYPE OF MINERAL</b>	Premium Purolite C100FM Resin <sup>3</sup>					

**NOTES**

<sup>1</sup>C = Continuous, P = Peak

<sup>2</sup>Depends on bypass selected

<sup>3</sup>Purolite C100FM is produced and specially treated to meet the requirements of paragraph 173.25 of the Food Additive Regulations of the FDA and is certified to NSF/ANSI-61 standards

*Misc. notes:*

Pressure drop at flow rates listed is less than 15 PSI.

Units will handle 5.0 PPM clearwater iron. Use iron filter on larger amounts.

TDS, application, and flow rates will influence the performance of the system.

## SPECIALIST SERIES

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- CLEARWATER 505 VALVES
- AUTOMATIC & DEMAND SYSTEMS WITH TURBULATOR

### CLEARWATER 505 CONTROL VALVE FEATURES

- 20 selectable preprogrammed regeneration cycles
- Double backwash offers optimum regeneration efficiency
- Externally accessible injector and screen for ease of service
- One-piece seal and spacer cartridge simplifies replacement
- Treated water regeneration refill
- Pre- or post-regeneration brine refill selectable

### 505 ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- DC drive
- High efficiency regenerating sequence
- 1 - 28 days override
- Capacitor power backup
- 28-day variable reserve
- Automatic capacity calculations

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High velocity turbulator backwash distributor provides exceptional resin cleaning for improved regeneration kinetics
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass with brass sweat adapters

### NOTES

Electronic Meter Range: 20 - 50,000 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>505 VALVE WITH ELECTRONIC TIME CLOCK, BYPASS, AND 3/4" BRASS TAILS</b>		
<b>BHT34C</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHT51TC</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHT68TC</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>505 VALVE WITH METER, BYPASS, AND 3/4" BRASS TAILS</b>		
<b>BHM34TC</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHM51TC</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHM68TC</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>505 VALVE WITH ELECTRONIC TIME CLOCK, BYPASS, AND 1" BRASS TAILS</b>		
<b>BHT34T1C</b>	Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHT51T1C</b>	Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHT68T1C</b>	Water Softener 12" x 52" Natural Poly Tank With Turbulator	160
<b>505 VALVE WITH METER, BYPASS, AND 1" BRASS TAILS</b>		
<b>BHM34T1C</b>	Metered Water Softener 9" x 48" Natural Poly Tank With Turbulator	110
<b>BHM51T1C</b>	Metered Water Softener 10" x 54" Natural Poly Tank With Turbulator	130
<b>BHM68T1C</b>	Metered Water Softener 12" x 52" Natural Poly Tank With Turbulator	160



## SPECIALIST SERIES

- FINE MESH HIGH CAPACITY RESIN SOFTENER SYSTEMS
- CLEARWATER 505 VALVES
- AUTOMATIC & DEMAND SYSTEMS WITH STANDARD DISTRIBUTOR

## CLEARWATER 505 CONTROL VALVE FEATURES

- 20 selectable preprogrammed regeneration cycles
- Double backwash offers optimum regeneration efficiency
- Externally accessible injector and screen for ease of service
- One-piece seal and spacer cartridge simplifies replacement
- Treated water regeneration refill
- Pre- or post-regeneration brine refill selectable

## 505 ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- DC drive
- High efficiency regenerating sequence
- 1 - 28 days override
- Capacitor power backup
- 28-day variable reserve
- Automatic capacity calculations

## STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of resin performance during system cycles
- 1.05 distributor tube minimizes pressure loss
- High flow distributor screen
- Gravel underbed provides uniform backwash flow and minimizes resin channeling during service
- Res-up feeder for maximum iron removal and improved regeneration efficiency
- Brine tank safety shutoff valve with float
- Brine draw aircheck valve
- Salt grid platform
- Brine tank safety overflow fitting
- Bypass with brass sweat adapters

## NOTES

Electronic Meter Range: 20 - 50,000 gallons

PART NUMBER	DESCRIPTION	WEIGHT
<b>505 VALVE WITH ELECTRONIC TIME CLOCK, BYPASS, AND 3/4" BRASS TAILS</b>		
BHT34C	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
BHT51C	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
BHT68C	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
BHT85C	Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
BHT102C	Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
BHT136C	Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>505 VALVE WITH METER, BYPASS, AND 3/4" BRASS TAILS</b>		
BHM34C	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
BHM51C	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
BHM68C	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
BHM85C	Metered Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
BHM102C	Metered Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
BHM136C	Metered Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>505 VALVE WITH ELECTRONIC TIME CLOCK, BYPASS, AND 1" BRASS TAILS</b>		
BHT341C	Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
BHT511C	Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
BHT681C	Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
BHT851C	Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
BHT1021C	Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
BHT1361C	Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290
<b>505 VALVE WITH METER, BYPASS, AND 1" BRASS TAILS</b>		
BHM341C	Metered Water Softener 9" x 48" Natural Poly Tank Less Turbulator	110
BHM511C	Metered Water Softener 10" x 54" Natural Poly Tank Less Turbulator	130
BHM681C	Metered Water Softener 12" x 52" Natural Poly Tank Less Turbulator	160
BHM851C	Metered Water Softener 13" x 54" Natural Poly Tank Less Turbulator	190
BHM1021C	Metered Water Softener 14" x 65" Natural Poly Tank Less Turbulator	235
BHM1361C	Metered Water Softener 16" x 65" Natural Poly Tank Less Turbulator	290



## PROFESSIONAL SERIES

- MANUAL UPFLOW FILTRATION SYSTEMS
- PVC IN/OUT HEAD

### SPECIFICATIONS BY MODEL NUMBER

	BUF9	BUF10	BUF12	BUF13
FILTER MEDIA CAPACITY (CU. FT.)	1.00	1.50	2.00	2.50
APPROXIMATE FREEBOARD (FROM TOP OF TANK)	18"	18"	16"	16"
UNDERBED "D" GRAVEL REQUIRED (LBS)	10	15	20	30
MINERAL TANK SIZE - POLYGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54
I.P.S. PIPE SIZE (INCHES)	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
SERVICE FLOW RATE - CONTINUOUS (GPM)	2.2	2.8	4	5
SERVICE FLOW RATE - INTERMITTENT (GPM)	4	5	6	7
APPROX. SPACE REQUIRED (D x W x H INCHES)	9 x 11 x 55	10 x 12 x 61	12 x 13 x 59	13 x 13 x 61
APPROX. SHIPPING WEIGHT	24	29	33	37

### NOTES

**All units shipped empty.** See Filtration Media Guide for selection of proper media for your filtration application.

Use of a flow control in the Service line is highly recommended.

Caution should always be used in sizing filters! Always choose a unit by first satisfying the Backwash Flow Rate requirement above.

Service Flow Rate shown is based on 5 GPM per square foot of tank area and is optimal for most media. Actual field conditions or media selection may dictate higher or lower rates. TDS, pH, application, and flow rates may also affect the performance of the system. Consult the factory or your field salesperson for application guidance.

Pipe size is dependent on model selected.



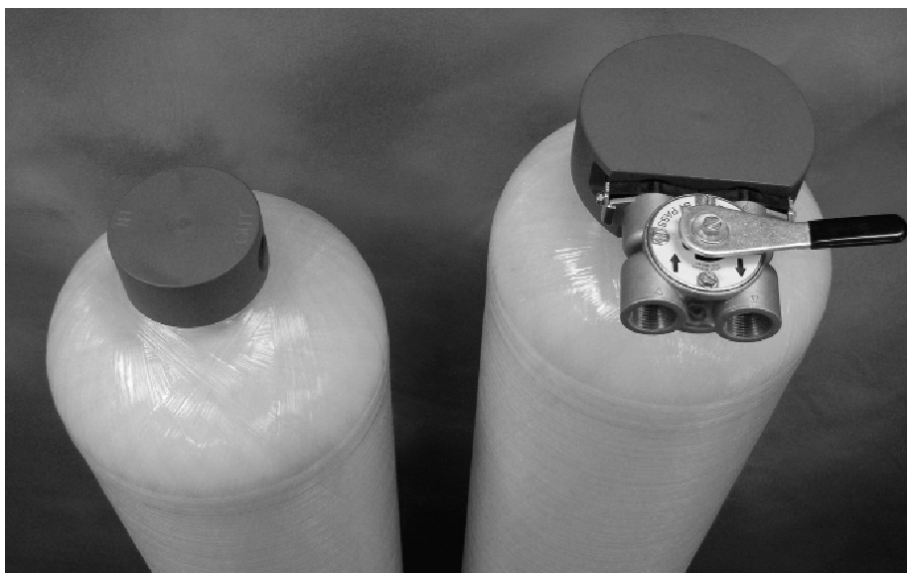
## PROFESSIONAL SERIES

- MANUAL UPFLOW FILTRATION SYSTEMS
- PVC IN/OUT HEAD
- NO DOME HOLE

### STANDARD SYSTEM FEATURES

- Machined PVC head
- Polyglass resin tank
- Natural color vessel for easier viewing of mineral height
- 3/4" in/out head with 13/16" riser tube
- 1" in/out head with 1.05 riser tube minimizing pressure loss
- Bypass valve head with 1.05 riser tube
- High-strength polypropylene distributor basket
- Upper screen basket to eliminate media loss
- All units shipped empty. Use Media Selection Guide

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" UPFLOW WITH PVC IN/OUT HEAD</b>		
<b>BUF9</b>	Upflow Filter 9" x 48" Natural Poly Tank 3/4"	27
<b>BUF10</b>	Upflow Filter 10" x 54" Natural Poly Tank 3/4"	32
<b>BUF12</b>	Upflow Filter 12" x 52" Natural Poly Tank 3/4"	36
<b>BUF13</b>	Upflow Filter 13" x 54" Natural Poly Tank 3/4"	40
<b>3/4" UPFLOW WITH 3/4" BYPASS VALVE</b>		
<b>BUF9BP</b>	Upflow Filter 9" x 48" Natural Poly Tank 3/4"	29
<b>BUF10BP</b>	Upflow Filter 10" x 54" Natural Poly Tank 3/4"	34
<b>BUF12BP</b>	Upflow Filter 12" x 52" Natural Poly Tank 3/4"	38
<b>BUF13BP</b>	Upflow Filter 13" x 54" Natural Poly Tank 3/4"	42
<b>1" UPFLOW WITH PVC IN/OUT HEAD</b>		
<b>BUF91</b>	Upflow Filter 9" x 48" Natural Poly Tank 1"	27
<b>BUF101</b>	Upflow Filter 10" x 54" Natural Poly Tank 1"	32
<b>BUF121</b>	Upflow Filter 12" x 52" Natural Poly Tank 1"	36
<b>BUF131</b>	Upflow Filter 13" x 54" Natural Poly Tank 1"	40
<b>1" UPFLOW WITH 1" BYPASS VALVE</b>		
<b>BUF91BP</b>	Upflow Filter 9" x 48" Natural Poly Tank 1"	29
<b>BUF101BP</b>	Upflow Filter 10" x 54" Natural Poly Tank 1"	34
<b>BUF121BP</b>	Upflow Filter 12" x 52" Natural Poly Tank 1"	38
<b>BUF131BP</b>	Upflow Filter 13" x 54" Natural Poly Tank 1"	42



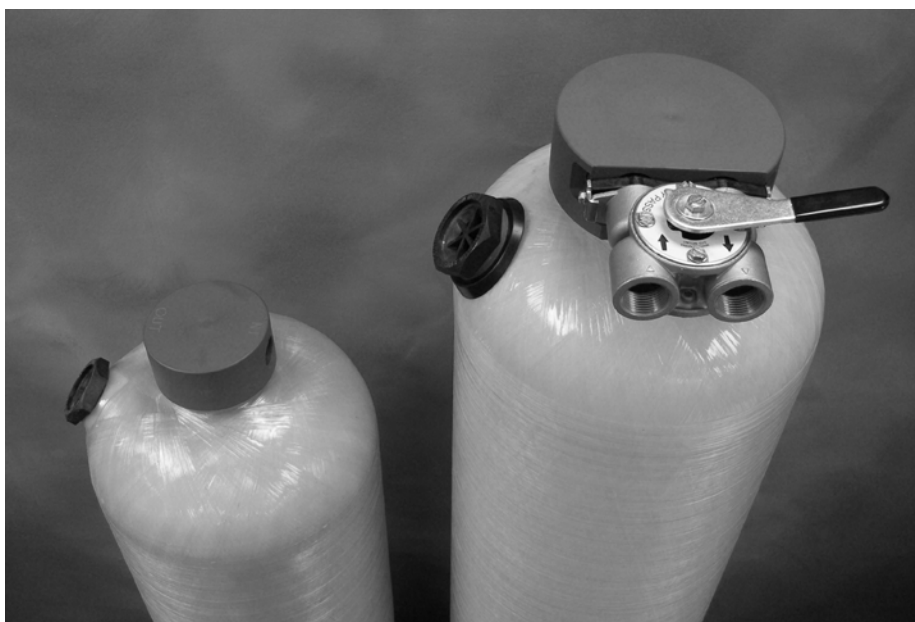
## PROFESSIONAL SERIES

- MANUAL UPFLOW FILTRATION SYSTEMS
- PVC IN/OUT HEAD
- DOME HOLE INCLUDED

### STANDARD SYSTEM FEATURES

- Machined PVC head
- Polyglass resin tank
- Natural color vessel for easier viewing of mineral height
- 3/4" in/out head with 13/16" riser tube
- 1" in/out head with 1.05 riser tube minimizing pressure loss
- Bypass valve head with 1.05 riser tube
- High-strength polypropylene distributor basket
- Upper screen basket to eliminate media loss
- All units shipped empty; use Media Selection Guide

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" UPFLOW WITH DOME HOLE AND PVC IN/OUT HEAD</b>		
BUF9DH	Upflow Filter 9" x 48" Natural FRP Tank 3/4" with fill hole	28
BUF10DH	Upflow Filter 10" x 54" Natural Poly Tank 3/4" with fill hole	33
BUF12DH	Upflow Filter 12" x 52" Natural Poly Tank 3/4" with fill hole	36
BUF13DH	Upflow Filter 13" x 54" Natural Poly Tank 3/4" with fill hole	40
<b>3/4" UPFLOW WITH DOME HOLE AND 3/4" BYPASS VALVE</b>		
BUF9DHBP	Upflow Filter 9" x 48" Natural FRP Tank 3/4" with fill hole	31
BUF10DHBP	Upflow Filter 10" x 54" Natural Poly Tank 3/4" with fill hole	35
BUF12DHBP	Upflow Filter 12" x 52" Natural Poly Tank 3/4" with fill hole	37
BUF13DHBP	Upflow Filter 13" x 54" Natural Poly Tank 3/4" with fill hole	44
<b>1" UPFLOW WITH DOME HOLE AND PVC IN/OUT HEAD</b>		
BUF9DH1	Upflow Filter 9" x 48" Natural FRP Tank 1" with fill hole	28
BUF10DH1	Upflow Filter 10" x 54" Natural Poly Tank 1" with fill hole	33
BUF12DH1	Upflow Filter 12" x 52" Natural Poly Tank 1" with fill hole	36
BUF13DH1	Upflow Filter 13" x 54" Natural Poly Tank 1" with fill hole	40
<b>1" UPFLOW WITH DOME HOLE AND 1" BYPASS VALVE</b>		
BUF9DH1BP	Upflow Filter 9" x 48" Natural FRP Tank 1" with fill hole	31
BUF10DH1BP	Upflow Filter 10" x 54" Natural Poly Tank 1" with fill hole	35
BUF12DH1BP	Upflow Filter 12" x 52" Natural Poly Tank 1" with fill hole	37
BUF13DH1BP	Upflow Filter 13" x 54" Natural Poly Tank 1" with fill hole	44



## PROFESSIONAL SERIES

- AUTOMATIC FILTRATION SYSTEMS
- 5600 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	BTF9	BTF10	BTF12	BTF13
FILTER MEDIA CAPACITY (CU. FT.)	1.00	1.50	2.00	2.50
APPROXIMATE FREEBOARD (FROM TOP OF TANK)	18"	18"	16"	16"
UNDERBED "D" GRAVEL REQUIRED (LBS)	10	15	20	30
MINERAL TANK SIZE - POLYGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54
SERVICE FLOW RATE - CONTINUOUS (GPM)	2.2	2.8	4	5
SERVICE FLOW RATE - INTERMITTENT (GPM)	4	5	6	7
BACKWASH FLOW RATE (GPM)	4.0	5.0	7.0	7.0
I.P.S. PIPE SIZE (INCHES)	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
APPROX. SPACE REQUIRED (D x W x H INCHES)	9 x 11 x 55	10 x 12 x 61	12 x 13 x 59	13 x 13 x 61
APPROX. SHIPPING WEIGHT	27	32	36	40

### NOTES

**All units shipped empty.** See Filtration Media Guide for selection of proper media for your filtration application.

Use of a flow control in the Service line is highly recommended.

Caution should always be used in sizing filters! Always choose a unit by first satisfying the Backwash Flow Rate requirement above.

Service Flow Rate shown is based on 5 GPM per square foot of tank area and is optimal for most media. Actual field conditions or media selection may dictate higher or lower rates. TDS, pH, application, and flow rates may also affect the performance of the system. Consult the factory or your field salesperson for application guidance.

Allow additional headroom of 7.5 inches to remove valve cover for all models.

**PROFESSIONAL SERIES**

- **AUTOMATIC FILTRATION SYSTEMS**
- **5600 CONTROL VALVES**
- **AUTOMATIC TIME CLOCK, WITH OR WITHOUT DOME HOLE**

**5600 CONTROL VALVE FEATURES**

- 12-day electromechanical timer allows maximum selection for backwash frequency
- Ruggedly built timer is designed with heavy-duty 3/8" wide plastic gears
- Non-corrosive, UV-resistant Noryl® valve body
- Economical; small annual power consumption, keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

**STANDARD SYSTEM FEATURES**

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1.05 distributor tube minimizing pressure loss
- High flow distributor screen
- 316 stainless steel bypass isolation valve
- All units shipped empty; use Media Selection Guide

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" DOWNFLOW WITH 12-DAY TIMER</b>		
<b>BTF9F</b>	Downflow Filter 9" x 48" Natural Poly Tank 3/4"	30
<b>BTF10F</b>	Downflow Filter 10" x 54" Natural Poly Tank 3/4"	35
<b>BTF12F</b>	Downflow Filter 12" x 52" Natural Poly Tank 3/4"	38
<b>BTF13F</b>	Downflow Filter 13" x 54" Natural Poly Tank 3/4"	40
<b>1" DOWNFLOW WITH 12-DAY TIMER</b>		
<b>BTF91F</b>	Downflow Filter 9" x 48" Natural Poly Tank 1"	30
<b>BTF101F</b>	Downflow Filter 10" x 54" Natural Poly Tank 1"	35
<b>BTF121F</b>	Downflow Filter 12" x 52" Natural Poly Tank 1"	38
<b>BTF131F</b>	Downflow Filter 13" x 54" Natural Poly Tank 1"	40
<b>3/4" DOWNFLOW WITH DOME HOLE AND 12-DAY TIMER</b>		
<b>BTF9DHF</b>	Downflow Filter 9" x 48" Natural Poly Tank with fill hole 3/4"	30
<b>BTF10DHF</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 3/4"	35
<b>BTF12DHF</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 3/4"	38
<b>BTF13DHF</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 3/4"	40
<b>1" DOWNFLOW WITH DOME HOLE AND 12-DAY TIMER</b>		
<b>BTF9DH1F</b>	Downflow Filter 9" x 48" Natural Poly Tank with fill hole 1"	30
<b>BTF10DH1F</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 1"	35
<b>BTF12DH1F</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 1"	38
<b>BTF13DH1F</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 1"	40



## PROFESSIONAL SERIES

- AUTOMATIC FILTRATION SYSTEMS
- 5600 CONTROL VALVES
- ELECTRONIC CONTROLLER, WITH OR WITHOUT DOME HOLE

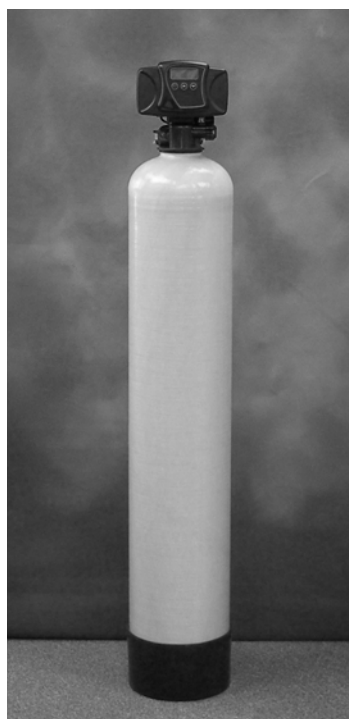
### 5600SXT ELECTRONIC CONTROL VALVE FEATURES

- Easy, user-friendly programming
- Large blue backlit LCD display
- 48-hour internal power backup capacitor
- True time-of-day in hours and minutes
- Volume of soft water remaining
- Regeneration steps and cycle time remaining
- Service and self-diagnostic indicator
- Quick and easy setup of capacity, regeneration time, and day override
- Advanced programming options including up to six independently adjustable cycle times
- Programming is stored in memory and will not be lost due to power outages
- Electronic step-by-step regeneration
- Regeneration tonight and regenerate now option

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1.05 distributor tube minimizing pressure loss
- High flow distributor screen
- 316 stainless steel bypass isolation valve
- All units shipped empty; use Media Selection Guide

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" DOWNFLOW WITH ELECTRONIC CONTROLLER</b>		
<b>BTF9FSE</b>	Downflow Filter 9" x 48" Natural Poly Tank 3/4"	30
<b>BTF10FSE</b>	Downflow Filter 10" x 54" Natural Poly Tank 3/4"	35
<b>BTF12FSE</b>	Downflow Filter 12" x 52" Natural Poly Tank 3/4"	38
<b>BTF13FSE</b>	Downflow Filter 13" x 54" Natural Poly Tank 3/4"	40
<b>1" DOWNFLOW WITH ELECTRONIC CONTROLLER</b>		
<b>BTF91FSE</b>	Downflow Filter 9" x 48" Natural Poly Tank 1"	30
<b>BTF101FSE</b>	Downflow Filter 10" x 54" Natural Poly Tank 1"	35
<b>BTF121FSE</b>	Downflow Filter 12" x 52" Natural Poly Tank 1"	38
<b>BTF131FSE</b>	Downflow Filter 13" x 54" Natural Poly Tank 1"	40
<b>3/4" DOWNFLOW WITH DOME HOLE AND ELECTRONIC CONTROLLER</b>		
<b>BTF9DHFSE</b>	Downflow Filter 9" x 48" Natural Poly Tank with fill hole 3/4"	30
<b>BTF10DHFSE</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 3/4"	35
<b>BTF12DHFSE</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 3/4"	38
<b>BTF13DHFSE</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 3/4"	40
<b>1" DOWNFLOW WITH DOME HOLE AND ELECTRONIC CONTROLLER</b>		
<b>BTF9DH1FSE</b>	Downflow Filter 9" x 48" Natural Poly Tank with fill hole 1"	30
<b>BTF10DH1FSE</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 1"	35
<b>BTF12DH1FSE</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 1"	38
<b>BTF13DH1FSE</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 1"	40





## PROFESSIONAL SERIES

- GREENSAND FILTRATION SYSTEMS
- 5600 CONTROL VALVES
- AUTOMATIC TIME CLOCK

### 5600 CONTROL VALVE FEATURES

- 12-day electromechanical timer allows maximum selection for backwash frequency
- Ruggedly built timer is designed with heavy-duty 3/8" wide plastic gears
- Injector/drain modules containing the brine valve, flow controls, and injector are removable from the valve exterior
- Chemical resistant PVC injector nozzle and throat
- Non-corrosive, UV-resistant Noryl® valve body
- Economical; small annual power consumption, keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1.05 distributor tube minimizing pressure loss
- High flow distributor screen
- 10 x 16 potassium feeder tank
- 316 stainless steel bypass isolation valve
- All units shipped empty; use Media Selection Guide

### NOTES

Iron and manganese removal: A recommended dose of 1.5 to 2 ounces of Potassium Permanganate per cubic foot of MTM® or Manganese Greensand is suggested for regeneration. Correct water temperature is important to properly dissolve Potassium Permanganate. At 50 degrees F (10 degrees C) four ounces of Potassium Permanganate can dissolve in one gallon of water. At room temperature (72 degrees F or 22 degrees C) eight ounces will dissolve in one gallon of water.

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" GREENSAND WITH 12-DAY TIMER</b>		
<b>BGS9F</b>	Greensand Filter 9" x 48" Natural Poly Tank 3/4"	37
<b>BGS10F</b>	Greensand Filter 10" x 54" Natural Poly Tank 3/4"	42
<b>BGS12F</b>	Greensand Filter 12" x 52" Natural Poly Tank 3/4"	45
<b>BGS13F</b>	Greensand Filter 13" x 54" Natural Poly Tank 3/4"	47
<b>1" GREENSAND WITH 12-DAY TIMER</b>		
<b>BGS91F</b>	Greensand Filter 9" x 48" Natural Poly Tank 1"	37
<b>BGS101F</b>	Greensand Filter 10" x 54" Natural Poly Tank 1"	42
<b>BGS121F</b>	Greensand Filter 12" x 52" Natural Poly Tank 1"	45
<b>BGS131F</b>	Greensand Filter 13" x 54" Natural Poly Tank 1"	47



## PROFESSIONAL SERIES II

- MANUAL BACKWASH FILTRATION SYSTEMS
- 2510 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	BTF9	BTF10	BTF12	BTF13
FILTER MEDIA CAPACITY (CU. FT.)	1.00	1.50	2.00	2.50
APPROXIMATE FREEBOARD (FROM TOP OF TANK)	18"	18"	16"	16"
UNDERBED "D" GRAVEL REQUIRED (LBS)	10	15	20	30
MINERAL TANK SIZE - POLYGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54
SERVICE FLOW RATE - CONTINUOUS (GPM)	2.2	2.8	4	5
SERVICE FLOW RATE - INTERMITTENT (GPM)	4	5	6	7
BACKWASH FLOW RATE (GPM)	4.0	5.0	7.0	7.0
I.P.S. PIPE SIZE (INCHES)	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
APPROX. SPACE REQUIRED (D x W x H INCHES)	9 x 11 x 55	10 x 12 x 61	12 x 13 x 59	13 x 13 x 61
APPROX. SHIPPING WEIGHT	27	32	36	40

### NOTES

**All units shipped empty.** See Filtration Media Guide for selection of proper media for your filtration application.

Use of a flow control in the Service line is highly recommended.

Caution should always be used in sizing filters! Always choose a unit by first satisfying the Backwash Flow Rate requirement above.

Service Flow Rate shown is based on 5 GPM per square foot of tank area and is optimal for most media. Actual field conditions or media selection may dictate higher or lower rates. TDS, pH, application, and flow rates may also affect the performance of the system. Consult the factory or your field salesperson for application guidance.

Pipe size is dependent on model selected.

## PROFESSIONAL SERIES II

- **MANUAL BACKWASH FILTRATION SYSTEMS**
- **2510 FLECK VALVES**
- **WITH OR WITHOUT DOME HOLE**

### 2510 CONTROL VALVE FEATURES

- Manual lever-operated 3-cycle top-mount control allows controlled upflow backwash, rapid rinse, and downflow service
- Time-tested hydraulically balanced piston, seal, and spacer
- Non-corrosive, UV-resistant Noryl® construction
- Excellent flow rates: 19 gpm continuous, 24 gpm peak

### STANDARD SYSTEM FEATURES

- Polyglass resin tank
- Natural color vessel for easier viewing of mineral height
- 1.05 riser tube minimizing pressure loss
- Bypass valve head with 1.05 riser tube
- High-strength polypropylene distributor basket
- 316 stainless steel bypass isolation valve
- All units shipped empty; use Media Selection Guide

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" DOWNFLOW WITH MANUAL VALVE</b>		
<b>BTF9M</b>	Downflow Filter 9" x 48" Natural Poly Tank 3/4"	25
<b>BTF10M</b>	Downflow Filter 10" x 54" Natural Poly Tank 3/4"	30
<b>BTF12M</b>	Downflow Filter 12" x 52" Natural Poly Tank 3/4"	33
<b>BTF13M</b>	Downflow Filter 13" x 54" Natural Poly Tank 3/4"	35
<b>1" DOWNFLOW WITH MANUAL VALVE</b>		
<b>BTF91M</b>	Downflow Filter 9" x 48" Natural Poly Tank 1"	25
<b>BTF101M</b>	Downflow Filter 10" x 54" Natural Poly Tank 1"	30
<b>BTF121M</b>	Downflow Filter 12" x 52" Natural Poly Tank 1"	33
<b>BTF131M</b>	Downflow Filter 13" x 54" Natural Poly Tank 1"	35
<b>3/4" DOWNFLOW WITH DOME HOLE AND MANUAL VALVE</b>		
<b>BTF9DHM</b>	Downflow Filter 9" x 48" Natural FRP Tank with fill hole 3/4"	25
<b>BTF10DHM</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 3/4"	30
<b>BTF12DHM</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 3/4"	33
<b>BTF13DHM</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 3/4"	35
<b>1" DOWNFLOW WITH DOME HOLE AND MANUAL VALVE</b>		
<b>BTF9DH1M</b>	Downflow Filter 9" x 48" Natural FRP Tank with fill hole 1"	25
<b>BTF10DH1M</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 1"	30
<b>BTF12DH1M</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 1"	33
<b>BTF13DH1M</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 1"	35



## PROFESSIONAL SERIES II

- AUTOMATIC FILTRATION SYSTEMS
- 2510 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	BTF9	BTF10	BTF12	BTF13	BTF14	BTF16
FILTER MEDIA CAPACITY (CU. FT.)	1.00	1.50	2.00	2.50	3.00	4.00
APPROXIMATE FREEBOARD (FROM TOP OF TANK)	18"	18"	16"	16"	26"	27"
UNDERBED "D" GRAVEL REQUIRED (LBS)	10	10	20	30	40	50
MINERAL TANK SIZE - POLYGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
SERVICE FLOW RATE - CONTINUOUS (GPM)	2.2	2.8	4	5	6	7
SERVICE FLOW RATE - INTERMITTENT (GPM)	4	5	6	7	8	10
BACKWASH FLOW RATE (GPM)	4.0	5.0	7.0	7.0	10.0	14.0
I.P.S. PIPE SIZE (INCHES)	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
APPROX. SPACE REQUIRED (D x W x H INCHES)	9 x 11 x 55	10 x 12 x 61	12 x 13 x 59	13 x 13 x 61	14 x 14 x 73	16 x 16 x 73
APPROX. SHIPPING WEIGHT	30	34	38	42	55	78

### NOTES

**All units shipped empty.** See Filtration Media Guide for selection of proper media for your filtration application.

Use of a flow control in the Service line is highly recommended.

Caution should always be used in sizing filters! Always choose a unit by first satisfying the Backwash Flow Rate requirement above.

Service Flow Rate shown is based on 5 GPM per square foot of tank area and is optimal for most media. Actual field conditions or media selection may dictate higher or lower rates. TDS, pH, application, and flow rates may also affect the performance of the system. Consult the factory or your field salesperson for application guidance.

Allow additional headroom of 7.5 inches to remove valve cover for all models.

## PROFESSIONAL SERIES II

- **AUTOMATIC FILTRATION SYSTEMS**
- **2510 FLECK VALVES**
- **AUTOMATIC TIME CLOCK, WITH OR WITHOUT DOME HOLE**

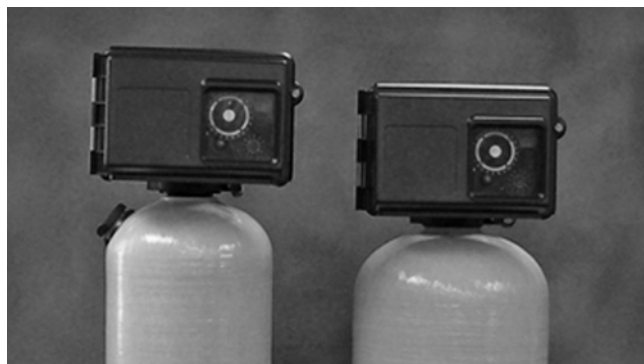
### 2510 CONTROL VALVE FEATURES

- 12-day electromechanical timer allows maximum selection for backwash frequency
- Fully adjustable 3-cycle top-mount control allows controlled upflow backwash, rapid rinse, and downflow service
- Time-tested hydraulically balanced piston, seal, and spacer concept to control service flow and regeneration
- Non-corrosive, UV-resistant Noryl® construction
- Excellent flow rates: 19 gpm continuous, 24 gpm peak
- Backwash capacity handles tanks up to 16" diameter for filter applications
- Environmental cover

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1.05 distributor tube minimizing pressure loss
- High flow distributor screen
- 316 stainless steel bypass isolation valve
- All units shipped empty; use Media Selection Guide

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" DOWNFLOW WITH 12-DAY TIMER</b>		
<b>BTF9F25</b>	Downflow Filter 9" x 48" Natural Poly Tank 3/4"	30
<b>BTF10F25</b>	Downflow Filter 10" x 54" Natural Poly Tank 3/4"	35
<b>BTF12F25</b>	Downflow Filter 12" x 52" Natural Poly Tank 3/4"	38
<b>BTF13F25</b>	Downflow Filter 13" x 54" Natural Poly Tank 3/4"	40
<b>BTF14F25</b>	Downflow Filter 14" x 65" Natural Poly Tank 3/4"	55
<b>BTF16F25</b>	Downflow Filter 16" x 65" Natural Poly Tank 3/4"	78
<b>1" DOWNFLOW WITH 12-DAY TIMER</b>		
<b>BTF91F25</b>	Downflow Filter 9" x 48" Natural Poly Tank 1"	30
<b>BTF101F25</b>	Downflow Filter 10" x 54" Natural Poly Tank 1"	35
<b>BTF121F25</b>	Downflow Filter 12" x 52" Natural Poly Tank 1"	38
<b>BTF131F25</b>	Downflow Filter 13" x 54" Natural Poly Tank 1"	40
<b>BTF141F25</b>	Downflow Filter 14" x 65" Natural Poly Tank 1"	55
<b>BTF161F25</b>	Downflow Filter 16" x 65" Natural Poly Tank 1"	78
<b>3/4" DOWNFLOW WITH DOME HOLE AND 12-DAY TIMER</b>		
<b>BTF9DHF25</b>	Downflow Filter 9" x 48" Natural FRP Tank with fill hole 3/4"	30
<b>BTF10DHF25</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 3/4"	35
<b>BTF12DHF25</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 3/4"	38
<b>BTF13DHF25</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 3/4"	40
<b>BTF14DHF25</b>	Downflow Filter 14" x 65" Natural Poly Tank with fill hole 3/4"	55
<b>BTF16DHF25</b>	Downflow Filter 16" x 65" Natural Poly Tank with fill hole 3/4"	78
<b>1" DOWNFLOW WITH DOME HOLE AND 12-DAY TIMER</b>		
<b>BTF9DH1F25</b>	Downflow Filter 9" x 48" Natural FRP Tank with fill hole 1"	30
<b>BTF10DH1F25</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 1"	35
<b>BTF12DH1F25</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 1"	38
<b>BTF13DH1F25</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 1"	40
<b>BTF14DH1F25</b>	Downflow Filter 14" x 65" Natural Poly Tank with fill hole 1"	55
<b>BTF16DH1F25</b>	Downflow Filter 16" x 65" Natural Poly Tank with fill hole 1"	78





## PROFESSIONAL SERIES II

- GREENSAND FILTRATION SYSTEMS
- 2510 FLECK VALVES
- AUTOMATIC TIME CLOCK

### 2510 CONTROL VALVE FEATURES

- 12-day electromechanical timer allows maximum selection for regeneration frequency
- Fully adjustable 5-cycle top-mount control delivers controlled upflow backwash, downflow brining, and slow rinse, rapid rinse, and downflow service
- Time-tested hydraulically balanced piston, seal, and spacer concept to control service flow and regeneration
- Injector/drain modules containing the brine valve, flow controls, and injector are removeable from the valve exterior
- Chemical resistant PVC injector nozzle and throat
- Non-corrosive, UV-resistant Noryl® valve body

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1.05 distributor tube minimizing pressure loss
- High flow distributor screen
- 10 x 16 potassium feeder tank
- 316 stainless steel bypass isolation valve
- All units shipped empty; use Media Selection Guide

### NOTES

Iron and manganese removal: A recommended dose of 1.5 to 2 ounces of Potassium Permanganate per cubic foot of MTM® or Manganese Greensand is suggested for regeneration. Correct water temperature is important to properly dissolve Potassium Permanganate. At 50 degrees F (10 degrees C) four ounces of Potassium Permanganate can dissolve in one gallon of water. At room temperature (72 degrees F or 22 degrees C) eight ounces will dissolve in one gallon of water.

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" GREENSAND WITH 12-DAY TIMER</b>		
<b>BGS9F25</b>	Greensand Filter 9" x 48" Natural Poly Tank 3/4"	37
<b>BGS10F25</b>	Greensand Filter 10" x 54" Natural Poly Tank 3/4"	42
<b>BGS12F25</b>	Greensand Filter 12" x 52" Natural Poly Tank 3/4"	45
<b>BGS13F25</b>	Greensand Filter 13" x 54" Natural Poly Tank 3/4"	47
<b>1" GREENSAND WITH 12-DAY TIMER</b>		
<b>BGS91F25</b>	Greensand Filter 9" x 48" Natural Poly Tank 1"	37
<b>BGS101F25</b>	Greensand Filter 10" x 54" Natural Poly Tank 1"	42
<b>BGS121F25</b>	Greensand Filter 12" x 52" Natural Poly Tank 1"	45
<b>BGS131F25</b>	Greensand Filter 13" x 54" Natural Poly Tank 1"	47



## PROFESSIONAL HIGH FLOW SERIES

- AUTOMATIC FILTRATION SYSTEMS
- 7000 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	BTF9	BTF10	BTF12	BTF13	BTF14	BTF16
FILTER MEDIA CAPACITY (CU. FT.)	1.00	1.50	2.00	2.50	3.00	4.00
APPROXIMATE FREEBOARD (FROM TOP OF TANK)	18"	18"	16"	16"	26"	27"
UNDERBED "D" GRAVEL REQUIRED (LBS)	10	10	20	30	40	50
MINERAL TANK SIZE - POLYGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
SERVICE FLOW RATE - CONTINUOUS (GPM)	2.2	2.8	4	5	6	7
SERVICE FLOW RATE - INTERMITTENT (GPM)	4	5	6	7	8	10
BACKWASH FLOW RATE (GPM)	4.0	5.0	7.0	7.0	10.0	14.0
I.P.S. PIPE SIZE (INCHES)	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
APPROX. SPACE REQUIRED (D x W x H INCHES)	9 x 11 x 55	10 x 12 x 61	12 x 13 x 59	13 x 13 x 61	14 x 14 x 73	16 x 16 x 73
APPROX. SHIPPING WEIGHT	30	34	38	42	55	78

### NOTES

**All units shipped empty.** See Filtration Media Guide for selection of proper media for your filtration application.

Use of a flow control in the Service line is highly recommended.

Caution should always be used in sizing filters! Always choose a unit by first satisfying the Backwash Flow Rate requirement above.

Service Flow Rate shown is based on 5 GPM per square foot of tank area and is optimal for most media. Actual field conditions or media selection may dictate higher or lower rates. TDS, pH, application, and flow rates may also affect the performance of the system. Consult the factory or your field salesperson for application guidance.

Allow additional headroom of 7.5 inches to remove valve cover for all models.

## PROFESSIONAL HIGH FLOW SERIES

- AUTOMATIC FILTRATION SYSTEMS
- 7000 FLECK VALVES
- AUTOMATIC TIME CLOCK, WITH OR WITHOUT DOME HOLE

### 7000 CONTROL VALVE FEATURES

- Reliable optical electronics eliminate microswitch positioning
- Electronic timer provides quick setup and programming
- Quick connect clips allow easy installation and maintenance
- High-flow bypass valve
- High-flow distribution system
- Non-corrosive, UV-resistant Noryl® construction
- Excellent flow rates: 25 gpm continuous, 35 gpm peak
- Backwash capacity handles tanks up to 24" diameter for filter applications
- Environmental cover NEMA 3R

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1 1/4" high flow distributor tube minimizing pressure loss
- High flow distributor screen
- Bypass isolation valve with 1 1/4" MNPT pipe adapters
- All units shipped empty; use Media Selection Guide

PART NUMBER	DESCRIPTION	WEIGHT
<b>1 1/4" DOWNFLOW WITH 1-99 DAY TIMER</b>		
<b>BTF9F70</b>	Downflow Filter 9" x 48" Natural Poly Tank 1 1/4"	30
<b>BTF10F70</b>	Downflow Filter 10" x 54" Natural Poly Tank 1 1/4"	35
<b>BTF12F70</b>	Downflow Filter 12" x 52" Natural Poly Tank 1 1/4"	38
<b>BTF13F70</b>	Downflow Filter 13" x 54" Natural Poly Tank 1 1/4"	40
<b>BTF14F70</b>	Downflow Filter 14" x 65" Natural Poly Tank 1 1/4"	55
<b>BTF16F70</b>	Downflow Filter 16" x 65" Natural Poly Tank 1 1/4"	78
<b>BTF21F70</b>	Downflow Filter 21" x 62" Natural Poly Tank 1 1/4"	115
<b>BTF24F70</b>	Downflow Filter 24" x 72" Natural Poly Tank 1 1/4"	130
<b>1 1/4" DOWNFLOW WITH DOME HOLE AND 1-99 DAY TIMER</b>		
<b>BTF9DHF70</b>	Downflow Filter 9" x 48" Natural FRP Tank with fill hole 1 1/4"	30
<b>BTF10DHF70</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 1 1/4"	35
<b>BTF12DHF70</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 1 1/4"	38
<b>BTF13DHF70</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 1 1/4"	40
<b>BTF14DHF70</b>	Downflow Filter 14" x 65" Natural Poly Tank with fill hole 1 1/4"	55
<b>BTF16DHF70</b>	Downflow Filter 16" x 65" Natural Poly Tank with fill hole 1 1/4"	78



## PROFESSIONAL HIGH FLOW SERIES

- **AUTOMATIC AERATION FILTRATION SYSTEMS**
- **FLECK 7000 AIR INJECTED OXIDIZER VALVE**
- **AUTOMATIC ELECTRONIC TIME CLOCK, WITH OR WITHOUT DOME HOLE**

### 7000 AIO CONTROL VALVE FEATURES

- Reliable optical electronics eliminate microswitch positioning
- Electronic timer provides quick setup and programming
- Quick connect clips allow easy installation and maintenance

### STANDARD SYSTEM FEATURES

- 7000 AIO Fleck SXT Electronic Control Valve
- Environmental NEMA 3R cover
- Polyglass resin tank
- Bypass valve
- High flow distributor tube, 1-1/4" minimizes pressure loss
- Natural color vessel for easier viewing of mineral height
- 90° inlet elbow with 1" inlet check valve assists in maintaining air pocket
- Upper distributor splash plate maximizes water dispersion through air pocket
- Controller maintains time of day during power outages up to 48 hours

**All units shipped empty. Use filter media selection guide.\***

*\*For selecting appropriate media best suited for specific contaminants to be removed.*

PART NUMBER	DESCRIPTION	WEIGHT
<b>1 1/4" DOWNFLOW WITH 1-99 DAY TIMER</b>		
<b>BTF9F70AIO</b>	Downflow Filter 9" x 48" Natural Poly Tank 1"	30
<b>BTF10F70AIO</b>	Downflow Filter 10" x 54" Natural Poly Tank 1"	35
<b>BTF12F70AIO</b>	Downflow Filter 12" x 52" Natural Poly Tank 1"	38
<b>BTF13F70AIO</b>	Downflow Filter 13" x 54" Natural Poly Tank 1"	40
<b>BTF14F70AIO</b>	Downflow Filter 14" x 65" Natural Poly Tank 1"	55
<b>BTF16F70AIO</b>	Downflow Filter 16" x 65" Natural Poly Tank 1"	78
<b>BTF21F70AIO</b>	Downflow Filter 21" x 62" Natural Poly Tank 1"	115
<b>BTF24F70AIO</b>	Downflow Filter 24" x 72" Natural Poly Tank 1"	130
<b>1 1/4" DOWNFLOW WITH DOME HOLE AND 1-99 DAY TIMER</b>		
<b>BTF9DHF70AIO</b>	Downflow Filter 9" x 48" Natural FRP Tank with fill hole 1"	30
<b>BTF10DHF70AIO</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 1"	35
<b>BTF12DHF70AIO</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 1"	38
<b>BTF13DHF70AIO</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 1"	40
<b>BTF14DHF70AIO</b>	Downflow Filter 14" x 65" Natural Poly Tank with fill hole 1"	55
<b>BTF16DHF70AIO</b>	Downflow Filter 16" x 65" Natural Poly Tank with fill hole 1"	78



The system utilizes an air injection system to remove iron (ferrous or clear water), manganese, and sulfur from the water via both oxidation and filtration. No chemical additives or air compressors are required for operation or regeneration with the system's advanced design.

During system regeneration, an air pocket is created when air is drawn in through an injector located in the brine port. During service, untreated water passes through the air pocket, oxidizing any iron, sulfur, and manganese. The particles are filtered out. Then the system's regeneration cycle backwashes the bed and replaces the air pocket, allowing the process to begin again.

## PRO AIR PROFESSIONAL SERIES

- AUTOMATIC FILTRATION SYSTEMS
- 5600 FLECK VALVES

### SPECIFICATIONS BY MODEL NUMBER

	BAS9	BAS10	BAS12	BAS13
FILTER MEDIA CAPACITY (CU. FT.)	1.00	1.50	2.00	2.50
APPROXIMATE FREEBOARD (FROM TOP OF TANK)	18"	18"	16"	16"
UNDERBED "D" GRAVEL REQUIRED (LBS)	20	20	20	50
MINERAL TANK SIZE - POLYGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54
SERVICE FLOW RATE - CONTINUOUS (GPM)	4	5	6	7
SERVICE FLOW RATE - INTERMITTENT (GPM)	6	7	8	9
BACKWASH FLOW RATE (GPM)	5.0	5.0	7.0	7.0
I.P.S. PIPE SIZE (INCHES)	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
APPROX. SPACE REQUIRED (D x W x H INCHES)	9 x 18 x 55	10 x 19 x 61	12 x 20 x 59	13 x 20 x 61
APPROX. SHIPPING WEIGHT	30	35	40	45

### NOTES

Use of a flow control in the Service line is highly recommended. Caution should always be used in sizing filters! Always choose a unit by first satisfying the Backwash Flow Rate requirement above. Consult the factory or your field salesperson for application assistance. A complete water analysis is required for proper application guidance. Minimum flow for air eductor is 4 gpm from pump for proper air draw.

#### HOW DOES THE PRO AIR SYSTEM WORK?

Raw water is pumped through your system by a submersible pump. Because sufficient flow and pressure are needed for the system to operate effectively, a submersible pump is strongly recommended as a prerequisite to installing the Pro Air system. A pressure gauge in the line after the pump will let you know if proper pressure is being maintained.

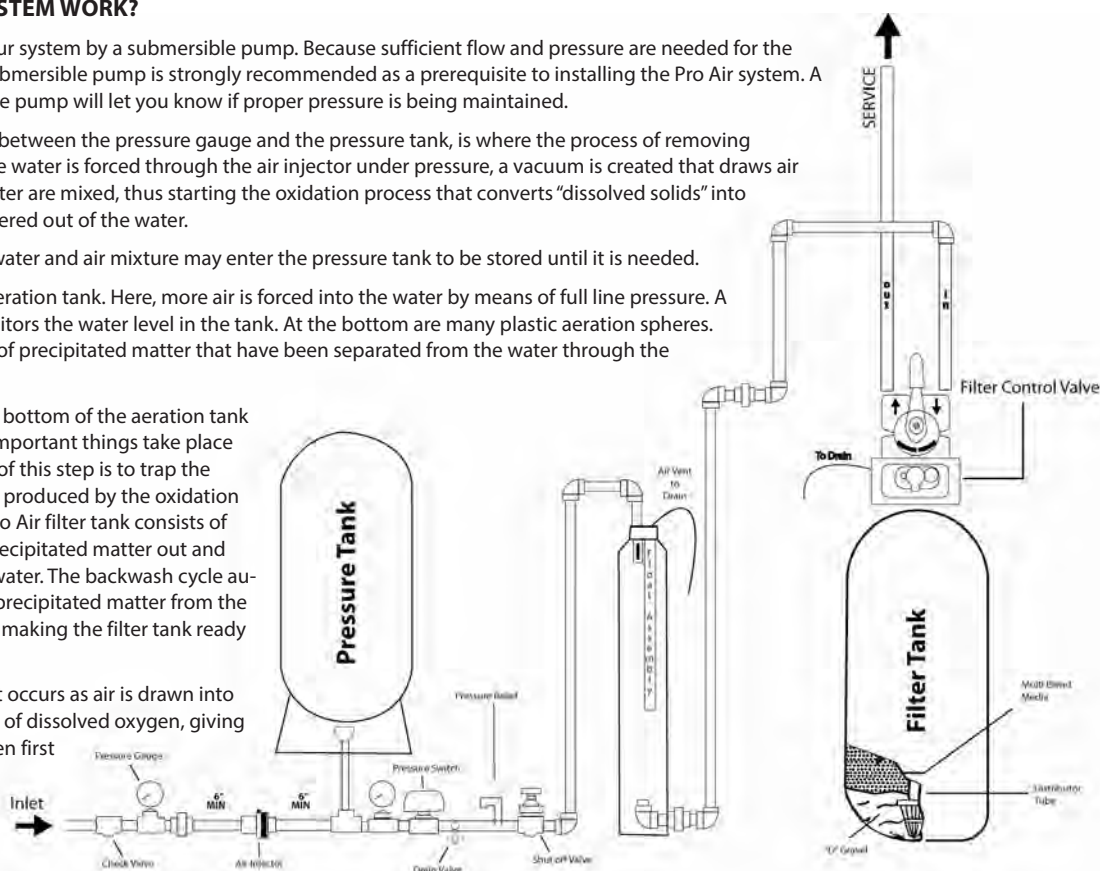
The air injector, placed in the line between the pressure gauge and the pressure tank, is where the process of removing unwanted elements begins. As the water is forced through the air injector under pressure, a vacuum is created that draws air into the water line. The air and water are mixed, thus starting the oxidation process that converts "dissolved solids" into "suspended solids" that can be filtered out of the water.

After leaving the air injector, the water and air mixture may enter the pressure tank to be stored until it is needed.

The next step takes place in the aeration tank. Here, more air is forced into the water by means of full line pressure. A float inside the aeration tank monitors the water level in the tank. At the bottom are many plastic aeration spheres. These spheres build up a coating of precipitated matter that have been separated from the water through the oxidation process.

The water passes out through the bottom of the aeration tank and on to the filter tank. Several important things take place in this tank. The primary purpose of this step is to trap the precipitated matter that has been produced by the oxidation process. The mineral bed of the Pro Air filter tank consists of a multi-blend media that filters precipitated matter out and raises the pH level of the filtered water. The backwash cycle automatically washes accumulated precipitated matter from the media and out through the drain, making the filter tank ready to clean more water.

The natural oxidation process that occurs as air is drawn into the system may contain an excess of dissolved oxygen, giving tap water a milky appearance when first drawn. This excess oxygen will rapidly dissipate, leaving you with refreshing, sparkling clean water.





## PRO AIR PROFESSIONAL SERIES

- **AUTOMATIC FILTRATION SYSTEMS**
- **5600 CONTROL VALVES**
- **AUTOMATIC TIME CLOCK, WITH OR WITHOUT DOME HOLE**

### 5600 CONTROL VALVE FEATURES

- 12-day electromechanical timer allows maximum selection for backwash frequency
- Ruggedly built timer is designed with heavy-duty 3/8" wide plastic gears
- Non-corrosive, UV-resistant Noryl® valve body
- Economical; small annual power consumption, keeps the time and activates the piston/valve mechanics with a single motor
- Designed with double backwash

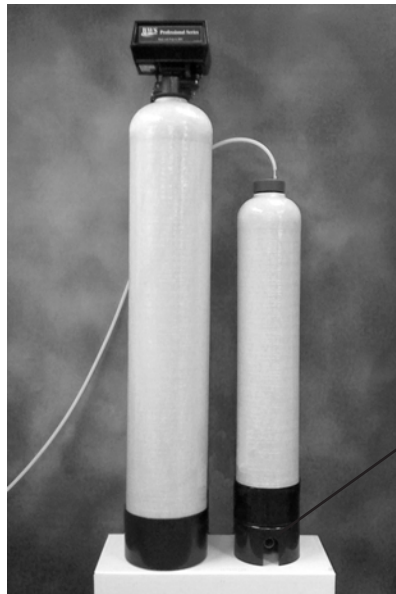
### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1.05 distributor tube minimizing pressure loss
- High flow distributor screen
- 316 stainless steel bypass isolation valve
- All units shipped empty; use Media Selection Guide

### NOTES

The Pro Air Water Treatment System removes sediment, iron, manganese, and sulfur from your water. Your water will be fresh and clear, your plumbing fixtures will be free of rust, and your clothes will look brighter. The Pro Air doesn't use any chemicals in this process. Natural reactions are achieved through aeration and filtration, and these reactions neutralize low pH in addition to completely removing iron, sulfur, and sediment.

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" DOWNFLOW WITH 12-DAY TIMER</b>		
<b>BAS9F</b>	Downflow Filter 9" x 48" Natural Poly Tank 3/4"	30
<b>BAS10F</b>	Downflow Filter 10" x 54" Natural Poly Tank 3/4"	35
<b>BAS12F</b>	Downflow Filter 12" x 52" Natural Poly Tank 3/4"	38
<b>BAS13F</b>	Downflow Filter 13" x 54" Natural Poly Tank 3/4"	40
<b>1" DOWNFLOW WITH 12-DAY TIMER</b>		
<b>BAS91F</b>	Downflow Filter 9" x 48" Natural Poly Tank 1"	30
<b>BAS101F</b>	Downflow Filter 10" x 54" Natural Poly Tank 1"	35
<b>BAS121F</b>	Downflow Filter 12" x 52" Natural Poly Tank 1"	38
<b>BAS131F</b>	Downflow Filter 13" x 54" Natural Poly Tank 1"	40
<b>3/4" DOWNFLOW WITH DOME HOLE AND 12-DAY TIMER</b>		
<b>BAS9DHF</b>	Downflow Filter 9" x 48" Natural Poly Tank with fill hole 3/4"	30
<b>BAS10DHF</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 3/4"	35
<b>BAS12DHF</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 3/4"	38
<b>BAS13DHF</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 3/4"	40
<b>1" DOWNFLOW WITH DOME HOLE AND 12-DAY TIMER</b>		
<b>BAS9DH1F</b>	Downflow Filter 9" x 48" Natural Poly Tank with fill hole 1"	30
<b>BAS10DH1F</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 1"	35
<b>BAS12DH1F</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 1"	38
<b>BAS13DH1F</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 1"	40



The Pro Air features a convenient service outlet.

## VISION SERIES II

- AUTOMATIC FILTRATION SYSTEMS
- 263 PERFORMA VALVE WITH LOGIX CONTROLLER

### SPECIFICATIONS BY MODEL NUMBER

	BTF9	BTF10	BTF12	BTF13	BTF14	BTF16
FILTER MEDIA CAPACITY (CU. FT.)	1.00	1.50	2.00	2.50	3.00	4.00
APPROXIMATE FREEBOARD (FROM TOP OF TANK)	18"	18"	16"	16"	26"	27"
UNDERBED "D" GRAVEL REQUIRED (LBS)	10	10	20	30	40	50
MINERAL TANK SIZE - POLYGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
SERVICE FLOW RATE - CONTINUOUS (GPM)	2.2	2.8	4	5	6	7
SERVICE FLOW RATE - INTERMITTENT (GPM)	4	5	6	7	8	10
BACKWASH FLOW RATE (GPM)	4.0	5.0	7.0	7.0	10.0	14.0
I.P.S. PIPE SIZE (INCHES)	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
APPROX. SPACE REQUIRED (D x W x H INCHES)	9 x 11 x 55	10 x 12 x 61	12 x 13 x 59	13 x 13 x 61	14 x 14 x 73	16 x 16 x 73
APPROX. SHIPPING WEIGHT	30	34	38	42	55	78

### NOTES

**All units shipped empty.** See Filtration Media Guide for selection of proper media for your filtration application.

Use of a flow control in the Service line is highly recommended.

Caution should always be used in sizing filters! Always choose a unit by first satisfying the Backwash Flow Rate requirement above.

Service Flow Rate shown is based on 5 GPM per square foot of tank area and is optimal for most media. Actual field conditions or media selection may dictate higher or lower rates. TDS, pH, application, and flow rates may also affect the performance of the system. Consult the factory or your field salesperson for application guidance.

Allow additional headroom of 7.5 inches to remove valve cover for all models.

## VISION SERIES II

- AUTOMATIC FILTRATION SYSTEMS
- 263 PERFORMA VALVE WITH LOGIX CONTROLLER
- AUTOMATIC TIME CLOCK, WITH OR WITHOUT DOME HOLE

### 263 CONTROL VALVE FEATURES

- Fully adjustable, programmable cycle times
- Non-corrosive, UV-resistant Noryl® valve body
- Three-cycle duraflow valve-disc technology with frictionless non-sliding seal for long life

### LOGIX ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- High efficiency regenerating sequence
- 7 or 99-day regeneration setting
- 24-hour time/day super capacitor backup
- Dry contact programmable signal output

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1.05 distributor tube minimizing pressure loss
- High flow distributor screen
- Bypass with copper sweat adapters
- All units shipped empty; use Media Selection Guide

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" DOWNFLOW WITH 1-99 DAY TIMER</b>		
<b>BTF9P</b>	Downflow Filter 9" x 48" Natural Poly Tank 3/4"	30
<b>BTF10P</b>	Downflow Filter 10" x 54" Natural Poly Tank 3/4"	35
<b>BTF12P</b>	Downflow Filter 12" x 52" Natural Poly Tank 3/4"	38
<b>BTF13P</b>	Downflow Filter 13" x 54" Natural Poly Tank 3/4"	40
<b>BTF14P</b>	Downflow Filter 14" x 65" Natural Poly Tank 3/4"	55
<b>BTF16P</b>	Downflow Filter 16" x 65" Natural Poly Tank 3/4"	78
<b>3/4" DOWNFLOW WITH 1-99 DAY TIMER</b>		
<b>BTF91P</b>	Downflow Filter 9" x 48" Natural Poly Tank 1"	30
<b>BTF101P</b>	Downflow Filter 10" x 54" Natural Poly Tank 1"	35
<b>BTF121P</b>	Downflow Filter 12" x 52" Natural Poly Tank 1"	38
<b>BTF131P</b>	Downflow Filter 13" x 54" Natural Poly Tank 1"	40
<b>BTF141P</b>	Downflow Filter 14" x 65" Natural Poly Tank 1"	55
<b>BTF161P</b>	Downflow Filter 16" x 65" Natural Poly Tank 1"	78
<b>1" DOWNFLOW WITH DOME HOLE AND 1-99 DAY TIMER</b>		
<b>BTF9DHP</b>	Downflow Filter 9" x 48" Natural FRP Tank with fill hole 3/4"	30
<b>BTF10DHP</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 3/4"	35
<b>BTF12DHP</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 3/4"	38
<b>BTF13DHP</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 3/4"	40
<b>BTF14DHP</b>	Downflow Filter 14" x 65" Natural Poly Tank with fill hole 3/4"	55
<b>BTF16DHP</b>	Downflow Filter 16" x 65" Natural Poly Tank with fill hole 3/4"	78
<b>1" DOWNFLOW WITH DOME HOLE AND 1-99 DAY TIMER</b>		
<b>BTF9DH1P</b>	Downflow Filter 9" x 48" Natural FRP Tank with fill hole 1"	30
<b>BTF10DH1P</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 1"	35
<b>BTF12DH1P</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 1"	38
<b>BTF13DH1P</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 1"	40
<b>BTF14DH1P</b>	Downflow Filter 14" x 65" Natural Poly Tank with fill hole 1"	55
<b>BTF16DH1P</b>	Downflow Filter 16" x 65" Natural Poly Tank with fill hole 1"	78



## VISION SERIES II

- GREENSAND FILTRATION SYSTEMS
- 268 PERFORMA VALVE WITH LOGIX CONTROLLER
- AUTOMATIC TIME CLOCK

### 268 CONTROL VALVE FEATURES

- Service flow rates to 25 gpm
- Non-corrosive, UV-resistant Noryl® valve body
- Five-cycle duraflow valve-disc technology with frictionless non-sliding seal for long life

### LOGIX ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- High efficiency regenerating sequence
- 7 or 99-day regeneration setting

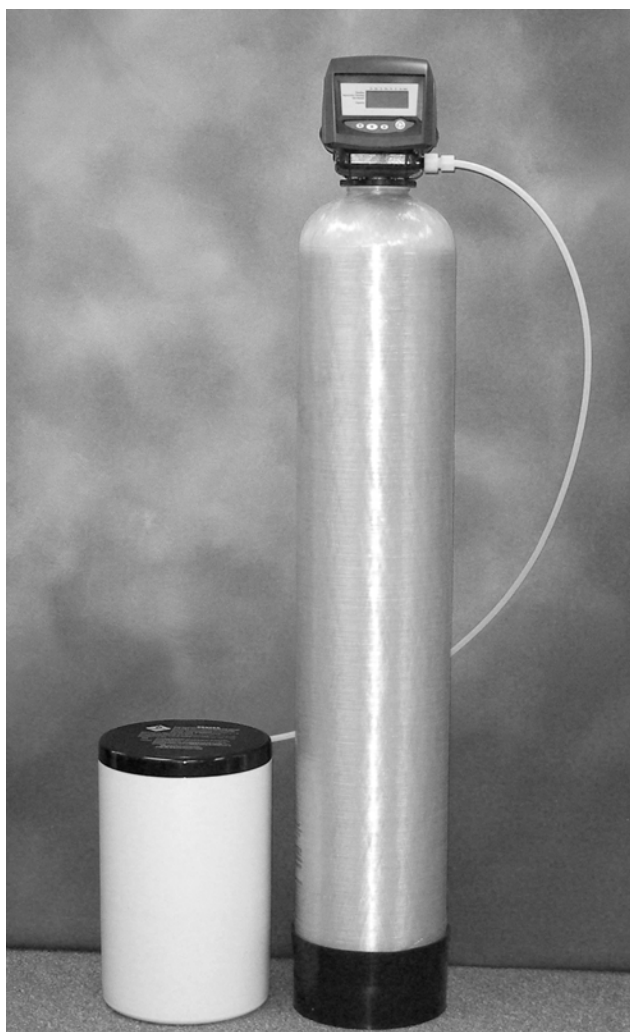
### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1.05 distributor tube minimizing pressure loss
- High flow distributor screen
- 10 x 16 potassium feeder tank
- Bypass with copper piping sweat adapters
- All units shipped empty; use Media Selection Guide

### NOTES

Iron and manganese removal: A recommended dose of 1.5 to 2 ounces of Potassium Permanganate per cubic foot of MTM® or Manganese Greensand is suggested for regeneration. Correct water temperature is important to properly dissolve Potassium Permanganate. At 50 degrees F (10 degrees C) four ounces of Potassium Permanganate can dissolve in one gallon of water. At room temperature (72 degrees F or 22 degrees C) eight ounces will dissolve in one gallon of water.

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" GREENSAND WITH 12-DAY TIMER</b>		
<b>BGS9P2</b>	Greensand Filter 9" x 48" Natural Poly Tank 3/4"	37
<b>BGS10P2</b>	Greensand Filter 10" x 54" Natural Poly Tank 3/4"	42
<b>BGS12P2</b>	Greensand Filter 12" x 52" Natural Poly Tank 3/4"	45
<b>BGS13P2</b>	Greensand Filter 13" x 54" Natural Poly Tank 3/4"	47
<b>1" GREENSAND WITH 12-DAY TIMER</b>		
<b>BGS91P2</b>	Greensand Filter 9" x 48" Natural Poly Tank 1"	37
<b>BGS101P2</b>	Greensand Filter 10" x 54" Natural Poly Tank 1"	42
<b>BGS121P2</b>	Greensand Filter 12" x 52" Natural Poly Tank 1"	45
<b>BGS131P2</b>	Greensand Filter 13" x 54" Natural Poly Tank 1"	47



## SPECIALIST SERIES

- AUTOMATIC FILTRATION SYSTEMS
- CLEARWATER 505 VALVES

### SPECIFICATIONS BY MODEL NUMBER

	BTF9	BTF10	BTF12	BTF13	BTF14	BTF16
FILTER MEDIA CAPACITY (CU. FT.)	1.00	1.50	2.00	2.50	3.00	4.00
APPROXIMATE FREEBOARD (FROM TOP OF TANK)	18"	18"	16"	16"	26"	27"
UNDERBED "D" GRAVEL REQUIRED (LBS)	10	10	20	30	40	50
MINERAL TANK SIZE - POLYGLASS (INCHES)	9 x 48	10 x 54	12 x 52	13 x 54	14 x 65	16 x 65
SERVICE FLOW RATE - CONTINUOUS (GPM)	2.2	2.8	4	5	6	7
SERVICE FLOW RATE - INTERMITTENT (GPM)	4	5	6	7	8	10
BACKWASH FLOW RATE (GPM)	4.0	5.0	7.0	7.0	10.0	14.0
I.P.S. PIPE SIZE (INCHES)	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1	3/4 or 1
APPROX. SPACE REQUIRED (D x W x H INCHES)	9 x 11 x 55	10 x 12 x 61	12 x 13 x 59	13 x 13 x 61	14 x 14 x 73	16 x 16 x 73
APPROX. SHIPPING WEIGHT	30	34	38	42	55	78

**All units shipped empty.** See Filtration Media Guide for selection of proper media for your filtration application.

Use of a flow control in the Service line is highly recommended.

Caution should always be used in sizing filters! Always choose a unit by first satisfying the Backwash Flow Rate requirement above.

Service Flow Rate shown is based on 5 GPM per square foot of tank area and is optimal for most media. Actual field conditions or media selection may dictate higher or lower rates. TDS, pH, application, and flow rates may also affect the performance of the system. Consult the factory or your field salesperson for application guidance.

Allow additional headroom of 7.5 inches to remove valve cover for all models.

## SPECIALIST SERIES

- AUTOMATIC FILTRATION SYSTEMS
- CLEARWATER 505 VALVES
- AUTOMATIC TIME CLOCK, WITH OR WITHOUT DOME HOLE

### CLEARWATER 505 CONTROL VALVE FEATURES

- 10 selectable preprogrammed regeneration cycles
- Double backwash offers optimum regeneration efficiency
- Externally accessible injector and screen for ease of service
- One-piece seal and spacer cartridge simplifies replacement

### 505 ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- DC drive
- High efficiency regenerating sequence
- Capacitor power backup

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1.05 distributor tube minimizing pressure loss
- High flow distributor screen
- Bypass valve with brass sweat adapters
- All units shipped empty; use Media Selection Guide

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" DOWNFLOW WITH 1-99 DAY TIMER</b>		
<b>BTF9C</b>	Downflow Filter 9" x 48" Natural Poly Tank 3/4"	30
<b>BTF10C</b>	Downflow Filter 10" x 54" Natural Poly Tank 3/4"	35
<b>BTF12C</b>	Downflow Filter 12" x 52" Natural Poly Tank 3/4"	38
<b>BTF13C</b>	Downflow Filter 13" x 54" Natural Poly Tank 3/4"	40
<b>BTF14C</b>	Downflow Filter 14" x 65" Natural Poly Tank 3/4"	55
<b>BTF16C</b>	Downflow Filter 16" x 65" Natural Poly Tank 3/4"	78
<b>3/4" DOWNFLOW WITH 1-99 DAY TIMER</b>		
<b>BTF91C</b>	Downflow Filter 9" x 48" Natural Poly Tank 1"	30
<b>BTF101C</b>	Downflow Filter 10" x 54" Natural Poly Tank 1"	35
<b>BTF121C</b>	Downflow Filter 12" x 52" Natural Poly Tank 1"	38
<b>BTF131C</b>	Downflow Filter 13" x 54" Natural Poly Tank 1"	40
<b>BTF141C</b>	Downflow Filter 14" x 65" Natural Poly Tank 1"	55
<b>BTF161C</b>	Downflow Filter 16" x 65" Natural Poly Tank 1"	78
<b>1" DOWNFLOW WITH DOME HOLE AND 1-99 DAY TIMER</b>		
<b>BTF9DHC</b>	Downflow Filter 9" x 48" Natural FRP Tank with fill hole 3/4"	30
<b>BTF10DHC</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 3/4"	35
<b>BTF12DHC</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 3/4"	38
<b>BTF13DHC</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 3/4"	40
<b>BTF14DHC</b>	Downflow Filter 14" x 65" Natural Poly Tank with fill hole 3/4"	55
<b>BTF16DHC</b>	Downflow Filter 16" x 65" Natural Poly Tank with fill hole 3/4"	78
<b>1" DOWNFLOW WITH DOME HOLE AND 1-99 DAY TIMER</b>		
<b>BTF9DH1C</b>	Downflow Filter 9" x 48" Natural FRP Tank with fill hole 1"	30
<b>BTF10DH1C</b>	Downflow Filter 10" x 54" Natural Poly Tank with fill hole 1"	35
<b>BTF12DH1C</b>	Downflow Filter 12" x 52" Natural Poly Tank with fill hole 1"	38
<b>BTF13DH1C</b>	Downflow Filter 13" x 54" Natural Poly Tank with fill hole 1"	40
<b>BTF14DH1C</b>	Downflow Filter 14" x 65" Natural Poly Tank with fill hole 1"	55
<b>BTF16DH1C</b>	Downflow Filter 16" x 65" Natural Poly Tank with fill hole 1"	78





## SPECIALIST SERIES

- GREENSAND FILTRATION SYSTEMS
- CLEARWATER 505 VALVE
- AUTOMATIC TIME CLOCK

### CLEARWATER 505 CONTROL VALVE FEATURES

- 20 selectable preprogrammed regeneration cycles
- Double backwash offers optimum regeneration efficiency
- Externally accessible injector and screen for ease of service
- One-piece seal and spacer cartridge simplifies replacement
- Treated water regeneration refill
- Pre- or post-regeneration brine refill selectable

### 505 ELECTRONIC CONTROLLER FEATURES

- Simple, economical 12-volt operation
- DC drive
- High efficiency regenerating sequence
- 1-28 days override
- Capacitor power backup
- 28-day variable reserve
- Automatic capacity calculations

### STANDARD SYSTEM FEATURES

- Natural polyglass media tank allows easy viewing of media performance during system cycles
- 1.05 distributor tube minimizing pressure loss
- High flow distributor screen
- 10 x 16 potassium feeder tank
- 316 stainless steel bypass isolation valve
- All units shipped empty; use Media Selection Guide

### NOTES

Iron and manganese removal: A recommended dose of 1.5 to 2 ounces of Potassium Permanganate per cubic foot of MTM® or Manganese Greensand is suggested for regeneration. Correct water temperature is important to properly dissolve Potassium Permanganate. At 50 degrees F (10 degrees C) four ounces of Potassium Permanganate can dissolve in one gallon of water. At room temperature (72 degrees F or 22 degrees C) eight ounces will dissolve in one gallon of water.

PART NUMBER	DESCRIPTION	WEIGHT
<b>3/4" GREENSAND WITH 1-99 DAY TIMER</b>		
<b>BGS9C</b>	Greensand Filter 9" x 48" Natural Poly Tank 3/4"	37
<b>BGS10C</b>	Greensand Filter 10" x 54" Natural Poly Tank 3/4"	42
<b>BGS12C</b>	Greensand Filter 12" x 52" Natural Poly Tank 3/4"	45
<b>BGS13C</b>	Greensand Filter 13" x 54" Natural Poly Tank 3/4"	47
<b>1" GREENSAND WITH 1-99 DAY TIMER</b>		
<b>BGS91C</b>	Greensand Filter 9" x 48" Natural Poly Tank 1"	37
<b>BGS101C</b>	Greensand Filter 10" x 54" Natural Poly Tank 1"	42
<b>BGS121C</b>	Greensand Filter 12" x 52" Natural Poly Tank 1"	45
<b>BGS131C</b>	Greensand Filter 13" x 54" Natural Poly Tank 1"	47



## ARSENIC REMEDIATION EQUIPMENT

- **SOLMETEX NPXTRA**
- **POINT-OF-ENTRY**

## SOLMETEX NPXTRA FEATURES

The npXtra POE system eliminates arsenic. The heart of the npXtra system is an advanced, NSF/ANSI 61-certified and approved hydrous iron oxide impregnated resin. This resin efficiently and safely binds arsenic and never needs backwashing, providing you with several advantages:

- No connection to sewer or septic is required.
- The system is always in service.
- No wasted water.
- Installation is easy.
- Simple and reliable hardware.
- No arsenic-laden waste is generated.
- Flow rates from 0 - 25 GPM.

The npXtra Point-of-Entry (POE) program assures whole-house arsenic elimination. npXtra is a total, comprehensive solution (sampling, performance testing, technical support, and disposal) to take care of all the details and eliminate arsenic concerns. npXtra POE is a whole house program — all the water in the household is treated, not just one faucet.

Included in the program:

- A two-column, 100% redundant, professionally engineered state-of-the-art system
- Peace of mind — initial and follow-up arsenic testing at the SolmeteX lab, assuring that the system is always working.

*How do I know the system is working?*

A sample kit is sent directly to you at intervals based on the water chemistry. Using easy-to-follow instructions, you simply fill the sample bottle and return it using a pre-paid, pre-addressed return label. SolmeteX will continue to monitor performance by sending a sample kit to you as required by the water chemistry.

*Who does the testing?*

Using state-of-the-art technology, SolmeteX chemists will analyze the sample to assure that the system is working at the optimum level.

*Why does the npXtra system have two columns?*

The system is engineered with 100% backup to provide extra confidence. When the testing program shows that the first column is exhausted, the second column is still treating the drinking water, providing full protection between testing periods.

PART NUMBER	DESCRIPTION	WEIGHT
<b>POE09*</b>	Whole House Standard System 9" x 48" 0-7.5 GPM 2CF	130
<b>POE10*</b>	Whole House Standard System 10" x 54" 0-10 GPM 3CF	186
<b>POE12*</b>	Commercial System 12" x 52" 15 GPM 4.6CF	280
<b>POE14*</b>	Commercial System 14" x 54" 25 GPM 7CF	406
<b>POE24**</b>	Commercial System 24" x 50" 25 GPM 14CF	871
*2 minute contact time intermittent flow **4 minute contact time continuous flow		
<b>RMT09</b>	Replacement SolmeteX 0-7.5 GPM Arsenic Unit 1 CU/FT	65
<b>RMT10</b>	Replacement SolmeteX 0-10 GPM Arsenic Unit 1.5 CU/FT	93
<b>RMT12</b>	Replacement SolmeteX 0-15 GPM Arsenic Unit 2.3 CU/FT	140
<b>RMT14</b>	Replacement SolmeteX 25 GPM Arsenic Unit 3.5 CU/FT	203
<b>RMT24</b>	Replacement SolmeteX 25 GPM Arsenic Unit 7 CU/FT	435
<b>SPECIATIONKIT</b>	SolmeteX Arsenic Speciation Kit	1
<b>LAYNERT</b>	Arsenic Removal Media	50



## ARSENIC REMEDIATION EQUIPMENT

- **SOLMETEX NPXTRA**
- **POINT-OF-USE**

### SOLMETEX NPXTRA FEATURES

The npXtra POU system eliminates arsenic. The heart of the npXtra system is an advanced, NSF/ANSI 61-certified and approved hydrous iron oxide impregnated resin. This resin efficiently and safely binds arsenic and never needs backwashing. System advantages include:

- Convenient 6" x 18" and 8" x 35" column.
- No connection to sewer or septic is required.
- The system is always in service.
- No wasted water.
- Installation is easy.
- Simple and reliable hardware.
- No arsenic-laden waste is released at the faucet.

The npXtra Point-of-Use (POU) program assures arsenic elimination to the faucet. npXtra is a total, comprehensive solution (sampling, performance testing and reporting, technical support, and disposal) to take care of all the details and eliminate arsenic concerns. npXtra POU treats the entire cold-water flow, so no additional faucet is required. The 2-gpm system provides total arsenic protection with minimal interference to your kitchen.

Included in the program:

- An under-the-sink column sized to provide 100% arsenic protection
- Peace of mind — initial and follow-up arsenic testing at the SolmeteX lab, assuring that the system is always working.

#### How do I know the system is working?

A sample kit is sent directly to you at intervals based on the water chemistry. Using easy-to-follow instructions, you simply fill the sample bottle and return it using a pre-paid, pre-addressed return label. SolmeteX will continue to monitor performance by sending a sample kit to you as required by the water chemistry.

PART NUMBER	DESCRIPTION	WEIGHT
<b>POU06</b>	Under the Sink System 6" x 18" 0-2 GPM .16CF	17
<b>POU08</b>	Under the Sink/Refrigerator System 8" x 35" 0-2 GPM .5CF	38
<b>POU06R</b>	Under the Sink Replacement Tank w/ Media 6" x 18" .16CF	17
<b>POU08R</b>	Under the Sink Replacement Tank w/ Media 8" x 35" .16CF	38



#### Who does the testing?

Using state-of-the-art technology, SolmeteX chemists will analyze the sample to assure that the system is working at the optimum level.

#### Why don't I need a separate faucet?

The SolmeteX POU arsenic treatment system is designed to treat all of the water at a single faucet within a household. Sized to fit under the sink, the system works at a maximum flow rate of 2 gallons per minute. This high throughput eliminates the need to install a separate faucet for drinking water, as required for some other arsenic elimination systems. All the water for the cold water line is arsenic-free, including water used for drinking, cooking, and washing purposes.

## RADON REMEDIATION EQUIPMENT

- RADONAWAY
- AIRRAIDER™ SYSTEMS

AiRaider™ Systems strip the following from the water:

- Radon
- Benzene
- Dichloroethane
- Trichloroethylene
- Vinyl Chloride
- Carbon Dioxide (elevates pH)
- Methyl-t-butyl (MTBE)
- Carbon Tetrachloride
- Toluene
- Trihalomethanes (THMs)
- Hydrogen Sulfide

#### AiRaider™ EZ<sup>95</sup>

Negative Pressure - The EZ<sup>95</sup>'s unique design maintains a negative pressure to avoid radon leakage into the living area.

Fail Safe - An audible alarm warns of potential overflow by sounding if the water level is too high; the alarm also sounds if the aeration process is interrupted.

Total Package - The EZ<sup>95</sup>'s fully integrated internal repressurization pump makes installation easy. No external repressurization system necessary.



PART NUMBER	DESCRIPTION
28292	Radonaway Airraider EZ95 115 Volt
28196	Radonaway Airraider 321 115 Volt
28172	Radonaway Airraider 433-3/4 115 Volt
28181	Radonaway Airraider 433-3/4 230 Volt
28180	Radonaway Airraider 433-1 115 Volt
28182	Radonaway Airraider 433-1 230 Volt
230101	XP 151 Inline Fan 4" duct. Max Operational Static Press - 1.4" w/c. Max CFM at 0" w/c - 180CFM
230111	XP 201 Inline Fan 4" duct. Max Operational Static Press - 1.7" w/c. Max CFM at 0" w/c - 125CFM
230191	XP 261 Inline Fan 6" duct. Max Operational Static Press - 1.6" w/c. Max CFM at 0" w/c - 180CFM
230071	GP 201 Inline Fan 3" duct. Max Operational Static Press - 1.8" w/c. Max CFM at 1" w/c - 82CFM
230061	GP 301 Inline Fan 3" duct. Max Operational Static Press - 2.4" w/c. Max CFM at 1" w/c - 92CFM
230091	GP 401 Inline Fan 3" duct. Max Operational Static Press - 3.0" w/c. Max CFM at 1" w/c - 93CFM
230051	GP 501 Inline Fan 3" duct. Max Operational Static Press - 3.8" w/c. Max CFM at 1" w/c - 95CFM
230031	GP 500 Inline Fan 3" duct. Max Operational Static Press - 3.9" w/c. Max CFM at 1" w/c - 88CFM
230291	RP 140 Inline Fan 4" duct. Max Operational Static Press - .8" w/c. Max CFM at 0" w/c - 134CFM
230301	RP 145 Inline Fan 4" duct. Max Operational Static Press - 1.7" w/c. Max CFM at 0" w/c - 173CFM
230321	RP 260 Inline Fan 6" duct. Max Operational Static Press - 1.5" w/c. Max CFM at 0" w/c - 275CFM
230331	RP 265 Inline Fan 6" duct. Max Operational Static Press - 2.2" w/c. Max CFM at 0" w/c - 327CFM
28208	RP 380 Inline Fan 8" duct. Max Operational Static Press - 2.0" w/c. Max CFM at 0" w/c - 510CFM

#### AiRaider™ 321

The AiRaider 321 model combines spray and diffused bubble aeration for the best quality and results at a value price. This model was developed for quick and easy installation and is ideal when the more powerful 433 is not required.



#### AiRaider™ 433

The AiRaider 433 successfully and dependably removes radon and VOCs from well water through a unique multi-stage aeration method.



MODEL	BLOWER	SYSTEM VOLTAGE	PLUMBING CONNECTION*	RECOMMENDED FLOW RATE (GPM)	RADON REDUCTION	TANK DIMENSIONS
433	.5 hp, 15V/5.0 amp or 230/2.5 amp	115V or 230 V	3/4"	Up to 15*	Up to 99%+	35"H x 31.25"W x 19.75"L
433-1	.5 hp, 15V/5.0 amp or 230/2.5 amp	115V or 230 V	1"	Up to 20*	Up to 99%+	35"H x 31.25"W x 19.75"L
321	.11 hp, 115V/1.2 amp or 230/2.5 amp	115V	3/4"	Up to 10	Up to 95%+	35"H x 31.25"W x 19.75"L
EZ <sup>95</sup>	.21 hp, 115V/5.7 amp	115V	3/4"	Up to 7	Up to 95%+	36.37"H x 25.65"W x 25.71"L*

\*bypass not included

\*includes internal pump

## • COMMON SYSTEM COMPONENTS

<b>DISTRIBUTOR TUBE RISER PIPE WITH BASKET</b>	
PART NO.	DESCRIPTION
D5022	13/16" x 48" PVC W/BELLED BASKET
D5024	13/16" x 54" PVC W/BELLED BASKET
D5032	1.05" x 48" PVC W/BELLED BASKET
D5034	1.05" x 54" PVC W/BELLED BASKET
D5034C	1.05" x 54" PVC W/STACK BASKET
D5036	1.05" x 65" PVC W/BELLED BASKET
D5036C	1.05" x 65" PVC W/STACK BASKET
D5038	1.05" x 65" CPVC W/BELLED BASKET
D5007	1-1/2" x 72" PVC W/STACK BASKET
K4561580	32MM x 72" PVC W/STACK BASKET
1001986	RISER ADAPTER 13/16" TO 1.05"
<b>TURBULATOR DISTRIBUTOR ASSEMBLIES</b>	
DT24	8 X 44" TANK W/ 3/4CF RESIN
DT32	9 X 48" TANK W/ 1CF RESIN
DT48	10 X 54" TANK W/ 1-1/2CF RESIN
DT64	12 X 52" TANK W/ 2CF RESIN
<b>DISTRIBUTOR SCREEN BASKETS</b>	
D5103P	UPPER SCREEN 13/16" .010 BAJONET LOCK
D5120	UPPER SCREEN 1.05" .010 GLUE IN
D5120F	UPPER SCREEN 1.05" .010 BAJONET LOCK
K451881802	UPPER SCREEN 13/16" .010 BAJONET LOCK FLECK (RED)
K451384902	UPPER SCREEN 1.05" .008 BAJONET LOCK FLECK (RED)
K4518280	UPPER SCREEN 1.05" .010 BAJONET LOCK FLECK (GREY)
K4513700	UPPER SCREEN 1.05" .010 9000 VALVE
K4513748	ATTACHMENT SCREW FOR K4513700 (2 REQ'D)
D5110P	LOWER DISTRIBUTOR COLLECTOR 13/16"
D5110PP	LOWER DISTRIBUTOR COLLECTOR 1.05"
D121204	LOWER DISTRIBUTOR COLLECTOR STACKED 1.05"

<b>AIR INJECTORS / AIR VENTS</b>	
PART NO.	DESCRIPTION
K7209	1" FXF PVC AIR INJECTOR W/ AUTO BYPASS
K7210	1" MXM CELON AIR INJECTOR (WATERITE)
K7225	1" FXF PVC AIR INJECTOR
K722501	SCHRADER AIR INJECTOR 1/4" MNPT
K7210CV	MICRONIZER AIR CHECK (WATERITE)
K7215	HONEYWELL BRAUKMAN AIR VENT 1/8" MNPT
<b>DRAIN LINE AIR GAPS</b>	
211211	GAP-A-FLO
MRDRAIN	MR. DRAIN
<b>POLYETHYLENE DRAIN LINE TUBING</b>	
I8045	5/8" OD X 1/2" ID BLACK 100' ROLL
I8046	5/8" OD X 1/2" ID CLEAR 100' ROLL
<b>TANK ADAPTERS AND DOME HOLE PLUGS</b>	
C2211	4-1/2" X 2-1/2" ADAPTER PARK TA-4525
C5148212	4" X 2-1/2" ADAPTER STRUCTURAL CH4821-2
C5110566	6" SNA FLANGE BY 4" -8UN ADAPTER W/ HARDWARE
C5110746	DOME HOLE PLUG NORYL FOR POLY TANKS
C514000	DOME HOLE PLUG PVC FOR FRP TANKS
<b>SEALANTS</b>	
I1050	TEFLON TAPE 12" X 520'
I1020	SILICONE LUBRICANT 2 OZ JAR
K4516174	SILICONE LUBRICANT 2 OZ TUBE



## SYSTEM ACCESSORIES AND COMPONENTS

- COMMON SYSTEM PARTS
- FLOW CONTROLS

PVC Pipe Thread (Specify FLOW RATE When Ordering)

Part #	Pipe Size	Flow Range GPM	Insert/Qty.
V2001	1/2" MNPT x MNPT	0.25 - 3.5	V7101 / 2 - 1
V2002	3/4" MNPT x MNPT	0.25 - 3.5	V7101 / 2 - 1
V2002B	3/4" MNPT x MNPT	5 - 10	V7103 1
V2003	1" MNPT x MNPT	5 - 10	V7103 1
V2003A	1" MNPT x MNPT	12, 15, 20	V7103 1
V2004	1-1/4" MNPT x MNPT	10 - 20	V7103 2
V2005A	1-1/2" MNPT x MNPT	20 - 40	V7103 4
V2006	2" MNPT x MNPT	35 - 70	V7103 7
V2007	2-1/2" MNPT x MNPT	45 - 90	V7103 9
V2008	3" MNPT x MNPT	70 - 140	V7103 14
V2009	4" MNPT x MNPT	120 - 250	V7103 25
V2010	6" MNPT x MNPT	270 - 540	V7103 54



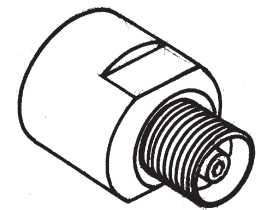
PVC Threaded

Specify FLOW RATE and FLOW DIRECTION (When Ordering)

V7018	1/2" MNPT x FNPT	0.25-3.5	V7102 1
	OR 1/2" FNPT x MNPT	0.25-3.5	V7102 1

PVC Socket Weld (Specify FLOW RATE When Ordering)

V2012	3/4" SOC x SOC	0.25-3.5	V7101 / 2 - 1
V2013	1" SOC x SOC	5-10	V7101 / 2 - 1
V2013A	1" SOC x SOC	12, 15, 20	V7103 1
V2014	1-1/4" SOC x SOC	10-20	V7103 2
V2015	1-1/2" SOC x SOC	20-40	V7103 4
V2016	2" SOC x SOC	35-70	V7103 7
V2017	2-1/2" SOC x SOC	45-90	V7103 9
V2018	3" SOC x SOC	70-140	V7103 14
V2019	4" SOC x SOC	125-250	V7103 25
V2020	6" SOC x SOC	270-540	V7103 54



V7018

PVC Flanged (Specify FLOW RATE When Ordering)

V2030	2" FLG x FLG	6" F to F	35-70	V7103 7
V2032	3" FLG x FLG	6" F to F	70-140	V7103 14
V2033	4" FLG x FLG	6" F to F	125-250	V7103 25
V2034	6" FLG x FLG	8-1/2" F to F	270-540	V7103 54



PVC Flanged

ALL FLOW CONTROLS INCLUDE INSERT BUTTONS INSTALLED



## SYSTEM ACCESSORIES AND COMPONENTS

- COMMON SYSTEM PARTS
- FLOW CONTROLS

Brass (Specify FLOW RATE When Ordering)

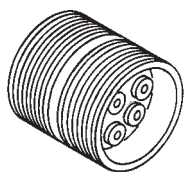


Part #	Pipe Size	Flow Range GPM	Insert / Qty.
V7019	3/4" MNPT x MNPT	0.25 - 3.5	V7101 / 2 - 1
V7019C	3/4" MNPT x MNPT	5 - 10	V7103
V7021	1" MNPT x MNPT	5 - 10	V7103 - 1

Stainless Steel (Specify FLOW RATE When Ordering)

V7029	3/4" FNPT x FNPT	25 - 10	V7103 1
V7021A	1" FNPT x FNPT	12, 15, 20	V7103 1

Steel (Specify FLOW RATE When Ordering)



V7022	2" MNPT x MNPT	15 - 30	V7103 2
V7023	3" MNPT x MNPT	35 - 70	V7103 4

Insert Buttons Made of BUNA-N Material

PART # V7101

V7101025	#38A347	0.25 gpm
V7101040	#38A447	0.40 gpm
V7101070	#38A547	0.70 gpm
V7101090	#38A647	0.90 gpm
V7101120	#38A747	1.20 gpm
V710114	#38A752	1.40 gpm
V710116	#38A847	1.60 gpm
V710118	#38A852	1.80 gpm
V710120	#38A857	2.00 gpm



V7101

PART # V7102

V710222	#38B952	2.2 gpm
V710225	#38B957	2.5 gpm
V710230	#38B1057	3.0 gpm
V710240	#38B10623	4.0 gpm



V7102

PART # V7103

V710305	#58B13535	5.0 gpm	Blue
V710306	#58B14568	6.0 gpm	Red
V710307	#58B15568	7.0 gpm	D. Brown
V710308	#58B16568	8.0 gpm	Green
V710309	#58B16602	9.0 gpm	White / Tan
V710310	#58B17602	10.0 gpm	Orange
V710312	#78B2058	12.0 gpm	Black
V710315	#78B2462	15.0 gpm	Black
V710320	#78B2474	20.0 gpm	Black



V7103

## PROFESSIONAL SERIES

- ASSEMBLIES AND SERVICE EQUIPMENT
- CONTROL VALVES
- FLECK VALVE PARTS

PART NO.	DESCRIPTION
<b>VALVES COMPLETE LESS BYPASS</b>	
<b>KT56FTC5</b>	5600 FILTER 12-DAY W/COVER, 120V 5GPM DLFC
<b>KT56FTC6</b>	5600 FILTER 12-DAY W/COVER, 120V 6GPM DLFC
<b>KT56FTC7</b>	5600 FILTER 12-DAY W/COVER, 120V 7GPM DLFC
<b>KT56PL24A</b>	5600/1600 SOFT METER 24K LABEL W/COVER 2.4 DLFC
<b>KT56PL32A</b>	5600/1600 SOFT METER 32K LABEL W/COVER 3.0 DLFC
<b>KT56PL48A</b>	5600/1600 SOFT METER 48K LABEL W/COVER 4.0 DLFC
<b>KT56STC24</b>	5600 SOFT 12-DAY W/COVER 120V 2.4GPM DLFC
<b>KT56STC32</b>	5600 SOFT 12-DAY W/COVER 120V 3GPM DLFC
<b>KT56STC48</b>	5600 SOFT 12-DAY W/COVER 120V 4GPM DLFC
<b>POWER HEADS (LESS COVER)</b>	
<b>K456035313</b>	5600 POWER HEAD L STYLE 12 DAY SOFTENER
<b>K456035313F</b>	5600 POWER HEAD L STYLE 12 DAY FILTER
<b>K456035413</b>	5600 METER POWER HEAD L BACK STD RANGE
<b>COVERS</b>	
<b>K4560226</b>	5600 L-BRACKET HEAD
<b>K4560232110</b>	2510, 2700, 2750, 2850, 9000, 9500
<b>K456021902</b>	ENVIRONMENTAL COVER
<b>BYPASS VALVES AND YOKES</b>	
<b>K4560040SS</b>	5600 3/4 STAINLESS STEEL
<b>K4560041SS</b>	5600 1 STAINLESS STEEL
<b>K456004904</b>	1 PLASTIC BYPASS W/ 3/4 PLASTIC YOKE
<b>K4560049</b>	1 PLASTIC BYPASS ONLY
<b>K4541027</b>	3/4 FNPT SS YOKE
<b>K4541026</b>	1 FNPT SS YOKE
<b>K451370802</b>	3/4 SWEAT BRASS
<b>K451370803</b>	1 SWEAT BRASS
<b>K451870602</b>	3/4 MNPT PLASTIC
<b>K4518706</b>	1 MNPT PLASTIC
<b>SKIPPER WHEEL ASSEMBLIES</b>	
<b>K4514860</b>	SKIPPER WHEEL ASSY, 7-DAY
<b>K4514381</b>	SKIPPER WHEEL ASSY, 12-DAY

PART NO.	DESCRIPTION		
TIMER ASSEMBLIES			
K456030313	3200 7-DAY TIMER W/ STF-120/60		
K456030413	3200 12-DAY TIMER W/ STF-120/60		
K456030513	3230 DEMAND TIMER W/ STF-120/60 IMMEDIATE		
K456030613	3210 DELAY METER TIMER W/ STF-120/60		
K456030713	3220 REGENERATION W/ STF-120/60 IMMEDIATE		
K456037613	9000 TIMER 1/30 RPM (1 VALVE) (2 MIN/PIN)		
TIMER MOTORS			
K4511590	120 VOLT/60 Hz 3600 SERIES		
K4518743	120 VOLT/60 Hz F/5600 & 3200 TIMER		
K4519569	24 VOLT/ 60 Hz F/5600 & 3200 TIMER		
SERVICE EQUIPMENT			
K4516516	STUFFER 2850/9500		
K4517623	PULLER 2850/9500		
K4511098	STUFFER 1500/2500/2700/2750		
K4513061	PULLER 1500/2500/2700/2750		
K4512682	PULLER (3900 UPPER), 2900, 3150		
K4512683	STUFFER (3900 LOWER), 2900, 3150		
K4512763	STUFFER 5600/9000		
K4512874	SEAL HOOK		
K4513759	TOOL FOR 5600 DLFC		
INJECTORS & INJECTOR ASSEMBLIES (LESS DLFC WASHER)			
K4560080	MODEL 15/25/27 1600 #1 WHITE INJ		
K4560084	MODEL 5600 BRINE BLOCK #1 WHITE INJ		
K4560384	MODEL 5600 FILTER MODULE		
K4560385	MODEL 9000 BRINE BLOCK #1 WHITE INJ		
K4510227	INJECTOR SCREEN		
NOZZLE	THROAT	SIZE	COLOR
K4510913R	K4510914R	0	RED
K4510913W	K4510914W	1	WHITE
K4510913BL	K4510914BL	2	BLUE
K4510913Y	K4510914Y	3	YELLOW
K4510913G	K4510914G	4	GREEN
K4512973	K4512974	KMnO <sub>4</sub>	GRAY

## PROFESSIONAL SERIES

- ASSEMBLIES AND SERVICE EQUIPMENT
- CONTROL VALVES
- FLECK VALVE PARTS

### PISTON AND SEAL & SPACER KITS

VALVE	STD PISTON	SEAL & SPACER KIT	NHWBP PISTON
1500	K4560090	K4560121	K456010101
2500	K4560090	K4560121	K456010101
2510	K4560090	K4560121	K456010101
2510 NEW	K4561670	***	K456067001
2750	K4560090HF	K4560121	K456010101
2850	K4560105	K4560129	K456011401
2850S	K456163000	K4561632	K456163101
2900 UPPER	K4560090HF	K4560121	N/A
2900 LOWER	K4560103	K4560128	K4560104
2900S UPPER	K4561540	K4561530	N/A
2900S LOWER	K4561550	K4560128	K4561555
3150	K456010600	K4560131	K456011301
3900 UPPER	K456010600	K4560131	N/A
3900 LOWER	K456010700	K4560132	K456010710
5000	K456011500	K4560120	N/A
5600 SOFTENER	K4560102	K4560125	N/A
5600 FILTER	K456010210	K4560125	N/A
5600SE (DF)	K456010271	K4560125	N/A
5600SE (UF)	K456010262	K4560125	N/A
6700 (DF)	K456010271	K4560125	N/A
6700 (UF)	K456010262	K4560125	N/A
7000 28GPM	K456145310	K4561438	N/A
7000 35GPM	K456154210	K4561438	N/A
7000 FILTER	K456145220	K4561438	N/A
9000 UPPER	K4560400	K4560125	N/A
9000 LOWER	K4560401	K4560421	N/A
9100 UPPER	K4560400	K4560125	N/A
9100 LOWER	K4560401	K4560421	N/A
9500 UPPER	K4560108	K4560134	N/A
9500 LOWER	K4560109	K4560133	N/A

\*\*\*Seals are supplied in a kit with piston

2850 "old" style valve can be identified by the 1" MNPT drain connection

2850S "new" style valve can be identified by the 1-1/4" FNPT drain connection

2900 "old" style valve can be identified by the two body castings (upper and lower)

2900S "new" style valve can be identified by the one piece body casting

### CONVERSION KITS FOR NO HARD WATER BYPASS

KIT NO.	DESCRIPTION
K456167100	PISTON CONVERSION ASSY NHWBP FILTER 2510 DOWNFLOW***
K456167101	PISTON CONVERSION ASSY NHWBP (1600) 2510 DOWNFLOW***
K456010100	PISTON CONVERSION ASSY NHWBP FILTER 2500, 2700, 2750 DOWNFLOW
K456010102	PISTON CONVERSION ASSY NHWBP (1600) 2500, 2700, 2750 DOWNFLOW
K456010103	PISTON CONVERSION ASSY NHWBP (1700) 2750 DOWNFLOW
K456011400	PISTON CONVERSION ASSY NHWBP 2850 FILTER
K456011402	PISTON CONVERSION ASSY NHWBP (1600) 2850
K456011403	PISTON CONVERSION ASSY NHWBP (1700) 2850

### DRAIN LINE FLOW CONTROL - FLOW WASHERS

PART NO.	DESCRIPTION
K4512085	1.2 GPM
K4512086	1.5 GPM
K4512087	2.0 GPM
K4512088	2.4 GPM
K4512089	3.0 GPM
K4512090	3.5 GPM
K4512091	4.0 GPM
K4512092	5.0 GPM
K4517814	6.0 GPM
K4512408	7.0 GPM

### DRAIN LINE FLOW CONTROL - CONNECTOR FOR 2510, 2700, 5000, 8500 VALVES

K456070500	1/2" QUICK CONNECT X 1/2" FNPT PLASTIC
K4511912	1/2" QUICK CONNECT X 3/4" MNPT BRASS
K4518312	RETAINER CLIP

### DRAIN LINE FLOW CONTROL - CONNECTOR FOR 2750, 2900, 9500 VALVES

K4560365	3/4" X 1/2" FNPT BRASS (2750, 2900)
K4560366	1" X 3/4" FNPT BRASS (2850, 9500)

### DRAIN FITTINGS - 1/2" ID DRAIN TUBING

K4513308	1/2" FNPT X HOSE BARB STRAIGHT
K4512338	1/2" FNPT X HOSE BARB 90 ELBOW

5600, 7000, 9000, and 9100 valves require washer only

## PROFESSIONAL SERIES

- ASSEMBLIES AND SERVICE EQUIPMENT
- METERS AND METER CAPS

## INLINE METER ASSEMBLIES

VALVE	PART NO.	PIPE SIZE	RANGE	MATERIAL	GALLON RANGE
1500/2750	K4560085	3/4"	STANDARD	BRASS	125 - 2,125
2510	K4560088180	3/4"	STANDARD	NORYL	125 - 2,125
2510	K4560089180	3/4"	EXTENDED	NORYL	625 - 10,625
2510/6600/67000	K456008650	3/4"	ELECTRONIC	NORYL	1 - 9,999
2750	K4560391	1"	STANDARD	BRASS	310 - 5,270
2750	K4560392	1"	EXTENDED	BRASS	1,150 - 26,350
2750	K456156007	1"	ELECTRONIC	NORYL/BRASS	1 - 9,999
2850/9500	K456061001	1-1/2"	STANDARD	BRASS	625 - 10,625
2850/9500	K456061002	1-1/2"	EXTENDED	BRASS	3,125 - 53,125
2850/9500	K4560614	1-1/2"	ELECTRONIC	BRASS	1 - 9,999,999
2850/9500	K456156007	1-1/2"	ELECTRONIC	NORYL/BRASS	1 - 9,999,999
2900/3150	K4560393	2"	STANDARD	BRASS	1,250 - 21,250
2900/3150	K4560394	2"	EXTENDED	BRASS	6,250 - 106,250
2900/3150	K456062501	2"	ELECTRONIC	NORYL/BRASS	1 - 9,999,999
3900	K456060801	3"	STANDARD	BRASS	3,750 - 63,750
3900	K456060802	3"	EXTENDED	BRASS	18,750 - 318,750
3900	K4560617	3"	ELECTRONIC	BRASS	1 - 99,999,999
5600/9000	K4560086	3/4"	STANDARD	NORYL	125 - 2,125
5600/9000	K4560087	3/4"	EXTENDED	NORYL	625 - 10,625
5600SE/PROFLO100	K4560626	3/4"	ELECTRONIC	NORYL	1 - 9,999
6600/6700	K456008650	3/4"	ELECTRONIC	NORYL	1 - 9,999
7000	K4540577	INTERNAL TURBINE			1 - 9,999,999
9000	K4560389	1"	STANDARD	BRASS	310 - 5,270
9000	K4560390	1"	EXTENDED	BRASS	1,150 - 26,350

## METER CAP ASSEMBLIES

METER SIZE	CAP PART NO.	TYPE	MATERIAL
3/4"	K4514038	STANDARD	NORYL
3/4"	K4515150	EXTENDED	NORYL
3/4"	K4514716	ELECTRONIC	NORYL
3/4" - 2510	K4515452	STANDARD	NORYL
3/4" - 2510	K4515659	EXTENDED	NORYL
1", 1-1/2", 2"	K4515218	STANDARD	BRASS
1", 1-1/2", 2"	K4515237	EXTENDED	BRASS
1", 1-1/2", 2"	K4514716	ELECTRONIC	NORYL
3"	K4516400	STANDARD	BRASS
3"	K4516401	EXTENDED	BRASS
3"	K451471601	ELECTRONIC	NORYL



## VISION SERIES

- ASSEMBLIES AND SERVICE EQUIPMENT
- AUTOTROL VALVE PARTS AND SERVICE ASSEMBLIES

PART NO.	DESCRIPTION
<b>VALVES (LESS COVER)</b>	
1051456	VALVE AT 255/440i 6 DAY TIMER SOFTENER VALVE
1050214	VALVE AT 255/460i METERED SOFTENER VALVE
1053227	VALVE AT 268/440i 6 DAY TIMER SOFTENER VALVE
1053260	VALVE AT 268/460i METERED SOFTENER VALVE
1242524	VALVE AT 255/740 LOGIX TIMER SOFTENER VALVE
1242692	VALVE AT 255/760 LOGIX METERED SOFTENER VALVE
1255192	VALVE AT 263/742 LOGIX TIMER FILTER VALVE
1242735	VALVE AT 268/740 LOGIX TIMER SOFTENER VALVE
1242468	VALVE AT 268/760 LOGIX METERED SOFTENER VALVE
<b>BYPASS VALVES</b>	
1040769	VALVE AT BYPASS 255 VALVE
1040930	VALVE AT BYPASS #1265 263/268 PERFORMA SERIES
<b>VALVE COVERS</b>	
1000062	VALVE AT COVER i-LID PERFORMA (OPTION ON 255/460i)
1236246	VALVE AT COVER 255/PERFORMA VALVES W/LOGIX CONTROLLER
<b>TAILPIECES AND GASKETS</b>	
1030541	PART AT GASKET, FITS 1040930 AND ALL TAIL KITS
1001606	PART AT KIT COPPER TAIL 3/4" (2 ADAPTERS, NUTS, AND GASKETS)
1001670	PART AT KIT COPPER TAIL 1.0" (2 ADAPTERS, NUTS, AND GASKETS)
1041210	PART AT KIT COPPER TAIL 1.25" (2 ADAPTERS, NUTS, AND GASKETS)
<b>INTERNAL BACKWASH FLOW CONTROLS (255, 263, 268 VALVES)</b>	
1000209	PART AT BACKWASH ASSY. #7 1.2 GPM
1000210	PART AT BACKWASH ASSY. #8 1.6 GPM
1000211	PART AT BACKWASH ASSY. #9 2.0 GPM
1000212	PART AT BACKWASH ASSY. #10 2.5 GPM
1000213	PART AT BACKWASH ASSY. #12 3.5 GPM
1000214	PART AT BACKWASH ASSY. #13 4.1 GPM
1000215	PART AT BACKWASH ASSY. #14 4.8 GPM
1000269	PART AT BACKWASH CAP PLUG (LESS BALL PERFORMA SERIES)
<b>AIR CHECK 255 VALVES</b>	
1032417	AIR CHECK KIT CLEAR W/ BALL 1/4" MNPT
1033066	AIR CHECK CONVERSION CAP TO 1/4" MNPT (NO BALL OR SUMP)
1030528	AIR CHECK BALL ONLY

PART NO.	DESCRIPTION
<b>EXTERNAL CONNECTION FOR PERFORMA SERIES*</b>	
1264268	FC PVC .75" FNPT x MNPT 1.3 GPM - 7" TANK
1264269	FC PVC .75" FNPT x MNPT 1.7 GPM - 8" TANK
1264270	FC PVC .75" FNPT x MNPT 2.1 GPM - 9" TANK
1264271	FC PVC .75" FNPT x MNPT 2.7 GPM - 10" TANK
1264402	FC PVC .75" FNPT x MNPT 3.8 GPM - 12" TANK
1264403	FC PVC .75" FNPT x MNPT 4.5 GPM - 13" TANK
1264404	FC PVC .75" FNPT x MNPT 5.3 GPM - 14" TANK
1030355	FC PVC .75" FNPT x MNPT 5 GPM
1030356	FC PVC .75" FNPT x MNPT 6 GPM
1030357	FC PVC .75" FNPT x MNPT 7 GPM
1030358	FC PVC .75" FNPT x MNPT 8 GPM
1030359	FC PVC .75" FNPT x MNPT 9 GPM
1030360	FC PVC .75" FNPT x MNPT 10 GPM
1000406	FC PVC .75" FNPT x 1" MNPT 12 GPM
1000407	FC PVC .75" FNPT x 1" MNPT 15 GPM
1000409	FC PVC .75" FNPT x 1" MNPT 20 GPM
	*Prior to installing, remove existing internal backwash control and ball (if supplied) and install cap plug
<b>BLENDING VALVE KITS</b>	
1041189	263/268 PERFORMA VALVES W/ 440i OR 460i CONTROLS
1041195	255 VALVES W/ 440i OR 460i CONTROLS
1041196	255 VALVES W/ 940 OR 960 CONTROLS
1239760	FOR ALL VALVES W/ LOGIX CONTROLS
<b>METER TURBINES</b>	
1032350	TURBINE ASSEMBLY KIT 255 VALVES
1033057	TURBINE WHEEL ONLY 255 VALVES
1033444	TURBINE ASSEMBLY 1" 263/268 PERFORMA VALVE
<b>INJECTORS</b>	
1032970	"A" INJECTOR - WHITE 7 & 8" TANKS
1032971	"B" INJECTOR - BLUE 9 & 10" TANKS
1032972	"C" INJECTOR - RED 12" TANKS
1030272	"D" INJECTOR - GREEN 13 & 14" TANKS
1035733	"H" INJECTOR - LIGHT PURPLE LOGIX CONTROL 9" TANK
1035734	"J" INJECTOR - LIGHT BLUE LOGIX CONTROL 10" TANK
1035735	"K" INJECTOR - PINK LOGIX CONTROL 12" TANK
1035736	"L" INJECTOR - ORANGE LOGIX CONTROL 13 & 14" TANKS
1000226	SCREEN ASSEMBLY WITH CAP

## SPECIALIST SERIES

- ASSEMBLIES AND SERVICE EQUIPMENT
- CLEARWATER 505 VALVE PARTS

PART NO.	DESCRIPTION
<b>VALVES ELECTRONIC CONTROL</b>	
<b>K7300</b>	WS1 VALVE SOFTENER METERED 9" TANK V1DMD
<b>K7301</b>	WS1 VALVE SOFTENER METERED 10" TANK V1DME
<b>K7333</b>	WS1 VALVE SOFTENER TIME CLOCK 9" TANK V1TCTD
<b>K7334</b>	WS1 VALVE SOFTENER TIME CLOCK 10" TANK V1TCTE
<b>K7345</b>	WS1 VALVE TIME CLOCK FILTER
<b>BYPASS VALVE</b>	
<b>K74V3006</b>	BYPASS ASSEMBLY
<b>PIPING ADAPTERS</b>	
<b>K74V300701</b>	PVC ADAPTER SET 3/4" SOCKET OR 1" SOLVENT
<b>K74V300702</b>	BRASS SWEAT ADAPTER SET 1"
<b>K74V300703</b>	BRASS SWEAT ADAPTER SET 3/4"
<b>K74V300704</b>	PVC ADAPTER SET 1MNPT"
<b>K74V300712</b>	SHARK BITE SET 3/4"
<b>DRAIN LINE FLOW WASHERS</b>	
<b>K74V3162010</b>	WS1 FLOW WASHER 1.0 GPM
<b>K74V3162013</b>	WS1 FLOW WASHER 1.3 GPM
<b>K74V3162017</b>	WS1 FLOW WASHER 1.7 GPM
<b>K74V3162022</b>	WS1 FLOW WASHER 2.2 GPM
<b>K74V3162027</b>	WS1 FLOW WASHER 2.7 GPM
<b>K74V3162032</b>	WS1 FLOW WASHER 3.2 GPM
<b>K74V3162042</b>	WS1 FLOW WASHER 4.2 GPM
<b>K74V3162053</b>	WS1 FLOW WASHER 5.3 GPM
<b>K74V3162065</b>	WS1 FLOW WASHER 6.5 GPM
<b>K74V3162075</b>	WS1 FLOW WASHER 7.5 GPM
<b>K74V3162090</b>	WS1 FLOW WASHER 9.0 GPM
<b>K74V3162100</b>	WS1 FLOW WASHER 10.0 GPM

PART NO.	DESCRIPTION
<b>INJECTORS</b>	
<b>K74V30101A</b>	INJECTOR ASSEMBLY BLACK 6" DOWNFLOW / 8" UPFLOW
<b>K74V30101B</b>	INJECTOR ASSEMBLY BROWN 7" DOWNFLOW / 9" UPFLOW
<b>K74V30101C</b>	INJECTOR ASSEMBLY VIOLET 8" DOWNFLOW / 10" UPFLOW
<b>K74V30101D</b>	INJECTOR ASSEMBLY RED 9" DOWNFLOW / 12" UPFLOW
<b>K74V30101E</b>	INJECTOR ASSEMBLY WHITE 10" DOWNFLOW / 13" UPFLOW
<b>K74V30101F</b>	INJECTOR ASSEMBLY BLUE 12" DOWNFLOW / 14" UPFLOW
<b>K74V30101G</b>	INJECTOR ASSEMBLY YELLOW 13" DOWNFLOW / 16" UPFLOW
<b>K74V30101H</b>	INJECTOR ASSEMBLY GREEN 14" DOWNFLOW / 18" UPFLOW
<b>K74V30101I</b>	INJECTOR ASSEMBLY ORANGE 16" DOWNFLOW / 21" UPFLOW
<b>DRAIN LINE FITTINGS</b>	
<b>K74PKP10TS8</b>	POLYTUBE INSERT 5/8" OD TUBE
<b>K74V3192</b>	3/4" ADAPTER NUT FOR 5/8" OD TUBE
<b>SEAL KIT</b>	
<b>K74V3005</b>	WS1 SEAL/SPACER STACK ASSEMBLY
<b>PISTON ASSEMBLIES</b>	
<b>K74V3011</b>	WS1 DOWNFLOW PISTON
<b>K74V301101</b>	WS1 UPFLOW PISTON
<b>K74V3174</b>	WS1 REGENERANT PISTON



## SYSTEM ACCESSORIES AND COMPONENTS

- FIBERGLASS TANKS
- COMPOSITE PRESSURE VESSELS FOR WATER TREATMENT

TANKS

### OPERATING PARAMETERS

- Maximum operating pressure: 150psi / 10Bar
- Maximum operating temp: 120F / 50C

### DESIGN PARAMETERS

- 250,000 + cycles, 0 to 150psi, without leakage
- 4:1 safety factor (600psi minimum burst)
- Stress rupture: minimum 1,000 hours at 150F and 150psi static pressure

### WARRANTY

- Sizes through 13": 10 year limited warranty

PART NO.	DESCRIPTION	CARTON QTY	WEIGHT EA.	TOTAL WEIGHT
C1054	7 X 35 BLUE POLY WITH STANDARD BASE	24	6	144
C1054A	7 X 35 NATURAL POLY WITH STANDARD BASE	24	6	144
C1058	8 X 35 NATURAL POLY WITH STANDARD BASE	18	6.5	117
C10581	8 X 35 BLUE POLY WITH STANDARD BASE	18	6.5	117
C1062	8 X 40 NATURAL POLY WITH STANDARD BASE	18	7	126
C1062BK	8 X 40 BLACK POLY WITH STANDARD BASE	18	7	126
C1066	8 X 44 NATURAL POLY WITH STANDARD BASE	18	8	144
C1081	9 X 42 NATURAL POLY WITH STANDARD BASE	16	12	192
C1084	9 X 48 NATURAL POLY WITH STANDARD BASE	16	14	224
C1084BK	9 X 48 BLACK POLY WITH STANDARD BASE	16	14	224
C10841	9 X 48 BLUE POLY WITH STANDARD BASE	16	14	224
C1088	10 X 35 NATURAL POLY WITH STANDARD BASE	12	14	168
C10881	10 X 35 BLUE POLY WITH STANDARD BASE	12	14	168
C1089	10 X 40 NATURAL POLY WITH STANDARD BASE	12	15	180
C1090	10 X 44 NATURAL POLY WITH STANDARD BASE	12	16	144
C1090BK	10 X 44 BLACK POLY WITH STANDARD BASE	12	16	192
C1077	10 X 47 NATURAL POLY WITH STANDARD BASE	14	16	192
C1092	10 X 54 NATURAL POLY WITH STANDARD BASE	16	18	224
C1092BK	10 X 54 BLACK POLY WITH STANDARD BASE	16	18	288
C1092B	10 X 54 BLUE POLY WITH STANDARD BASE	16	18	288
C1094	12 X 48 NATURAL POLY 2.5 WITH STANDARD BASE	9	22	288
C10941	12 X 48 BLUE POLY 2.5 WITH STANDARD BASE	9	22	198
C1094X	12 X 52 ALMOND POLY 2.5 WITH STANDARD BASE	9	23	207
C1094X1	12 X 52 BLUE POLY 2.5 WITH STANDARD BASE	9	23	207
C109525	13 X 54 BLUE POLY 2.5 WITH STANDARD BASE	9	25	225
C1095A	13 X 54 ALMOND POLY 2.5 WITH STANDARD BASE	9	25	225
C1095B	13 X 54 ALMOND POLY 4.0 WITH STANDARD BASE	9	25	225
C1095L	13 X 65 NATURAL POLY 2.5 WITH STANDARD BASE	1	NA	NA
C1099E	16 X 65 WITH STANDARD BASE NATURAL 4" SS INS TOP	1	NA	NA
C1030E	21 X 62 WITH STANDARD BASE NATURAL 4" SS INS TOP	1	NA	NA
C1031E	24 X 72 WITH STANDARD BASE NATURAL 4" SS INS TOP	1	NA	NA
<b>DOMED HOLE TANKS</b>				
C1090DH	10 X 44 WITH STANDARD BASE DOME HOLE NATURAL	12	16	192
C1092DH	10 X 54 WITH STANDARD BASE DOME HOLE NATURAL	16	18	288
C1094XDH	12 X 52 WITH STANDARD BASE DOME HOLE NATURAL	9	23	207
C1095ADH	13 X 54 WITH STANDARD BASE DOME HOLE ALM	9	24	216

## SYSTEM ACCESSORIES AND COMPONENTS

- PORTABLE EXCHANGE TANKS & KITS

## PRODUCT FEATURES

- For light commercial water treatment
- Portable, easy to change-out design eliminates downtime and hassles
- Noryl exchange head, 4 1/2" threaded openings and standard disconnects operate with existing systems
- Noryl manifold is 30% stronger than conventionals ABS
- Requires no steel bands
- Impact and corrosion resistance due to high performance polyethylene inner liner
- Factory-backed five-year warranty

PART NO.	DESCRIPTION
<b>TANKS</b>	
<b>CH32127</b>	DI TANK 12 X 52 4.5" T BTRS NAT W/ BUMP BAND AND RUBBER BASE
<b>CH32006</b>	DI TANK 14 X 47 4.5" T BTRS NAT W/ BUMP BAND AND RUBBER BASE
<b>KITS</b>	
<b>CH14817</b>	DI KIT FF 14 X 47 1-7/8" FILL 1" IN/OUT W/RISER AND 12 SEG DIST
<b>CH14818</b>	DI KIT HF 14 X 47 1-7/8" FILL 1" IN/OUT W/RISER AND 19 SEG DIST
<b>CH14819</b>	DI KIT FF 12 X 52 1-7/8" FILL 1" IN/OUT W/RISER AND 12 SEG DIST
<b>CH14820</b>	DI KIT HF 12 X 52 1-7/8" FILL 1" IN/OUT W/RISER AND 19 SEG DIST
<b>CH14821</b>	DI KIT FF 14 X 47 1" FILL 1" IN/OUT W/RISER AND 12 SEG DIST
<b>CH14822</b>	DI KIT HF 14 X 47 1" FILL 1" IN/OUT W/RISER AND 12 SEG DIST
<b>CH14823</b>	DI KIT FF 12 X 52 1" FILL 1" IN/OUT W/RISER AND 12 SEG DIST
<b>CH14824</b>	DI KIT HF 12 X 52 1" FILL 1" IN/OUT W/RISER AND 19 SEG DIST

## MATERIALS OF CONSTRUCTION

- Polyethylene inner shell

## OPERATING PARAMETERS

- Maximum operating pressure: 150 psi
- Maximum operating temperature: 120F

## PENTAIR DESIGN PARAMETERS

- Safety factor of 4:1
- Minimum burst at 600 PSI
- Tested to 250,000 cycles without leakage

## NSF DESIGN PARAMETERS

- Safety factor of 4:1
- Minimum burst at 600 PSI
- Tested to 100,000 cycles without leakage

All assembly kits include manifold, 4.5" BTRS thread, face seal, Bajonet inlet screen, riser tube with o-ring seal, and basket (12 or 19 segment).



## SYSTEM ACCESSORIES AND COMPONENTS

- PORTABLE EXCHANGE TANKS & KITS
- ACCESSORIES AND REPLACEMENT PARTS

PART NO.	DESCRIPTION
<b>ACCESSORIES AND REPLACEMENT PARTS</b>	
<b>CH14815</b>	DI HEAD ASSY 1-7/8" FILL 1" IN/OUT W/BAYONET DIFFUSER
<b>CH14816</b>	DI HEAD ASSY 1" FILL 1" IN/OUT W/BAYONET DIFFUSER
<b>CH5474</b>	DI HEAD INLET BASKET DIFFUSER
<b>CH14199</b>	DI FTG NORYL 1" UHB QD UNION X HOSE BARB
<b>CH14200</b>	DI FTG NORYL 1" UMA QD UNION X MALE ADAPTER
<b>CH13511</b>	DI FTG NORYL 1" MA QD MALE ADAPTER
<b>CH13515</b>	DI FTG NORYL 1" HB QD HOSE BARB ADAPTER
<b>CH13517</b>	DI FTG NORYL 1" DUST CAP MA
<b>CH13611</b>	DI FTG NORYL 1-7/8" FILL PLUG W/O-RING
<b>CH13513</b>	DI FTG NORYL 1" MALE UN PLUG W/O-RING
<b>CH2694169</b>	DI FTG EPDM O-RING QD FITTING E515-80

(2) 1" Connections  
(1) 1-7/8" Fill



(2) 1" Connections  
(1) 1" Fill



Female Hose Fitting



Part No. CH14199

Female Pipe Fitting



Part No. CH14200

Male Hose Fitting



Part No. CH13511

Male Pipe Fitting



Part No. CH13515

1-7/8" Plug with O-Ring



Part No. CH13611

Female Cap



Part No. CH13517

Male Plug



Part No. CH13513

EPDM O-RING



Part No. CH2694169

## BRINE TANKS

- RESIDENTIAL / COMMERCIAL
- EMPTY

## Residential / Polyethylene

Part #	Description	Dia. x Hgt.	Salt / Less Grid	Gallons	Unit Ctn. Wgt.
Square Tanks					
G2010	Black Square	11 x 11 x 36	150	18	1/15
CH33092	Natural Square	11 x 11 x 34	175	18	4/24
G2018	Blue Square	14 x 14 x 34	225	25	5/40
G2018A	Almond Square	14 x 14 x 34	225	25	5/40
G2018B	Black Square	14 x 14 x 34	225	25	5/40
Round Tanks					
G2000	Blue Round	10 x 16	40	5	1/5
G2001	Blue Round	18 x 33	330	35	1/12
G2001A	Almond Round	18 x 33	330	35	1/12
G2001B	Black Round	18 x 33	330	35	1/12
G2002	Blue Round	18 x 40	400	43	1/15
G2002A	Almond Round	18 x 40	400	43	1/15
G2002B	Black Round	18 x 40	400	43	1/15
Cabinet Style Tanks					
G271601	Carribean III / White w/ Cover	14 x 23 x 44	250	--	1/22
CH33171	White Round (1/2 Moon)	18 x 40	360	40	1/16

## Commercial / Polyethylene

## Blow Molded Tanks

G2003	Polyethylene Black	24 x 41	700	81	1/26
G2004	Polyethylene Black	24 x 50	900	100	1/29
G2009	Polyethylene Black	30 x 50	1400	150	1/49

## Rotational Molded Tanks

G3009	Polyethylene Black	24 x 60	950	118	1/40
G2007	Polyethylene Black	30 x 48	1200	145	1/53
G3010	Polyethylene Black	30 x 60	1500	180	1/60
G2008	Polyethylene Black	39 x 48	2200	250	1/70
G3015	Polyethylene Black	39 x 60	3100	350	1/97
G3020	Polyethylene Black	42 x 60	3100	350	1/97
G3025	Polyethylene Black	50 x 60	4500	500	1/113



- RESIDENTIAL / COMMERCIAL
- ASSEMBLED

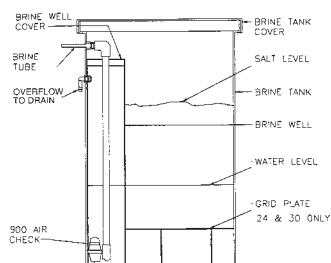
## Partial Listing

### Brine Tanks Assembled

### We Can Custom Assemble Brine Tanks To Your Specifications

#### Features

- All tanks include 4" slotted brine well with cover, overflow fitting and brine line tubing
- 2300 brine valve assembly is complete with blue/white buoy float
- 2310 brine valve assembly is complete with PVC cup float



#### Part #

#### Dia. x Hgt.

#### Description

#### Square Tanks

BT1130	11 x 11 x 36	Natural w/ 2310 BV, Grid w/ Strainer( for 255 Valves)
BT1140	11 x 11 x 36	Natural w/ 2310 BV, Grid w/ 500 Air Check
BT1410	11 x 11 x 36	Black w/ 2300 BV, Grid w/ Strainer( for 255 Valves)
BT1431	11 x 11 x 36	Black w/ 2310 BV, Less Grid w/ Strainer
BT2211	14 x 14 x 34	Almond w/ 2300 BV, for 255 Valves, Less Grid w/ Strainer
BT2240	14 x 14 x 34	Almond w/ 2310 BV, Grid w/ 500 Air Check
BT2320	14 x 14 x 34	Blue w/ 2300 BV, Grid w/ 500 Air Check
BT2321	14 x 14 x 34	Blue w/ 2300 BV, Less Grid w/ 500 Air Check

#### Round Tanks

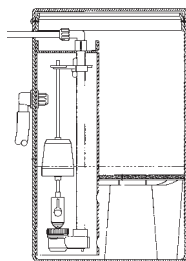
BT3211	18 x 33	Almond w/ 2300 BV, Less Grid w/ Strainer ( for 255 Valves)
BT3220	18 x 33	Almond w/ 2300 BV, w/ Grid, w/ 500 Air Check
BT3240	18 x 33	Almond w/ 2310 BV, w/ Grid, w/ 500 Air Check
BT3320	18 x 33	Blue w/ 2300 BV, w/ Grid, w/ 500 Air Check
BT3340	18 x 33	Blue w/ 2310 BV, w/ Grid, w. 500 Air Check
BT4320	18 x 40	Blue w/ 2300 BV, w/ Grid, w/ 500 Air Check
BT4340	18 x 40	Blue w/ 2310 BV, w/ Grid, w/ 500 Air Check
BT5420	24 x 41	Black w/ 2300 BV, w/ Grid, with 500 Air Check
BT5440	24 x 41	Black w/ 2310 BV, w/ Grid, w/ 500 Air Check

#### Potassium Permanganate Feeder

G1015	10 x 16	Complete with Safety Float, Grid, Pad and Tubing Blue 4 oz
G1016	10 x 16	Complete with Safety Float, Grid, Pad and Tubing Alm 4 oz
G1017	10 x 16	Complete with Safety Float, Grid, Pad and Tubing Blue 2 oz
G1018	10 x 16	Complete with Safety Float, Grid, Pad and Tubing Blue 6 oz



G1015 Clack Feeder



- RESIDENTIAL / COMMERCIAL
- COMPONENTS

Part #	Description
<b>Brine Valve Assemblies - Commercial</b>	
H4900	494 Brine Valve 1" w/ Air Check (60" Riser w/ Float)
H702524	464 Brine Valve Assy 24"
H702703	464 Brine Valve KMnO <sub>4</sub> 4 oz.
H7005	2300 Safety Float with Aircheck
H7006	2300 Brine Assy Complete, 4" Well, 3/8" SF, 500 AC
H103032SA	Brine Valve Kit 2310 (3/8) Valve 4 x 32 Slotted Well #500 AC w/Float for 18 x 33 Brine Tanks
H103036SA	Brine Valve Kit 2310 (3/8) Valve 4 x 36 Slotted Well #500 AC w/Float for 18 x 40 Brine Tanks
H490048BV	Brine Valve Kit 474 (1/2) Valve 5 x 48 Slotted Well #474 AC w/Float for Commercial Brine Tanks
H490060BV	Brine Valve Kit 474 (1/2) Valve 5 x 60 Slotted Well #474 AC w/Float for Commercial Brine Tanks



BRINE FLOAT ASSEMBLIES

### Brine Safety Shut Off Valves

K4560027FFA	Fleck 2300 Brass 3/8" Safety Valve
K4560014	Fleck 2310 Noryl 3/8" Safety Valve
K4560038	Fleck 2350 Brass 1" Commercial Safety Valve
H4600	Clack 3/8" Noryl Safety Valve
H460002	Clack 1/2" Noryl Safety Valve

### Brine Safety Floats

K4560026	Plastic Buoy Float Red/White - Commercial
K4560028	Plastic Buoy Float Blue/ White - Residential
K4560068	PVC Cup Float - Residential
H46407	#474 Float Assy 7"



500 AIR CHECK

### Brine Air Check/Pick Up Tubes

K4560002	Fleck #500 Residential Air Check
K4560003	Fleck #500 Hot Water Air Check
K4560009	Fleck #900 Commercial Air Check less Fittings
H606128	MPU-14 Strainer w/ 28" Rod
H6061	MPU-14 Strainer Only
H6010	3/8" PVC Rigid Pick Up Tube (per/ft.)
H4500305	1/2" #474 Air Check 30 1/2"
H450048	1/2" #474 Air Check 48"

### Brine Wells

H104129	3.5 x 29	Round Brine Well Slotted w/ Caps
H104036S	3.5 x 36	Brine Well Slotted w/ Caps
H103014S	4 x 14	Brine Well Slotted
H103028S	4 x 28	Brine Well Slotted
H103032S	4 x 32	Brine Well Slotted
H103036S	4 x 36	Brine Well Slotted
H103046S	4 x 46	Brine Well Slotted
H103348S	5 x 48	Brine Well Slotted
H103360S	5 x 60	Brine Well Slotted



BRINE WELL/ GRID PLATE



- RESIDENTIAL / COMMERCIAL
- COMPONENTS

Part #	Description
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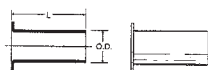
## Grid Plates



H1074	14" x 14" Grid Plate
H1072	TP500 Grid Set 18" w/ 4" Hole
H1073	TP500 Extension Sets (4 to set)
H1075	24" Grid Set (requires six 1-1/2" PVC legs)
H1032	30" Grid Plate (requires six 1-1/2" PVC legs)
H1043	Poly Grid Pad for KMnO <sub>4</sub> 10" Diameter Feed Tank
H1080	Poly Grid Pad (18" Tank) 19" x 19"

## Brine Tank Miscellaneous Components

H1018	Two Piece Overflow Set
I4408	3/8" Stainless Steel Grab Ring
H1016	4" Plastic Brine Well Cap
H1024	6" Plastic Brine Well Cap
I8070	3/8" OD Black Brine Line Tubing
I8071	3/8" OD Clear Brine Line Tubing

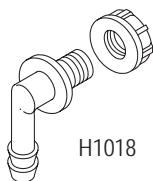


## Tubing Inserts

H6013	Brass - Fits 1/4" ID Tubing
H6014	Brass - Fits 3/8" ID Tubing
H6015	Brass - Fits 1/2" ID Tubing
H6013A	ABS Plastic - Fits 1/4" ID Tubing
H6014A	ABS Plastic - Fits 3/8" ID Tubing

## Tubing Ferrules

H6018	Delrin Plastic - Fits 1/4" ID Tubing
H6019	Delrin Plastic - Fits 3/8" ID Tubing



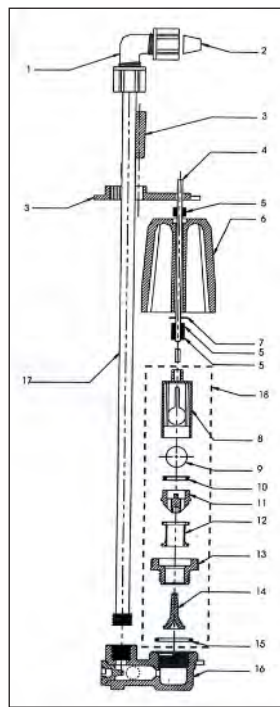
## Brass Compression Nuts

I2761C6	Brass - Tubing Size 3/8"
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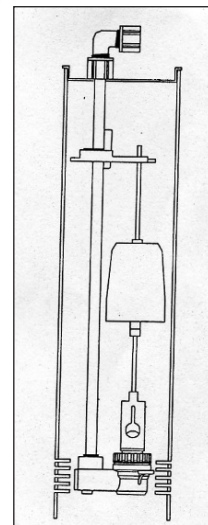
## BRINE VALVES

- CLACK 464
- 3 1/2" BRINE VALVE ASSEMBLIES AND COMPONENTS

PART NUMBER	MFG NUMBER	DESCRIPTION
H7051	H7051	Stem
H10352675	H1035-26.75	3/8" x 26.75" Rigid PVC (for 28" Brine Wells)
H10352775	H1035-27.75	3/8" x 27.75" Rigid PVC (for 29" Brine Wells)
H10352875	H1035-28.75	3/8" x 28.75" Rigid PVC (for 30" Brine Wells)
H10353475	H1035-34.75	3/8" x 34.75" Rigid PVC (for 36" Brine Wells)
H7028	H7028	Air Check Assembly



PART NUMBER	MFG NUMBER	DESCRIPTION	QTY/CRTN
H707628	H7076-28	464 High Flow Assembled in a 3.5" x 28" Slotted Brine Well	25
H707828	H7078-28	464 Control Flow Assembled in a 3.5" x 28" Slotted Brine Well	25
H707629	H7076-29	464 High Flow Assembled in a 3.5" x 29" Slotted Brine Well	25
H707829	H7078-29	464 Control Flow Assembled in a 3.5" x 29" Slotted Brine Well	25
H707630	H7076-30	464 High Flow Assembled in a 3.5" x 30" Slotted Brine Well	25
H707830	H7078-30	464 Control Flow Assembled in a 3.5" x 30" Slotted Brine Well	25
H707636	H7076-36	464 High Flow Assembled in a 3.5" x 36" Slotted Brine Well	25
H707836	H7078-36	464 Control Flow Assembled in a 3.5" x 36" Slotted Brine Well	25
All assemblies include a 3.5" brine well cap, 3/8 x 3/8 elbow and 3/8 poly tube insert			
All assemblies are 100% air tested to insure proper functioning			
H702514	H7025-14"	464 Standard 14" Float Rod	18
H702514CF	H7025-14"CF	464 Control Flow 14" Float Rod	18
H702514HF	H7025-14"HF	464 High Flow 14" Float Rod	18
H702524	H7025-24"	464 Standard 24" Float Rod	18
H702524CF	H7025-24"CF	464 Control Flow 24" Float Rod	18
H702524HF	H7025-24"HF	464 High Flow 24" Float Rod	18



## BAGGED MEDIA

### Activated Carbon Media for Water Filtration

Complies with AWWA Standard B604-96 and the requirements of ANSI/ NSF Standard 61

Part #	Description	Type	Mesh Size	Size	Unit Bag/lbs	CF/Pallet
A8056	Catalytic- H <sub>2</sub> S Selective	Centaur	12 x 40	1 cu ft	33	80
A9030C	Acid Washed / Low Fines pH Neutral	CPG-LF40	12 x 40	2 cu ft	55	80
A9031B	Low Fines / General Purpose	F-400	12 x 40	1 cu ft	28	80
A9031C	Low Fines / General Purpose	F-400	12 x 40	2 cu ft	55	80
A9034C	Low Fines / MTBE Selective	F-600	8 x 40	1.4 cu ft	55	56
A9231	High Capacity	OLC Coconut Carbon	12 x 40	2 cu ft	55	80
A9230A	High Capacity Acid Washed	OLC Coconut Carbon	12 x 40	2 cu ft	55	80

### Iron Reduction / Neutralizing Media

Part #	Description	Application	Size	Unit Bag/lbs.	Qty Per Pallet
A8006	BIRM 10 x 40 Mesh	Fe and Mn reduction	1 cu ft	1/44	40
A8012	Corosex 6 x 16 Mesh	Raise pH	0.66 cu ft	1/50	60
A8014	Filter Ag 12 x 30 Mesh	Sediment Removal	1 cu ft	1/50	70
A802150	Crushed Calcite 16 x 40 Mesh	Raise pH	0.5 cu ft	1/50	50
A8033	Catalox 20 x 40 Mesh	Fe, Mn, H <sub>2</sub> S Removal	0.4 cu ft	1/50	40
A8040	MTM 14 x 40 Mesh	Fe, Mn, H <sub>2</sub> S Removal	1 cu ft	1/27	40
A8045	Manganese Greensand Plus	Fe, Mn, H <sub>2</sub> S Removal	.5 cu ft	1/44	25
A5005 <sup>1</sup>	KDF-85	Fe Reduction	0.33 cu ft	1/57 pail	N / A
KDF8520	KDF-85 20# Pail	Fe Reduction	0.1 cu ft	1/20# pail	N / A

### Sand / Gravel<sup>2</sup> (Packaged in 1/2 Cubic Foot Bags)

Part #	Description	U.S. Mesh	Unit Bag/lbs.	Bags / Pallet
A7002A	.45-.55 mm	(40-30)	1/50	60
A7003A	.6-.8 mm	(30-20)	1/50	60
A7004A	.8-1.2 mm	(20-16)	1/50	60
A7005A	# 20 Flint	(16-6) (Fine)	1/50	60
A7006A	(#3) 1/4" x 1/8"	(6-3) (Medium)	1/50	60
A7007A	(#4) 1/2" x 1/4"	(Coarse)	1/50	60
A7008A*	(#5) 3/4" x 1/2"		1/50	60
A7009A*	(#6) 1-1/2" x 3/4"		1/50	60
A7012A*	2-1/2" x 1-1/2"		1/50	60

### Anthracite<sup>2</sup> (Packaged in 1 Cubic Foot Bags)

A7050	#1 (0.6 x .8 mm)	30-20	1/50	40
A7051	#1-1/2 (0.85 x 0.95) mm	20-18	1/50	40
A7052	#2 (3/16" x 3/32")	4-8	1/50	40
A7053*	#3 (5/16" x 3/16")	2.5-4	1/50	40
A7054*	#4 (9/16" x 5/16")		1/50	40
A7055*	#5 (3/16" x 9/16")		1/50	40
A7066*	#6 (1-5/8" x 13/16")		1/50	40

### Garnet<sup>2</sup> (sold 50# bags) 1 cu. ft. = 130# to 157#

A7080A	#12	(1.4 mm)	1/50	80
A7082A	#16	(0.9 mm)	1/50	80
A7086A	#50	(0.4 mm)	1/50	80



<sup>1</sup> Do not use KDF on water containing poly-phosphates

<sup>2</sup> Sand, Gravel, Anthracite & Garnet meet AWWA specifications B100-89 and comply with ANSI/NSF Standard 61

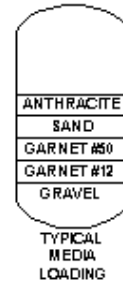
\* Special Order Pallets Only

- BAGGED MEDIA**

## Multi - Layer Rebed Packages

For Fiberglass Vessels

Part #	For Tank Size	lbs.
N524009RB	9 x 48	85
N524010RB	10 x 54	133
N524012RB	12 x 52	175
N524013RB	13 x 54	233
N524014RB	14 x 65	295
N524016RB	16 x 65	420
N524020RB	20 x 60	640
N524021RB	21 x 62	640
N524024RB	24 x 71	975
N524030RB	30 x 72	1500
N524036RB	36 x 72	2200
N524042RB	42 x 72	3050
N524048RB	48 x 72	4000
N524063RB	63 x 86	6500



**NOTE:** All media rebeds are supplied with a loading chart. All skidded rebeds are packed in reverse loading sequence for ease of install.

## Ion Exchange Resin

Cation PUROLITE

BLAKE #	MFG #	DESCRIPTION 1	DESCRIPTION 2	WEIGHT EA	BOX QTY
A4000	C100E	PREMIUM RESIN PUROLITE C100E	CATION (NA) NON SOLVENT 1CF/BAG	53	1
A4078	SST-60	PREMIUM RESIN PUROLITE SST-60	SALT SAVING CATION RESIN	50	1
A4150	FERRIX A33E	PREMIUM RESIN ARSENIC REDUCTION	FERRIX A33E	49	1
A6001	C100NA	PREMIUM RESIN PUROLITE C100	CATION (NA) 1CF/BAG	50	1
A6002	C100H	PREMIUM RESIN PUROLITE C100H	CATION (H) 1CF/BAG	50	1
A6007	C100FM	PREMIUM RESIN PUROLITE C100FM	CATION (NA) FINE MESH 1CF/BAG	50	1
A6010	NRW-37	PREMIUM RESIN PUROLITE NRW-37	MIXED BED NUCLEAR GRADE (H/OH)	51	1
A6016	C100X10	PREMIUM RESIN PUROLITE C100X10	CATION (NA) 10% CROSSLINK 1CF/BAG	52	1
A6020	A600	PREMIUM RESIN PUROLITE 600	ANION (CL) SB TYPE 1	44	1
A6020OH	A400OH	PREMIUM RESIN PUROLITE A400OH	ANION (OH) SB TYPE 1 GEL	43	1
A6020P	A400	PREMIUM RESIN PUROLITE A400	ANION (CL) SB TYPE 1 GEL	43	1
A6022	A500P	PREMIUM RESIN PUROLITE A500P	ANION (CL) SB TYPE 1 MACROPOROUS	43	1
A6024	A-860	PREMIUM RESIN PUROLITE A-860	TANNIN SELECTIVE 1CF/BAG	44	1
A6027	A-520E	PREMIUM RESIN PUROLITE A-520E	NITRATE SELECTIVE 1CF/BAG	45	1

## MEDIA, RESIN, AND CHEMICALS

### • BUCKETED MEDIA

PART NO.	DESCRIPTION	SHIP WT (LBS)
SR050	SOFTENER RESIN PUROLITE C100E .50 CU FT	26
SR075	SOFTENER RESIN PUROLITE C100E .75 CU FT	39
SR100	SOFTENER RESIN PUROLITE C100E 1.00 CU FT	52
FMSR050	FINE MESH SOFTENER RESIN .50 CU FT	28
FMSR075	FINE MESH SOFTENER RESIN .75 CU FT	43
FMSR0100	FINE MESH SOFTENER RESIN 1.00 CU FT	56
TN050	TANNIN RESIN .50 CU FT	28
TN075	TANNIN RESIN .75 CU FT	43
TN100	TANNIN RESIN 1.0 CU FT	56
NE050	GEORGIA MARBLE NEUTRALIZER .50 CU FT	42
NE075	GEORGIA MARBLE NEUTRALIZER .75 CU FT	64
NE100	GEORGIA MARBLE NEUTRALIZER 1.0 CU FT	85
MG050	MANGANESE GREENSAND .50 CU FT	45
MG075	MANGANESE GREENSAND .75 CU FT	68
MG100	MANGANESE GREENSAND 1.0 CU FT	90
AC050	ACTIVATED CARBON .50 CU FT	14
AC075	ACTIVATED CARBON .75 CU FT	21
AC100R	ACTIVATED CARBON 1.0 CU FT	28
BM050	BIRM .50 CU FT	24
BM075	BIRM .75 CU FT	37
BM100	BIRM 1.0 CU FT	49
FA050	FILTER AG .50 CU FT	14
FA075	FILTER AG .75 CU FT	21
FA100	FILTER AG 1.0 CU FT	28
AM050	AERATION MIX BLEND .50 CU FT	31
AM075	AERATION MIX BLEND .75 CU FT	46
AM100	AERATION MIX BLEND 1.0 CU FT	63
CX050	COROSEX .50 CU FT	57
CX075	COROSEX .75 CU FT	79
CX100	COROSEX 1.0 CU FT	103
NUS050	MIX 66% NEUT & 33% COROSEX .50 CU FT	41
NUS075	MIX 66% NEUT & 33% COROSEX .75 CU FT	62
NUS100	MIX 66% NEUT & 33% COROSEX 1.0 CU FT	82
CN050	CENTAUR CARBON .50 CU FT	17
CN075	CENTAUR CARBON .75 CU FT	26
CN100	CENTAUR CARBON 1.0 CU FT	34
DG020	D GRAVEL 20 LB	20
DG030	D GRAVEL 30 LB	30
DG050	D GRAVEL 50 LB	50

- **MEDIA OVERVIEW**

## Applications

KDF 85

### **Iron and Hydrogen Sulfide Reduction**

#### Advantages

- This unique, innovative and environmentally responsible media consists of high purity copper-zinc granules that use redox (the exchange of electrons) in patented products
- Effectively reduce / remove iron and hydrogen sulfide and heavy metals
- Control microorganisms in potable water
- Permits removal of iron and H<sub>2</sub>S without the use of chemicals

#### Properties

- Color: Reddish brown
- Density: 2.2 - 2.7 g/cc (171 lbs./cu. ft.)
- Mesh Size: -10 + 100
- Physical Form: Granular
- Particle Size Range: 2.00 mm to 0.149 mm
- Turbidity: >20 ntu
- Skid: 48.33 cu. ft. drums (2,736 lbs.)
- Odor and Tastes: None

#### Operating Conditions \*

- Service Flow (10" bed depth): 15 gpm./sq. ft. (57 l/min.)
- Backwash for 10 min. @: Twice service flow
- Purge/rinse for 3 min. @: Twice service flow
- Bed Expansion, backwash: 10 to 15%
- pH Range, drinking water: 6.5 to 8.5
- pH Range, non-potable drinking water: 5.5 to 8.5
- Minimum of bed depth (6" dia.): 10 in.
- Freeboard: 20%
- Total dissolved solids influent: >150 ppm (mg/l) min.
- Water temperature, influent: 35° to 212° F

\* The data included herein are based on outside laboratory tests. We believe the data are reliable, but recommend that users test performance on their own equipment. When using KDF media, proper backwash procedures should be applied.



## • MEDIA OVERVIEW

### Applications

#### CATALOX

##### Advantages

- Effective reduction of iron, sulfur and manganese
- Durable material with long service life and low annual attrition of bed
- No chemical regeneration required only periodic backwashing

##### Properties

- Color: Black
- Bulk Density: 125 lbs./ cu. ft.
- Mesh Size: 8 x 20
- Specific Gravity: 3.8
- Effective Size: 0.51 mm
- Uniform Coefficient: 1.7

##### Operating Conditions

- pH: 6.5-9.0
- Bed Depth: application dependent.
- Freeboard: 40% of bed depth (min.)
- Backwash flow rate: 25-30 gpm/sq. ft.
- Service flow rate: 5 gpm/sq. ft.
- Backwash bed expansion: 15-30% of bed depth (min.)

#### ION EXCHANGE RESINS

##### Sodium Softening Strong Acid Cation Resin C100E

- Premium grade, strong acid cation in the sodium form which is manufactured without the use of a solvent. This process eliminates any solvent leachables.
- Meets the most exacting requirements of the residential water treatment industry. It is tested and certified by NSF International under ANSI / NSF44 for materials, and is specially treated to eliminate taste, odor, color throw, and assures compliance with the FDA regulation CFR21 173.25.

##### Sodium Softening Fine Mesh Cation Resin C100FM

- Fine mesh gel cation resin, possessing high capacity, excellent stability, and excellent operating characteristics
- Manufactured to stringent particle size controls that call for a minimum 85% 40-70 mesh beads
- Greater surface area and a shorter diffusion path resulting in improved kinetics when compared to a conventional resin

##### Macro Acrylic Strong Base Anion A860

- Acrylic strongly basic macroporous anion resin
- Provides superior resistance to organic fouling
- Unique ability to remove tannins during the service cycle and release them during regeneration

##### Strongly Basic Anion, Type II Ion Exchange Resin A520E

- Premium grade strongly basic anion exchange resin specifically manufactured to remove nitrate and sulfate ions from water
- supplies Meets the strict requirements of U.S. FDA's Food Additives Regulations paragraph 173.25
- Significantly reduce sulfate level in high sulfate water supplies High operating capacity level type II gel, strongly basic anion exchanger. Regeneration is with a salt solution typical of that used in water softeners.

Suggested Operating Conditions	C100E	C100FM	A860	A520E
Operating Temperature - Maximum	280°F	280°F	100°F	170°F
Bed Depth - Minimum	30"	30"	30"	30"
Standard Operating Flow Rate	2-5 gpm/ft. <sup>3</sup>	2-5 gpm/ft. <sup>3</sup>	2-5 gpm/ft. <sup>3</sup>	2-5 gpm/ft. <sup>3</sup>
Backwash Expansion	50-75%	50-75%	75-100%	50%
Regenerant Concentration	5-26%	5-26%	5-10%	5-10%
Regenerant & Slow Rinse Rate	.25-.5 gpm/ft. <sup>3</sup>	.25-.5 gpm/ft. <sup>3</sup>	0.3-.5 gpm/ft. <sup>3</sup>	1 gpm/ft. <sup>3</sup>
Fast Rinse Rate	50- 75%	50- 75%	50- 75%	50- 75%
Turbidity (max.)	5 NTU	5 NTU	1 NTU	5 NTU
Free chlorine (max.)	1.0 PPM	1.0 PPM	1.0 PPM	.5 PPM

### • MEDIA OVERVIEW

#### Applications

#### ANTHRACITE

##### Advantages

- Higher service flows and longer filter runs than equivalent sand filters.
- Close attention to gradation, hardness and purity assures consistent and reliable performance.
- Unique density allows anthracite to be combined with other filtration media in multi-media filters.
- Lower uniformity coefficient has less oversized and undersized particles resulting in a highly uniform bed.

##### Properties

- Color: Black
- Bulk Density: 50 lbs./ cu. ft.
- Hardness: 3.0-3.8 (Mohs scale)
- Effective Size:
  - #1 Anthracite: 0.6-0.8 mm
  - #1 1.5 Anthracite: 0.85-0.95 mm
  - #2 Anthracite: 1.7-2.0 mm
- Uniformity Coefficient:
  - #1 Anthracite: <1.7
  - #1 1.5 Anthracite: <1.7
  - #2 Anthracite: <1.6
- Mesh Size:
  - #1 Anthracite: 14 x 30
  - #1 1/5 Anthracite: 10 x 20
  - #2 Anthracite: 4 x 12
- Acid Solubility: <1%
- Caustic Solubility: <1%
- Apparent Specific Gravity: 1.6 gm/cc
- Meets AWWA Standard B100-96

##### Operating Conditions

- Bed Depth: 24-36 in., 10-18 in. multi-bed filters
- Freeboard: 50% of bed depth (min.)
- Service Flow rate: 5 gpm/sq. ft. or higher depending on local conditions
- Backwash flow rate:
  - #1 Anthracite: 12-18 gpm / sq. ft.
  - #1 1/5 Anthracite: 18-25 gpm / sq. ft.
  - #2 Anthracite: 18-25 gpm /sq. ft.
- Backwash bed expansion: 20-40% of bed depth

#### ACTIVATED CARBON

##### Advantages

- Activated Carbon is an outstanding material for applications regarding taste, odor and dissolved organic chemical removal from water with suspended matter present. This product can be used for filtering waters having a wide range of pH levels.
- Large surface area results in an exceptionally high capacity and efficiency.
- Balanced pore structure gives a more efficient adsorption range.
- Durable so losses due to attrition are kept to a minimum.
- High carbon-low ash content
- Service rates of 5 gpm/sq.ft. are practical for ordinary taste, odor and chlorine loads.
- Activated Carbon will impart a high "polish" to the filtered water.

##### Properties

- Color: Black
- Mesh Size: 12 x 40
- Bulk Density: 27 lbs./ cu. ft.
- Specific Gravity: 1.4-1.5 gm/cc
- Effective Size: 0.55-0.75 mm, 0.65 typical
- Water Soluble Ash: less than 0.5%
- Iodine#: 850 min., 900 typical
- Abrasion #: 75 min., 81 typical
- Moisture as packed: 2% max., 0.7% typical
- Meets AWWA Standard B604-96

##### Operating Conditions

- Water to be filtered should preferably be free of oil and suspended matter
- The water to be filtered should be relatively free of iron and turbidity for maximum service life
- Water pH range: wide range
- Bed Depth: 26-30 in.
- Freeboard: 50% of bed depth (min.)
- Service flow rate: 5 gpm/sq. ft.
- Backwash flow rate: 10-12 gpm/sq. ft.
- Backwash bed expansion: 30-40% of bed depth
- Upon installation, allow the media to soak overnight prior to backwash, then backwash to remove carbon fines before placing unit into service

## • MEDIA OVERVIEW

### Applications

#### BIRM

##### Advantages

- Under the proper conditions, no chemicals to purchase for maintenance. Regeneration not required.
- Iron removal efficiency is extremely high. Negligible labor cost: only periodic backwashing required.
- Durable material with a long life and wide temperature range.
- Weighs only 40-45 lbs./ cu.ft.

##### Properties

- Color: Black
- Bulk Density: 40-45 lbs./ cu. ft.
- Mesh Size: 10 x 40
- Specific Gravity: 2.0 gm/ cc
- Effective Size: 0.48 mm
- Uniformity Coefficient: 2.7

##### Operating Conditions

- Alkalinity should be greater than two times the combined sulfate and chloride concentration.
- Water pH range: 6.8-9.0
- Dissolved Oxygen (D.O.) content must be equal to at least 15% of the iron (or iron and manganese) content.
- Bed Depth: 30-36 in.
- Freeboard: 50% of bed depth (min.)
- Backwash rate: 10-12 gpm/sq. ft.
- Backwash bed expansion: 20-40% of bed depth
- Service flowrate: 3.5 - 5 gpm/sq. ft. intermittent flow rates and/or favorable local conditions may allow higher flow rates.
- Free chlorine concentration less than 0.5 ppm.
- Hydrogen Sulfide should be removed prior to the Birm filter

#### CALCITE

##### Advantages

- Naturally occurring material
- Low uniformity coefficient for maximum contact for controlled pH correction.
- Slower reacting for controlled pH correction.
- Inexpensive.

##### Properties

- Color: Near White
- Mesh Size: 16 x 40
- Bulk Density: 90 lbs./ cu. ft.
- Specific Gravity: 2.7
- Effective Size: 0.4
- Uniform Coefficient: 1.5
- Hardness: 3.0 (Mohs scale)
- Composition:  $\text{CaCO}_3$  95% min.,  $\text{MgCO}_3$  3.0% max.

##### Operating Conditions

- A gravel support bed is recommended
- Water pH range: 5.0-7.0
- Bed Depth: 24-30 in.
- Freeboard: 50% of bed depth (min.)
- Backwash rate: 8-12 gpm/sq. ft.
- Backwash bed expansion: 35% of bed depth
- Service flow rate: 3 - 6 gpm/sq. ft. but may be modified to adapt to local conditions

### • MEDIA OVERVIEW

#### Applications

#### COROSEX

##### Advantages

- High degree of activity and speed of correction allowing high flow
- High capacity...less chemical usage

##### Properties

- Color: Brownish white
- Bulk Density: 75 lbs./ cu. ft.
- Mesh Size: 6 x 16
- Specific Gravity: 3.6 gm/cc
- Effective Size: 1.4 mm
- Uniform Coefficient: 1.7
- Composition: MgO 97% min.

##### Operating Conditions

- Downflow service is generally satisfactory on waters with a hardness of less than 5 GPG or where it is combined with Calcite at least 50-50. Upflow service is generally recommended with hardness exceeding 5 GPG to prevent "cementing of the Corosex bed"
- Use distributors designed for upflow applications
- A gravel support bed is recommended
- Water pH range: 4.5-6.0
- Bed Depth: 24-30 in.
- Freeboard: 50% of bed depth (min.)
- Backwash frequently to prevent possible cementing
- Backwash rate: 10 - 12 gpm/sq. ft.
- Service flow rate: 5-6 gpm/sq. ft. but may be modified to adapt to local conditions

\*Please note: Under certain low-flow conditions, Corosex may overcorrect and create a highly basic (high pH) condition.

#### FILTER - Ag

##### Advantages

- There is less pressure loss through a bed of Filter - Ag than through most other filter medias.
- Light weight requires lower backwash rates than those required for other filter medias.
- High service rates result in lower equipment costs and a savings in space.
- High sediment reduction capacity results in longer filter runs, with a substantial savings in backwash water and time out of service.
- Reduced shipping cost due to light weight/ cu.ft.
- Replacement of sand filter Ag in existing installations may increase filter capacity 100% or more. (Caution should be taken upon start-up that the lightweight Filter-Ag is not washed to drain.)

##### Properties

- Color: Light grey to near white
- Mesh Size: 12 x 30
- Bulk Density: 24-26 lbs./ cu. ft.
- Specific Gravity: 2.25 gm/cc
- Effective Size: 0.67 mm
- Uniform Coefficient: 1.8
- Hardness: 6 (Mohs scale)

##### Operating Conditions

- Water pH range: wide range
- Maximum water temperature: 140°F / 60°C
- Bed Depth: 24-36 in.
- Freeboard: 50% of bed depth (min.)
- Service flow rate: 5 gpm/sq. ft., although considerably high rates are often used
- Backwash flow rate: 8-10 gpm/sq. ft.
- Backwash bed expansion: 20-40% of bed depth
- Upon installation allow bed to soak overnight before backwashing

## • MEDIA OVERVIEW

### Applications

#### FILTER SAND and GRAVEL

##### Advantages

- Filter Sand and Gravel is graded specifically for water filtration plants
- Filter Sand can be used in municipal, industrial or residential applications
- The spherical shape of uncrushed gravel promotes good flow and even distribution

##### Properties

###### Filter Sand

- Color: Light tan to reddish brown
- Density: 100 lbs./ cu. ft.
- Mesh Size: 18 x 35 \*
- Specific Gravity: 2.65-2.75
- Effective Size: 0.45-0.55 mm\*
- Uniform Coefficient: 1.6 or less\*

##### Operating Conditions

###### Filter Sand

- Bed Depth: 18- 30 in.
- Freeboard: 50% of bed depth (min.)
- Backwash flow rate: 15-20 gpm/sq. ft.
- Backwash bed expansion: 20% of bed depth
- Service flow rate:  
Municipal: 1.5-2 gpm/sq. ft.  
Industrial: 3 gpm/sq.ft.  
Domestic: 5gpm/sq.ft.

#### GARNET

##### Advantages

- High specific gravity allows unique filter design
- In combination with other filter medias, higher flow rates, higher loading and better filtration can be achieved
- High hardness reduces attrition and provides for years of reliable service
- An excellent support bed for other high density medias  
Garnet meets AWWA B100-96 specifications

##### Properties

- Color: Light tan to reddish purple
- Type: Almandite
- Crystal System: Cubic
- Hardness: 7.0-7.5 (Mohs scale)
- Bulk Density:  
#8 Garnet: 140 lbs./ cu. ft.  
#8-12 Garnet: 140 lbs./ cu. ft.  
#30-40 Garnet: 130 lbs./ cu. ft.
- Effective Size:  
#8 Garnet: 2.0 mm  
#8-12 Garnet: 1.5mm  
#30-40 Garnet 0.35 mm
- Uniformity Coefficient:  
#8 Garnet: 1.3  
#8-12 Garnet: <1.5  
#30-40 Garnet: 1.4
- Specific Gravity: 3.8-4.2 gm/cc
- Free Silica: Minimal
- Acid Solubility: Minimal

##### Operating Conditions

- Wide range - application specific

\* All physical properties and conditions for operation are the same for gravel with the exception of mesh size, effective size and uniformity coefficient.

### • MEDIA OVERVIEW

#### Applications

#### Manganese Greensand

##### Advantages

- Iron reduction over wide pH range
- Effective reduction of hydrogen sulfide in addition to iron and/or manganese
- No harmful effects from a chlorine feed
- Low attrition for long bed life

##### Properties

- Color: Black
- Bulk Density: 85 lbs./ cu. ft.
- Mesh Size: 6 x 16
- Specific Gravity: 2.4- 2.9
- Effective Size: 0.3-0.35 mm
- Uniform Coefficient: 1.6
- Mesh Size: 16-60
- Attrition Loss Per Year: 2%

##### Operating Conditions

- Water pH range: 6.2-8.5
- Maximum water temperature: 80°F / 26.7°F
- Bed Depth: 30 in.
- Freeboard: 50% of bed depth (min.)
- Backwash flow rate: 10 - 12 gpm/sq. ft.
- Service flow rate: 3-5 gpm/sq. ft.
- Backwash flow rate: 10-12 gpm/sq. ft.
- Backwash bed expansion: 40% of bed depth (min.)
- Regeneration: 1.5-2 oz of  $\text{KMnO}_4$  by weight per cu. ft.
- Maximum practical limit of iron ( $\text{Fe}^{++}$ ) or manganese ( $\text{Mn}^{++}$ ) in raw water: 15
- Maximum practical limit of hydrogen sulfide ( $\text{H}_2\text{S}$ ): 5ppm

##### Capacity Per Cubic Foot

- Iron alone  
600 grains (10,000 gal. of water containing 1ppm iron/cu. ft.)
- Iron and manganese  
400 grains (7,000 gal. of water containing  $^{1/2}$  ppm iron and  $^{1/2}$  ppm manganese/ cu. ft.)
- Hydrogen sulfide  
175 grains (3,000 gal. of water containing 1 ppm hydrogen sulfide/ cu. ft.)

#### MTM

##### Advantages

- Broad operating range for iron reduction
- Lower pressure loss through the bed with high flock holding capacity
- Effective hydrogen sulfide, iron and manganese reduction
- Light weight requires lower backwash rates and reduces pumping requirements
- Chlorine can be beneficial in extending filter run times
- Low attrition loss for long bed life
- Lower shipping cost

##### Properties

- Color: Dark brown
- Mesh Size: 14 x 40
- Bulk Density: 39 lbs./ cu. ft.
- Specific Gravity: 2.25 gm/cc
- Effective Size: 0.67 mm
- Uniform Coefficient: 1.8
- Hardness: 6 (Mohls scale)

##### Operating Conditions

- Water pH range: 6.2-8.5
- Maximum water temperature: 100°F / 38°C
- Bed Depth: 24-36 in.
- Freeboard: 50% of bed depth (min.)
- Service flow rate: 5 gpm/sq. ft., 8-10 gpm/sq. ft. intermittent flow possible
- Backwash flow rate: 8-10 gpm/sq. ft.
- Backwash expansion rate: 20-40% of bed depth (min.)
- Regenerant dosage: 1 1/2-2 oz of  $\text{KMnO}_4$  by weight per cu. ft.

##### Influent Limitations

Oil: None  
Polyphosphates: None

##### Capacity Per Cubic Foot

- Iron ( $\text{Fe}^{+2}$ ) alone  
600 grains (10,000 ppm iron/cu. ft.)
- Manganese ( $\text{Mn}^{+2}$ ) alone  
300 grains (5,000 ppm)
- Hydrogen Sulfide ( $\text{H}_2\text{S}$ ) alone  
175 grains (3,000 ppm)



## MEDIA, RESIN, AND CHEMICALS

### CHEMICALS



RESUP



RESUP FEEDER



PRO RUST OUT

PART NO.	DESCRIPTION	UNIT CTN / LBS
50ALUM	50 LB BAG ALUM	1.00
100ALUM	100 LB BAG ALUM	1.00
AM41N	1 GALLON AQUA MAG	4.00
AM05N	5 GALLON AQUA MAG	1.00
AM15N	15 GALLON AQUA MAG	1.00
AM30N	30 GALLON AQUA MAG	1.00
AM55N	55 GALLON AQUA MAG	1.00
5CHLOR	5 LB PRO-CHLORINE PELLETS	4.00
10CHLOR	10 LB PRO-CHLORINE PELLETS	4.00
35CHLOR	35 LB PRO-CHLORINE PELLETS	1.00
GP10C	1.5 LB BOTTLE POLY GUARD CRYSTALS	6.00
GP63N	3 LB BOTTLE POLY GUARD CRYSTALS	6.00
GP50N	50 LB PAIL POLY GUARD CRYSTALS	1.00
HP41N	NEUTRA SUL 1 GALLON (HYDROGEN PEROXIDE)	4.00
HP22N	NEUTRA SUL CARBOY (HYDROGEN PEROXIDE)	6.00
KC65N	POTASSIUM PERMANGANATE COURSE 5 LB BOTTLE	6.00
24POT	PRO-POTASSIUM PERMANGANATE 1.5 LB BOTTLE	12.00
5POT	PRO-POTASSIUM PERMANGANATE 5 LB BOTTLE	6.00
10POT	PRO-POTASSIUM PERMANGANATE 10 LB BOTTLE	4.00
KF55N	PRO-POTASSIUM PERMANGANATE 55 LB PAIL	1.00
LW12N	PRO LAUNDRY WHITENER 1.5 BOTTLE	12.00
5POLY	5 LB PRO-POLYPHOSPHATES	6.00
50POLY	50 LB PRO-POLYPHOSPHATES	1.00
RK32N	1 QT BOTTLE RESIN MATE	12.00
RK41N	1 GALLON BOTTLE RESIN MATE	4.00
18IRON	18 OZ JAR IRON OUT	12.00
5IRON	5 LB JAR IRON OUT	6.00
50IRON	50 LB BULK IRON OUT #50IRON	1.00
1CIT	1 LB PRO-CITRIC ACID	12.00
4CITR	4 LB PRO-CITRIC ACID	6.00
RU45N	45 LB PAIL PRO-CITRIC ACID	1.00
4SODA	4 LB PRO-SODA ASH	6.00
45SODA	45 LB PRO-SODA ASH	1.00
SM12N	PRO SOFTENER MATE 24 OZ BOTTLE	12.00
SM65N	PRO SOFTENER MATE 5 LB BOTTLE	6.00
ST32N	20 OZ BOTTLE STILL CLEAN	12.00
ST50N	50 LB PAIL STILL CLEAN	1.00
WICK05	WICK 1/2 OZ FOR RESUP FEEDER	1.00
WICK10	WICK 1 OZ FOR RESUP FEEDER	1.00
WS12N	PRO PRODUCTS SANI WELL 1 LB BOTTLE	12.00
LR12N	PRO LIQUID RUST OUT	12.00
TT12N	22 OZ PRO-ALL OUT SPRAY	12.00
WF05N	RES CARE FEEDER .5 OZ	1.00
WF10N	RES CARE FEEDER 1 OZ	1.00

## MEDIA, RESIN, AND CHEMICALS

### • REVERSE OSMOSIS CHEMICALS

Avista

#### Antifoulants, Coagulants & Cleaners



Part #	Description	Gal.	Lbs.
T2401	Vitec 1000 (liq) Antiscalant	5	45
T2401D	Vitec 1000 (liq) Antiscalant	55	525



T2402	Vitec 2000 (liq) Antiscalant	5	45
T2402D	Vitec 2000 (liq) Antiscalant	55	500



T2403	Vitec 3000 (liq) Antiscalant	5	45
T2403D	Vitec31000 (liq) Antiscalant	55	500

T2404	Vitec 4000 (liq) Antiscalant	5	45
T2404D	Vitec 4000 (liq) Antiscalant	55	500

T2430	RoQuest 3000 Coagulant	5	45
T2430D	RoQuest 3000 Coagulant	55	500
T2440	RoClean L102 (liq) Cleaner	5	45
T2450	RoClean L211 (liq) Cleaner	5	45
T2503	RoClean L403 (liq) Cleaner	5	45
T2504	RoClean L607 (liq) Cleaner	5	45
T2511	RoClean L811 (liq) Cleaner	5	45
T2567A	RoClean P303 (pwd) Cleaner	5	45
T2568A	RoClean P111 (pwd) Cleaner	5	45
T2570A	Bio Source DB-20 (Bio-Control) liq	5	50

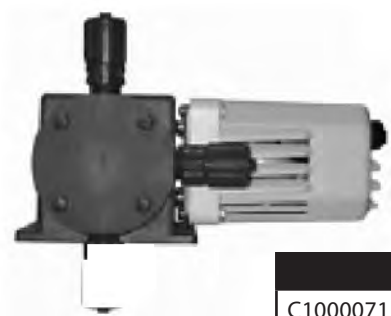
KEY: (pwd) = Powder (liq) = Liquid

#### Chlorine Pellets

PART NO.	DESCRIPTION	UNIT CTN / LBS
WPCP9	3.5# BOTTLE - AUTROL WPCP9 70%	9/36
SENCHLPEL	SENTRY 5 LB CHLORINE PELLETS	6/32
SENCHLPEL 10	SENTRY 10 LB CHLORINE PELLETS	4/42
LP35	CALCIUM HYPOCHLORITE PELLETS 35# PAIL	1
LP36	CALCIUM HYPOCHLORITE PELLETS 4# JAR	9
LP28	LAND-O-MATIC PELLETS 14# JAR	2

## SYSTEM ACCESSORIES AND COMPONENTS

- CHEMICAL FEED EQUIPMENT
- PUMPS



PART NO.	DESCRIPTION
C100007115	CHEM-TECH SERIES 100, 7GPD, 115V
C100007230	CHEM-TECH SERIES 100, 7GPD, 230V
C100015115	CHEM-TECH SERIES 100, 15GPD, 115V
C100015230	CHEM-TECH SERIES 100, 15GPD, 230V
C100024115	CHEM-TECH SERIES 100, 24GPD, 115V
C100024230	CHEM-TECH SERIES 100, 24GPD, 230V
C100030115	CHEM-TECH SERIES 100, 30GPD, 115V
C100030230	CHEM-TECH SERIES 100, 30GPD, 230V



PART NO.	DESCRIPTION
85MJH2A1STAA	STENNER 85 SERIES, 17GPD, 115V
85MJH2B1STAA	STENNER 85 SERIES, 17GPD, 230V

## SYSTEM ACCESSORIES AND COMPONENTS

- CHEMICAL FEED EQUIPMENT
- TANKS

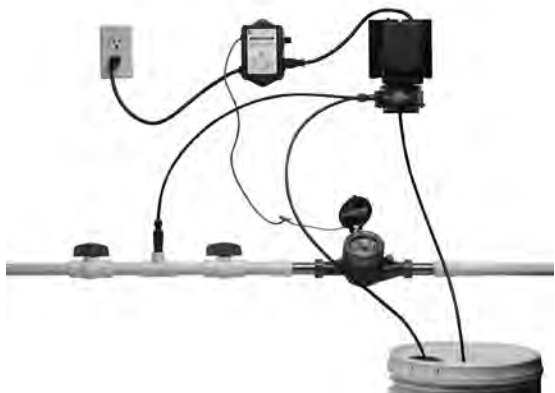


Stenner Pump/Tank Set-up

STS30N45MHP10A - 115V, 10gpd, 30gal tank  
 STS30N45MHP10B - 230V, 10gpd, 30gal tank



**T4121:** 15 gallon solution tank, natural  
**T4122:** 35 gallon solution tank, natural



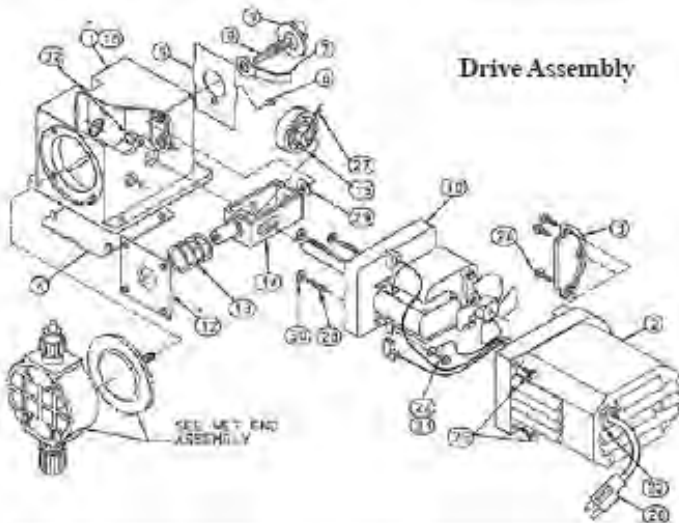
PCM1	0.1 - 1.0 Sec
PCM5	0.5 - 5.0 Sec
PCM10	1.0 - 10.0 Sec

### Series PCM “ Pump Control Module”

Interfaces with Stenner metering pumps and contact water meters for proportional feed. Ideal for injecting solutions based on actual flow rate for various water treatment applications: Sulfur, Cooling Tower, Oxidation, pH Control, Disinfection, Livestock Feed

## SYSTEM ACCESSORIES AND COMPONENTS

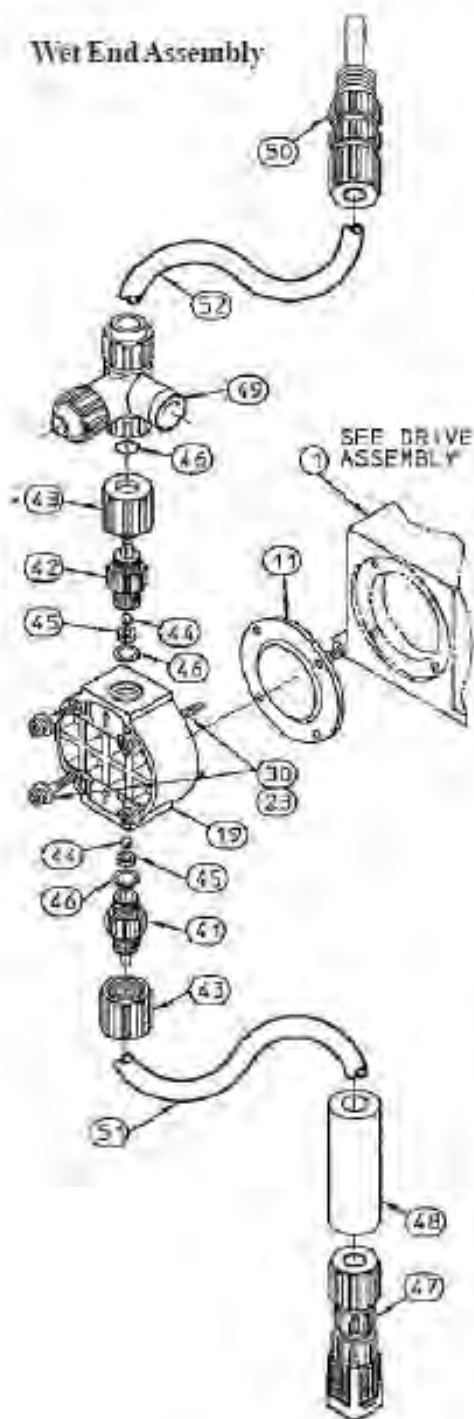
- CHEMICAL FEED EQUIPMENT
- CHEM-TECH SERIES 100 PARTS



ITEM	PART NUMBER	DESCRIPTION	QUANTITY
*1	J30496	HOUSING, S100 3, 7, 15, 30-GPD	1
	J30497	HOUSING, S100 24-GPD	
2	25180	COVER, MOTOR	1
	J25212	COVER, MOTOR CE	
3	34405	PLATE, COVER MOTOR	1
4	34385	PLATE, BOTTOM HOUSING	1
5	25396	LABEL, DIAL	1
6	33760	PIN, STOP	1
7	31081	LEVER, LOCK S100	1
8	37089	SCREW, OP ADJUST S100	1
9	30460	KNOB, OUTPUT ADJUST	1
10	32520/32524	MOTOR, 7-RPM 115V & 230V/60HZ	1
	32521/32525	MOTOR, 13-RPM 115V & 230V/60HZ	
	32522/32526	MOTOR, 25-RPM 115V & 230V/60HZ	
	32523/32527	MOTOR, 51-RPM 115V & 230V/60HZ	
	32532/32535	MOTOR, 70-RPM 115V & 230V/60HZ	
13	38980	SPRING, DIAPHRAGM RETURN	1
14	21829	BRACKET ASS'Y, DRIVE	1
15	22255	CAM/BEARING ASSY S100 3, 7, 15, 30-GPD	1
	22256	CAM/BEARING ASSY S100 24-GPD	
20	24820	CORD, 6 FT. 115 VAC	1
	24821	CORD, 6 FT. 230 VAC	
22	L9900700000	STRAIN RELIEF	1
	J35762	STRAIN RELIEF, CE	
24	37031	SCREW, #8-AB X .38" LG H.W. HD	1
25	37032	SCREW, #8-B X .44" LG H.W. HD	2
26	J37033	SCREW, #8-B X .50" LG H.W. HD	3
27	37047	SCREW, SET 10-32 X .25" LG	2
28	37049	SCREW, SET 10-32 X .75" LG	3
29	42041	WASHER, .26" I.D. STL	1
30	J42020	WASHER, #10 STL	3
31	42045	WASHER, #8 EXT. RH LOCK STL	1
32	L9800600STL	NUT, #10-32 HEX	3
		*ITEMS INCLUDED IN HOUSING #1	

## SYSTEM ACCESSORIES AND COMPONENTS

- CHEMICAL FEED EQUIPMENT
- CHEM-TECH SERIES  
100 PARTS

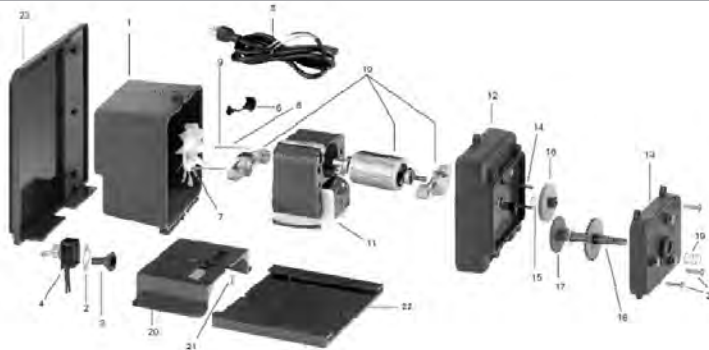


ITEM	PART NUMBER	DESCRIPTION	QUANTITY
11	25704	DIAPHRAGM, (HYPALON), ASS'Y	1
	25706	DIAPHRAGM, (VITON), ASS'Y	
	25707	DIAPHRAGM, (TEFLON), ASS'Y	
19	288000	HEAD, PUMP (SAN) ACRYLIC	1
	J28801	HEAD, PUMP (PVC)	
	28803	HEAD, PUMP (FPP)	
23	J37005	SCREW, #10-24 X 2" LG. P.H.P. SST	4
30	J42020	WASHER, #10 STL	4
41	J41548	BODY, SUCTION VALVE (PVC) .5" - TUBE	1
	41551	BODY, SUCTION VALVE (PVC) .38" - TUBE	
42	J41540	BODY, DISCHARGE VALVE (PVC) .5" - TUBE	1
	41541	BODY, DISCHARGE VALVE (FPP) .5" - TUBE	
	41543	BODY, DISCHARGE VALVE (PVC) .38" - TUBE	
	41544	BODY, DISCHARGE VALVE (FPP) .38" - TUBE	
*43	J24960	NUT, COUPLING (PVC) .50" STD	2
	24961	NUT, COUPLING (FPP) .50" STD	
	24963	NUT, COUPLING (PVC) .38" STD	
	24964	NUT, COUPLING (FPP) .38" STD	
44	J20560	BALL, VALVE CERAMIC	2
45	J37440	SEAT, VALVE (HYP)	2
	J37442	SEAT, VALVE (VIT)	
46	J27903	GASKET, TFE	2-3
47	J40116	STRAINER ASS'Y/FOOT VALVE (FPP/HYP/C) .38"	1
	J60524	STRAINER ASS'Y/FOOT VALVE (FPP/VTN/C) .38"	
	J40117	STRAINER ASS'Y/FOOT VALVE (FPP/HYP/C) .50"	
	J60509	STRAINER ASS'Y/FOOT VALVE (FPP/VTN/C) .38"	
48	L9906700000	WEIGHT, STRAINER	1
49	J30507	KIT, BLEED VALVE PVC/HYP/ .38" - TUBE	1
	J30509	KIT, BLEED VALVE PVC/VTN/ .38" - TUBE	
	J30510	KIT, BLEED VALVE PVC/TFE/ .38" - TUBE	
	J30511	KIT, BLEED VALVE FPP/HYP/ .38" - TUBE	
	J30513	KIT, BLEED VALVE FPP/VTN/ .38" - TUBE	
	J30514	KIT, BLEED VALVE FPP/TFE/ .38" - TUBE	
	J30515	KIT, BLEED VALVE PVC/HYP/ .50" - TUBE	
	J30517	KIT, BLEED VALVE PVC/VTN/ .50" - TUBE	
	J30518	KIT, BLEED VALVE PVC/TFE/ .50" - TUBE	
	J30519	KIT, BLEED VALVE FPP/HYP/ .50" - TUBE	
	J30522	KIT, BLEED VALVE FPP/TFE/ .50" - TUBE	
50	41693	INJECTION FITTING PVC/HYP/C .38"	1
	J41694	INJECTION FITTING PVC/HYP/C .50"	
51	00006	SUCTION TUBING (PVC) .44"	4
	00007	SUCTION TUBING (PVC) .38"	
52	00008	DISCHARGE TUBING (PE) WHITE .50"	8
	00009	DISCHARGE TUBING (PE) BLACK .50"	
	00010	DISCHARGE TUBING (PE) WHITE .38"	
	00011	DISCHARGE TUBING (PE) BLACK .38"	
53	J39010	SPRING, INJECTION CALVE BACKCHECK (NOT SHOWN)	1
		*NOT USED WITH BLEED VALVE	



## SYSTEM ACCESSORIES AND COMPONENTS

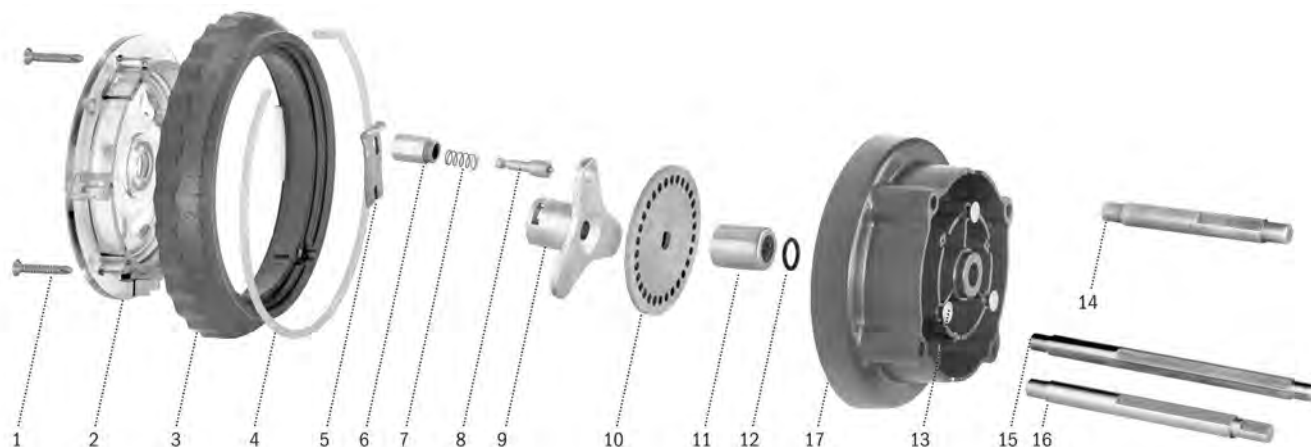
- CHEMICAL FEED EQUIPMENT
- STENNER PARTS



GEAR MOTOR ASSEMBLIES			
ITEM	PART NUMBER	DESCRIPTION	U/M
	PM6081D	SERIES 85 & 170 COMPLETE GEAR MOTOR 120 VAC 60 HZ	
	PM6082D	SERIES 85 & 170 COMPLETE GEAR MOTOR 220 VAC 60 HZ	
GEAR MOTOR PARTS			
1	PM6A0BL	MOTOR COVER WITH CORD (120 VAC)	EA
	PM6A0OL	MOTOR COVER WITH CORE (220 VAC)	EA
2	MP6D000	ON-OFF SWITCH PLATE	EA
3	MP6C000	SWITCH BOOT	EA
4	PM6E000	TOGGLE SWITCH	EA
	PM6E001	WIRE CONNECTOR (NOT SHOWN)	EA
5	MP6B010	POWER CORD 120 VAC	EA
	MP6B020	POWER CORD 220 VAC	EA
6	MP6V000	STRAIN RELIEF BUSHING	EA
7	PM6F000	MOTOR FAN	EA
8 & 9	PMS00G1	COIL SCREW "G" W/ LOCK WASHER	EA
10	PMBRPL2	ROTOR ASS'Y W/ BEARINGS, BRACKETS, AND TOLERANCE RINGS	EA
11	MP6J115	COIL 120 VAC 60 HZ	EA
	MP6J226	COIL 220 VAC 60 HZ	EA
	MP6J223	COIL 230 VAC 50 HZ (INTERNATIONAL)	EA
	MP6J222	COIL 250 VAC 50 HZ (INTERNATIONAL)	EA
12	PM6K0BL	GEAR CASE	EA
13	PM6R0BL	GEAR CASE COVER	EA
14	PM6M000	GEAR POSTS	EA
15	MP6P000	THRUST WASHER	EA
16	MP6N040	PHENOLIC GEAR W/GEAR SPACER (26 RPM, SERIES 45 & 100)	EA
	MP6N080	PHENOLIC GEAR W/GEAR SPACER (44 RPM, SERIES 85 & 170)	EA
	PM6M001	PHENOLIC GEAR SPACER (NOT SHOWN)	EA
17	MP6O040	METAL REDUCTION GEAR (26 RPM, SERIES 45 & 100)	EA
	MP6O080	METAL REDUCTION GEAR (44 RPM, SERIES 85 & 100)	EA
18	MP6Q00D	MOTOR SHAFT W/ GEAR (ADJUSTABLE RATE MODELS)	EA
19	MP6T000	PRESSURE SPRING	EA
20	MP70000	MOTOR BASE	EA
21	PMS000D	MOTOR BASE SCREW "D"	EA
22	MP80000	MOUNTING BRACKET	EA
23	MP90000	RAIN ROOF	EA
24	UCCPS0B	COVER SCREW "B" (PACKAGE OF 10)	PK
	MCCPS0B	COVER SCREW "B" (PACKAGE OF 24)	PK

## SYSTEM ACCESSORIES AND COMPONENTS

- CHEMICAL FEED EQUIPMENT
- STENNER PARTS

**FEED RATE CONTROLS**

ITEM	PART NUMBER	DESCRIPTION	U/M
	FC5040D	SINGLE HEAD FEED RATE CONTROL W/ SHAFT	EA
	DM5040D	DOUBLE HEAD FEED RATE CONTROL W/ SHAFT	EA
	DM504DC	DUAL HEAD DUAL FEED RATE CONTROL W/ SHAFT	EA

**FEED RATE PARTS**

1	FCS000A	FRC SCREW A	EA
2	FC5N000	FEED RATE MOUNTING PLATE	EA
3	FC5M040	DIAL RING	EA
4	UCFC5H0	VARIABLE CAM (PACKAGE OF 2)	PK
	MCFC5H0	VARIABLE CAM (PACKAGE OF 5)	PK
	UCFC5AY	INDEX PIN ASS'Y WITH LIFTER (PACKAGE OF 1) (NOT SHOWN)	PK
	MCFC5AY	INDEX PIN ASS'Y WITH LIFTER (PACKAGE OF 2) (NOT SHOWN)	PK
5	UCFC5L1	INDEX PIN LIFTER (PACKAGE OF 2)	PK
	MCFC5L1	INDEX PIN LIFTER (PACKAGE OF 5)	PK
6	FC5L003	INDEX PIN HOLDER	EA
7	FC5L005	INDEX PIN SPRING	EA
8	FC5L002	INDEX PIN	EA
9	FC5K00D	INDEX SPIDER	EA
10	UCFC5ID	INDEX PLATE (PACKAGE OF 1)	PK
	MCFC5ID	INDEX PLATE (PACKAGE OF 5)	PK
11	FC5F000	ROLLER CLUTCH	EA
12	FC5E000	O-RING SEAL 3/8"	EA
13	FCS000C	MOUNTING RIVIT "C"	EA
14	UCFC5AD	MAIN SHAFT FOR SINGLE HEAD-ADJUSTABLE RATE (PACKAGE OF 1)	PK
	MCFC5AD	MAIN SHAFT FOR SINGLE HEAD-ADJUSTABLE RATE (PACKAGE OF 2)	PK
15	DM5A00D	MAIN SHAFT FOR DOUBLE HEAD ADJUSTABLE RATE	EA
16	DM5A0DC	MAIN SHAFT FOR DUAL HEAD DUAL CONTROL-ADJUSTABLE RATE	EA
17	FC5D00S	FEED RATE HOUSING W/ ROLLER CLUTCH, SEAL, AND RIVITS	EA

## SYSTEM ACCESSORIES AND COMPONENTS

- CHEMICAL FEED EQUIPMENT
- STENNER PARTS

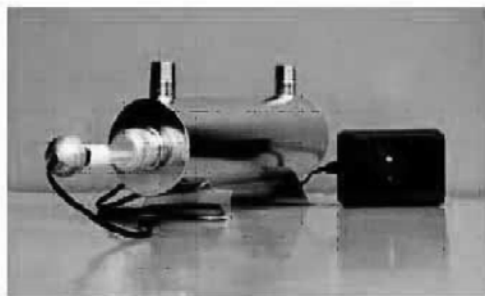
<b>PUMP TUBES (FERRULES INCLUDED)</b>		
<b>PART NUMBER</b>	<b>DESCRIPTION</b>	<b>U/M</b>
UCCP201	#1 PUMP TUBE (PACKAGE OF 2)	PK
MCCP201	#1 PUMP TUBE (PACKAGE OF 5)	PK
UCCP1FD	#1 PUMP TUBE (PACKAGE OF 2, FERRULES 1/4" & DUCKBILL INCL.)	PK
UCCP202	#2 PUMP TUBE (PACKAGE OF 2)	PK
MCCP202	#2 PUMP TUBE (PACKAGE OF 5)	PK
UCCP2FD	#2 PUMP TUBE (PACKAGE OF 2, FERRULES 1/4" & DUCKBILL INCL.)	PK
UCCP203	#3 PUMP TUBE (PACKAGE OF 2)	PK
MCCP203	#3 PUMP TUBE (PACKAGE OF 5)	PK
UCCP204	#4 PUMP TUBE (PACKAGE OF 2)	PK
MCCP204	#4 PUMP TUBE (PACKAGE OF 5)	PK
UCCP205	#5 PUMP TUBE (PACKAGE OF 2)	PK
MCCP205	#5 PUMP TUBE (PACKAGE OF 5)	PK
UCCP207	#7 PUMP TUBE (PACKAGE OF 2) SINGLE HEAD ONLY	PK
MCCP207	#7 PUMP TUBE (PACKAGE OF 5) SINGLE HEAD ONLY	PK
UCCP7FD	#7 PUMP TUBE (PACKAGE OF 2, FERRULES 1/4" & DUCKBILL INCL.)	EA



<b>PUMP HEAD PARTS</b>			
<b>ITEM</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>	<b>U/M</b>
1	UCCP400	TUBE HOUSING ONLY (PACKAGE OF 1)	PK
	MCCP400	TUBE HOUSING ONLY (PACKAGE OF 2)	PK
2	UC3ASYD	ROLLER ASSEMBLY (PACKAGE OF 1)	PK
	MC3ASYD	ROLLER ASSEMBLY (PACKAGE OF 4)	PK
3	CP33000	STANDARD ROLLER	EA
4	UCCP100	TUBE HOUSING COVER BUSHING INCLUDED (PACKAGE OF 1)	PK
	MCCP100	TUBE HOUSING COVER BUSHING INCLUDED (PACKAGE OF 4)	PK
5	UCCPS0B	COVER SCREW "B" (PACKAGE OF 10)	PK
	MCCPS0B	COVER SCREW "B" (PACKAGE OF 24)	PK
	UCDM1A0	ADAPTER TUBE HOUSING COVER (PACKAGE OF 1) (NOT SHOWN)	PK
	MCDM1A0	ADAPTER TUBE HOUSING COVER (PACKAGE OF 2) (NOT SHOWN)	PK
	CP31RSB	ROLLER SHAFT BUSHING (NOT SHOWN)	EA
	CP100CB	TUBE HOUSING BUSHING ONLY (NOT SHOWN)	EA

## SYSTEM ACCESSORIES AND COMPONENTS

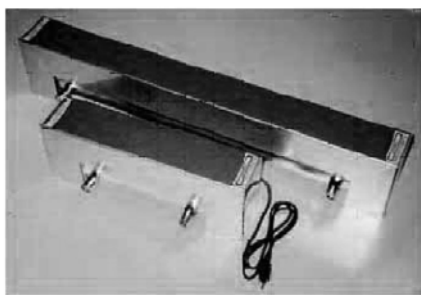
- ULTRAVIOLET EQUIPMENT
- SUNLIGHT SYSTEMS UNITS



SB-SERIES

THE SUNBURST "SB SERIES" HAS BEEN DESIGNED TO TREAT 1, 7, 10, 15, 20, 30, AND 50 GALLON PER MINUTE (GPM) FLOW RATES.

UNIT	GPM	DIMENSIONS L X W X H	INLET SIZE	POWER 120/60	LAMPS	WEIGHT LBS
SB1 (W)	1	20 X 6 X 6	3/4"	.5 AMPS	1	2
SB7 (W)	7	22 X 9 X 9	3/4"	.6 AMPS	1	8
SB10 (W)	10	22 X 9 X 9	3/4"	.7 AMPS	1	10
SB15 (W)	15	39 X 9 X 9	3/4"	.75 AMPS	1	20
SB20 (W)	20	39 X 9 X 9	1"	1 AMP	1	20
SB30 (W)	30	43 X 16 X 14	1-1/2"	1.5 AMPS	2	35
SB50 (W)	50	43 X 16 X 14	2"	3 AMPS	2	40



SBH-SERIES

THE SUNBURST "SBH SERIES" INCORPORATES A STAINLESS STEEL ENCLOSURE AND TREATS 7, 10, 15, AND 20 GPM FLOW RATES.

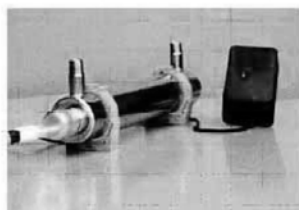
UNIT	GPM	DIMENSIONS L X W X H	INLET SIZE	POWER 120/60	LAMPS	WEIGHT LBS
SBH7	7	22 X 9 X 9	3/4"	.6 AMPS	1	12
SBH10	10	22 X 9 X 9	3/4"	.7 AMPS	1	16
SBH15	15	39 X 9 X 9	3/4"	.75 AMPS	1	25
SBH20	20	39 X 9 X 9	1"	1 AMP	1	25



SB-DOH-SERIES

THE SUNBURST "SB-DOH SERIES" MEETS THE REQUIREMENTS OF MANY OF THE NATION'S HEALTH AGENCIES.

UNIT	GPM	DIMENSIONS L X W X H	INLET SIZE	POWER 120/60	LAMPS	WEIGHT LBS
SB7DOH	7	37 X 9 X 6	3/4"	.6 AMPS	1	26
SB10DOH	10	37 X 9 X 6	3/4"	.7 AMPS	1	26
SB15DOH	15	43 X 16 X 14	3/4"	.75 AMPS	1	40
SB20DOH	20	43 X 16 X 14	1"	1 AMP	1	40
SB30DOH	30	43 X 16 X 14	1.5"	1.5 AMPS	2	45
SB50DOH	50	43 X 16 X 14	2"	3 AMPS	2	45



SLD-SERIES

THE "SLD SERIES" IS AN ECONOMICAL LINE OF DISINFECTION SYSTEMS THAT ARE TO BE USED IN CONJUNCTION WITH OTHER FILTERING EQUIPMENT.

UNIT	VOLTAGE	AMPS	WATTS	LAMPS	ELECTRONICS	UNIT DIMENSIONS L X W X H	ELEC. DIMENSIONS W X D X H
SLD8	120 V 50/60 HZ	.52	14	1	PLUG IN PACK	21 X 6 X 6 533 X 152 X 152	2 X 4 X 2 51 X 102 X 51
SLD12	120 V 50/60 HZ	.60	36	1	WALL ENCLOSURE	21 X 6 X 6 914 X 152 X 152	9 X 6 X 4 299 X 152 X 102

## SYSTEM ACCESSORIES AND COMPONENTS

- ULTRAVIOLET EQUIPMENT
- SUNLIGHT SYSTEMS PARTS

UV

UNIT	LAMP #	QUARTZ #	O-RING #	COMP NUT #	POWER SUPPLIES #	BALLAST #	HARNESS #	WIPER RING #	GASKET #
SB7 (W)	LP4105	QZ0235	OR1005	CN0020	BP6125	N/A	N/A	WPR001 X 2	HGS004
SB10 (W)	LP4425	QZ0235	OR1005	CN0020	PRP020	BP6150	LMH005	WPR001 X 2	HGS004
SB15 (W)	LP4050	QZ0285	OR1005 X 2	CN0020 X 2	BP6040	PRP0022	LMH005	WPR001 X 3	HGS004
SB20 (W)	LP4420	QZ0285	OR1005 X 2	CN0020 X 2	BP6100	BP6155	LMH009	WPR001 X 3	HGS004
SB30 (W)	LP4050 X 2	QZ0285 X 2	OR1005 X 4	CN0020 X 4	BP6045	PRP022 X 2	LMH005 X 2	WPR001 X 6	HGS005
SB40 (W)	LP4775	QZ0285	OR1005 X 2	CN0020 X 2	PRP070	PXA011	LMH010	WPR001 X 3	HGS005
SB50 (W)	LP4420 X 2	QZ0285 X 2	OR1005 X 2	CN0020 X 4	BP6050	BP6155 X 2	LMH009 X 2	WPR001 X 6	HGS005
SBH7	LP4105	QZ0115	OR1005 X 2	CN0010 X 2	PRP002	BP6010	LMH005	N/A	N/A
SBH10	LP4425	QZ0115	OR1005 X 2	CN0010 X 2	PRP003	BP6150	LMH005	N/A	N/A
SBH15	LP4050	QZ0205	OR1005 X 2	CN0010 X 2	PRP001	PRP022	LMH009	N/A	N/A
SBH20	LP4420	QZ0205	OR1005 X 2	CN0010 X 2	PRP004	BP6155	LMH009	N/A	N/A
SBD0H7	LP4105	QZ0235	OR1005	CN0020	BP6125	N/A	N/A	WPR001 X 2	HGS004
SBD0H10	LP4425	QZ0235	OR1005	CN0020	PRP020	BP6150	LMH005	WPR001 X 2	HGS004
SBD0H15	LP4050	QZ0285	OR1005 X 2	CN0020 X 2	BP6040	PRP022	LMH005	WPR001 X 2	HGS004
SBD0H20	LP4420	QZ0285	OR1005 X 2	CN0020 X 2	BP6040	PRP022	LMH010	WPR001 X 3	HGS004
SBD0H30	LP4050 X 2	QZ0285 X 2	OR1005 X 4	CN0020 X 4	BP6045	PRP022 X 2	LMH005 X 2	WPR001 X 6	HGS005
SBD0H40	LP4775	QZ0285	OR1005 X 2	CN0020 X 2	PRP070	PXA011	LMH010	WPR001 X 3	HGS005
SBD0H50	LP4420 X 2	QZ0285	OR1005 X 4	CN0020 X 4	BP6050	BP6155 X 2	LMH009 X 2	WPR001 X 6	HGS005
SLD8	LP4105	QZ0235	OR1005	CN0020	BP6125	N/A	N/A	N/A	N/A
SLD12	LP4305	QZ0280	OR1005	CN0020	BP6040	PRP022	LMH005	N/A	N/A

### OPTIONAL EQUIPMENT

ITEM	PART #
UV MONITOR	MSR002
UV SENSOR	MSR010
UV SENSOR WINDOW	SG0001
UV METER ELECTRONICS	MSR020
UV METER FACE PLATE	MSR015
UV SENSOR O-RING	OR1015
UV SENSOR COMP NUT	CN0015
SOLENOID 3/4" BRASS N/C	VL0001
SOLENOID 3/4" NYLON N/C	VL0003
SOLENOID 1" BRASS N/C	VL0002
SOLENOID 1" NYLON N/C	VL0007
SOLENOID 1.5" BRASS N/C	VL0004
SOLENOID 1.5" NYLON N/C	VL0012
SOLENOID 2" BRASS N/C	VL0005

ITEM	PART #
SOLENOID 2" NYLON N/C	VL0013
SOLENOID 3" BRASS N/C	VL0011
TWO MINUTE WARM UP	TMD003
AUDIBLE, VISUAL STACK ALARM 120 VOLT	ALM006
20 US GPM FLOW CONTROL	FC0005
30 US GPM FLOW CONTROL	FC0006
40 US GPM FLOW CONTROL	FC0012
50 US GPM FLOW CONTROL	FC0007
100 US GPM FLOW CONTROL	FC0019
125 US GPM FLOW CONTROL	FC0024
150 US GPM FLOW CONTROL	FC0009
300 US GPM FLOW CONTROL	FC0025
120 V CONTACT WIRED SOLENOID	VL0024

## SYSTEM ACCESSORIES AND COMPONENTS

- ULTRAVIOLET EQUIPMENT
- TROJAN UNITS AND PARTS



PART NO.	DESCRIPTION
650388	TROJAN UV MAX - A 120V 60HZ, 0 - 3 GPM
650384	TROJAN UV MAX - B 120V 60HZ, 2 - 5 GPM
650692	TROJAN UV MAX - C 120V 60HZ, 5 - 14 GPM
650694	TROJAN UV MAX - D 120V 60HZ, 5 - 14 GPM
650369	TROJAN UV MAX - E 120V 60HZ, 8 - 28 GPM
650363	TROJAN UV MAX - F 120V 60HZ, 13 - 47 GPM
650372	TROJAN UV MAX - D 120V 60HZ W/ UV MONITOR
650366	TROJAN UV MAX - E 120V 60HZ W/ UV MONITOR
650360	TROJAN UV MAX - F 120V 60HZ W/ UV MONITOR
650495	TROJAN UV MAX - PRO 7 120V NSF
650497	TROJAN UV MAX - PRO 15 120V NSF
<b>REPLACEMENT PARTS</b>	
602803	TROJAN BULB MODEL A
602804	TROJAN BULB MODEL B
602805	TROJAN BULB MODEL C/D
602806	TROJAN BULB MODEL E
602807	TROJAN BULB MODEL F
602730	TROJAN QUARTZ SLEEVE FOR UVMAX - A
602731	TROJAN QUARTZ SLEEVE FOR UVMAX - B
602732	TROJAN QUARTZ SLEEVE FOR UVMAX - C/D
602733	TROJAN QUARTZ SLEEVE FOR UVMAX - E
602734	TROJAN QUARTZ SLEEVE FOR UVMAX - F
650414	TROJAN REPLACEMENT KIT FOR UVMAX A
650411	TROJAN REPLACEMENT KIT FOR UVMAX B
650408	TROJAN REPLACEMENT KIT FOR UVMAX C
650405	TROJAN REPLACEMENT KIT FOR UVMAX D
650421	TROJAN REPLACEMENT KIT FOR UVMAX D PLUS
650402	TROJAN REPLACEMENT KIT FOR UVMAX E
650418	TROJAN REPLACEMENT KIT FOR UVMAX E PLUS
650398	TROJAN REPLACEMENT KIT FOR UVMAX F
602806	PRO 7 TROJAN BULB NSF
602733	PRO 7 TROJAN SLEEVE NSF
602807	PRO 15 TROJAN BULB NSF
602734	PRO 15 TROJAN SLEEVE NSF
650505	TROJAN UV INTENSITY MONITOR
602665	TROJAN UV MAX SLEEVE BOLT



## SYSTEM ACCESSORIES AND COMPONENTS

- FILTER HOUSINGS AND SYSTEMS
- PENTEK SLIMLINE SERIES

Part #	Housing Description	Pipe Size	Case Qty.	Case Weight (lbs.)
All Housing Caps Incorporate Mounting Bracket Holes Slimline Housings are Rated at 125 PSI @ 125° F				
158138	5" Slimline Blue w/o Pressure Relief	1/4"	12	16
158133	5" Slimline Clear w/o Pressure Relief	1/4"	12	16
158002	5" Slimline Blue w Pressure Relief	3/8"	12	16
158003	5" Slimline Blue w/o Pressure Relief	3/8"	12	16
158110	5" Slimline Clear w/ Pressure Relief	3/8"	12	19
158111	5" Slimline Clear w/o Pressure Relief	3/8"	12	19
158115	10" Slimline Blue w/ Pressure Relief	1/4"	12	22
158114	10" Slimline Blue w/o Pressure Relief	1/4"	12	22
158116	10" Slimline Clear w/o Pressure Relief	1/4"	12	22
158120	10" Slimline White w/o Pressure Relief	1/4"	12	22
158125	10" Slimline Black w/o Pressure Relief	1/4"	12	22
158005	10" Slimline Blue w/ Pressure Relief	3/8"	12	26
158006	10" Slimline Blue w/o Pressure Relief	3/8"	12	26
158007	10" Slimline Clear w/ Pressure Relief	3/8"	12	26
158008	10" Slimline Clear w/o Pressure Relief	3/8"	12	26
158195	10" Slimline Blue w/ Pressure Relief	1/2"	12	26
158196	10" Slimline Blue w/o Pressure Relief	1/2"	12	26
158214	10" Slimline Clear w/ Pressure Relief	1/2"	12	26
158215	10" Slimline Clear w/o Pressure Relief	1/2"	12	26
158129	20" Slimline Blue w/o Pressure Relief	3/8"	8	31
158204	20" Slimline Blue with Pressure Relief	1/2"	8	31
158205	20" Slimline Blue w/o Pressure Relief	1/2"	8	31



# SYSTEM ACCESSORIES AND COMPONENTS

- FILTER HOUSINGS AND SYSTEMS
- PENTEK STANDARD / BIG BLUE SERIES

Part #	Housing Description	Pipe Size	Case Qty.	Case Weight (lbs.)
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## Standard Series

All Housing Caps Incorporate Mounting Bracket Holes - Except Valve In Head Units  
Standard Housings Rated at 125 PSI @ 100° F

150067	10" Standard Blue w/ Pressure Relief	3/4"	12	38
150068	10" Standard Blue w/o Pressure Relief	3/4"	12	38
150071	10" Standard Clear w/ Pressure Relief	3/4"	12	38
150072	10" Standard Clear w/o Pressure Relief	3/4"	12	38
150164	10" Standard VIH Blue w/ Pressure Relief	3/4"	12	40
150437	10" Standard VIH Clear w/ Pressure Relief	3/4"	12	40
150015	10" Standard Hot Water Black w/o Pressure Relief	3/4"	12	50
150069	20" Standard Blue w/ Pressure Relief	3/4"	12	38
150070	20" Standard Blue w/o Pressure Relief	3/4"	12	38
150166	20" Standard VIH Blue w/ Pressure Relief	3/4"	8	40
150111	20" Standard Hot Water Black w/o Pressure Relief	3/4"	8	57

## Big Blue Series

Big Blue 10" Housings Rated at 100 PSI @ 100° F  
Big Blue 20" Housings Rated at 90 PSI @ 100° F

150469	10" Big Blue w/ Pressure Relief	3/4"	6	30
150467	20" Big Blue w/ Pressure Relief	3/4"	4	30
150237	10" Big Blue w/ Pressure Relief	1"	6	33
150238	10" Big Blue w/o Pressure Relief	1"	6	33
150233	20" Big Blue w/ Pressure Relief	1"	4	28
150234	20" Big Blue w/o Pressure Relief	1"	4	28
150239	10" Big Blue w/ Pressure Relief	1 1/2"	6	34
150240	10" Big Blue w/o Pressure Relief	1 1/2"	6	34
150235	20" Big Blue w/ Pressure Relief	1 1/2"	4	30
150236	20" Big Blue w/o Pressure Relief	1 1/2"	4	30

## Big Clear

166219	10" Big Clear w/ Pressure Relief	1"	6	34
166201	20" Big Clear w/ Pressure Relief	1"	4	28



Big Blue Housings



High Temperature Housings



Standard Housings



Valve-In-Head Housings

## SYSTEM ACCESSORIES AND COMPONENTS

- FILTER HOUSINGS AND SYSTEMS
- PENTEK HIGH PURITY / BAG / BASIC FILTER SYSTEMS

Part #	Housing Description	Pipe Size	Case Qty.	Case Weight (lbs.)
High Purity Housings*				
Max Temperature 100°F / Max Pressure 100 PSF				
150150	10" Natural Standard Seal w/o Plugs	3/4"	1	3
150132	10" Natural #222 Seal w/o Plugs	3/4"	1	3
150158	20" Natural #222 Seal w/o Plugs	3/4"	1	5
150141	20" Natural #222 Seal w/ Plugs	3/4"	1	5
Bag Filter Assemblies				
Max Temperature 100°F / Max Pressure 10" - 100 PSI / 20" - 90 PSI				
All Bag Filter Assembly Include: Pressure Gauge, Wrench & 3/8" PVC Drain Valve				
150360	10" Big Blue PBH-410-1	1"	1	6
150338	20" Big Blue PBH-420-1	1"	1	9
150367	10" Big Blue PBH-410-1.5	1 1/2"	1	7
150337	20" Big Blue PBH-420-1.5	1 1/2"	1	9
150370	PHB & Big Blue Housing Stand	N/A	1	2
Basic Filter Systems				
Max Temperature 100°F / Max Pressure Slimline 125 PSI / Big Blue 90 PSI				
All Basic Filter Systems are Fully Assembled within the Shipping Carton				
160196	20" Slimline BFS-201 /Two Housings w/ Bracket	3/8"	1	6
160166	20" Big Blue BBFS-22 /Two Housings w/ Bracket	1"	1	30
160168	20" Big Blue BBFS-222 /Three Housings w/ Bracket	1 1/2"	1	36

\* NOTE: All #10, #12, #20 housings are provided with one sump drain plug except those labeled w/o plugs.



All Natural Housings



Bag Vessel Housings



Basic Filter Housings



Basic Filter Housings

## SYSTEM ACCESSORIES AND COMPONENTS

- FILTER HOUSINGS AND SYSTEMS
- PENTEK ST SERIES / ST-BC SERIES

### ST Stainless Steel Filter Housings



ST Series Stainless Steel Housings

#### Materials of Construction:

- Brushed 304 Stainless Steel Housing
- Brass / Nickel Plated Head
- 300° F (149° C) (Max. Temp.)
- 3/4" FPT Pipe Size

#### Features:

- Heavy duty units for smaller filtration systems and point-of-use applications
- Brushed 304 Stainless Steel Sump With a Cast Brass / Nickel Plated Head
- Ideal for Extreme High Pressure / Hot Water Applications
- Accepts Complete Range of Standard Double Open End Cartridges

Part #	Model	Pipe Size	Dimensions	Flow Rates	Maximum Pressure
15601702	ST-1	3/4"	4 -1/8" x 12-7/8"	10 gpm	250 psi
15601802	ST-2	3/4"	4 -1/8" x 22-3/4"	15 gpm	250 psi
15601902	ST-3	3/4"	4 -1/8" x 32-3/8"	20 gpm	250 psi

NOTE: Maximum cartridge diameter 3" (76 mm) Will not accept model CC-10 granular activated carbon cartridge

### ST-BC Stainless Steel Filter Housings

#### Materials of Construction:

- Brushed 304 Stainless Steel Housing
- Epoxy Finish
- 300° F (149° C) (Max. Temp.)
- Maximum Pressure 125 psi (8.62 bar)

#### Features:

- Heavy duty units for large scale commercial / industrial applications
- Brushed 304 Stainless Steel Construction with a Gray-Silver Epoxy Finish
- Ideal for Extreme High Temperature Applications
- Accepts Complete Range of Standard Double Open End (DOE) Cartridges

Part #	Model	Pipe Size	Dimensions	Flow Rates*	No. of Cartridges **	Length
15602502	ST-BC-4	2"	10" x 19 1/4"	28 gpm	4 x 1	9 3/4" or 10"
15602602	ST-BC-8	2"	10" x 29"	56 gpm	4 x 2	9 3/4" or 10"
15602702	ST-BC-12	2"	10" x 39 3/4"	84 gpm	4 x 3	9 3/4" or 10"
15602802	ST-BC-16	2"	10" x 49 3/4"	110 gpm	4 x 4	9 3/4" or 10"
15603202	ST-BC-20	2"	10" x 49 3/4"	125 gpm	5 x 4	9 3/4" or 10"



ST-BC Series Stainless Steel Housings

\* Based on sediment removal with a 25-micron filter cartridge and 1 PSIG initial clean pressure drop

\*\* Number of cartridges refers to the number of 9 3/4" or 10 cartridges which are configured around the housing (x) the number of cartridges that may be stacked. Example: 4 x 2 means that 9-3/4" cartridges are configured four around and two high.

NOTE: Maximum cartridge diameter 3" (76mm)

# SYSTEM ACCESSORIES AND COMPONENTS

- FILTER HOUSINGS
- PENTEK PARTS AND ACCESSORIES

## Part# MOUNTING BRACKETS

150578	MC-1 Kit 3/4" for Mounting Bracket cap
151011	Wall Bracket Kit for 3/4" U-Shaped
244047	Bracket Kit for Slimline
24462702	Bracket for 2 Slim Housings (1/4", 3/8", or 1/2")
14416902	Bracket for 3 Slim Housings (1/4", 3/8", or 1/2")
150061	Wall Bracket Kit BB Stainless Steel (for use on 20")
144258	Bracket for Double BB Housing
144259	Bracket for Triple BB Housing
144128	Wall Bracket for ST-1, ST-2, ST-3 SS Housings



150061



244047



S7580



151011

## REPLACEMENT SUMPS

153017	#10 Slimline Blue Sump
153058	#20 Slimline Blue Sump
153128	#10 Standard Clear Sump
153029	#10 Big Blue Blue Sump
15307006	#20 Big Blue Blue Sump
153208	#10 Big Clear Sump

- Mounting Brackets
- Parts
- Replacement Sumps
- Spanner Wrenches

## PARTS

151120	O-Ring #241 Buna-N FDA Grade for #10, #12, #20 Standard Housing
151118	O-Ring #241 Silicone FDA Grade for #10, #12, #20 Standard Housing
151117	O-Ring #241 Viton for #10, #12, #20 Standard Housing
151121	O-Ring #237 Buna-N FDA Grade for #5, #10 Slimline Housing
151122	O-Ring #357 Buna-N FDA Grade for Big Blue and Bag Filter Housing
143216	Gasket Seal for ST-1, ST-2, ST-3 Stainless Steel Housing
151039	Pressure Relief Button Kit (All Housings Except VIH)
155003	Cartridge Coupler for 20" Standard
144229	Cartridge Coupler for 20" Big Blue

Cartridge Coupler



## SPANNER WRENCHES

150539	SW-1A for Slimline Housings (formerly 150294)
150295	SW-2 For Standard Housings
150296	SW-3 For Slimline Housings
144368	SW-4 For Big Blue 10" Housings
144880	BW/BC For Big Clear Housings



Spanner Wrenches

## HOUSING PRESSURE / FLOW INFORMATION\*

Net Pressure Drop (PSI) @ Flow Rate (GPM)

	1	3	5	8	10	15	20	25	30	35	40	50	60	70
	GPM	GPM	GPM	GPM	GPM	GPM	GPM	GPM	GPM	GPM	GPM	GPM	GPM	GPM
Slimline 1/4"	< 1	2	4	10	15									
Inlet / Outlet														
Slimline 3/8"	< 1	< 1	2	5	7									
Inlet / Outlet														
Slimline 1/2"	< 1	< 1	2	5	7									
Inlet / Outlet														
Standard 1/2"	< 1	< 1	< 1	< 1	1	2	3							
Inlet / Outlet														
VIH 3/4"	< 1	< 1	2	4	7	16								
Inlet / Outlet														
Big Blue HFPP	< 1	< 1	< 1	< 1	1	1	2	3	4	5	7	11	16	
1" Inlet / Outlet														
Big Blue HFPP	< 1	< 1	< 1	< 1	< 1	1	1	2	2	3	4	7	10	13
1-1/2" Inlet / Outlet														

\* All Tests Were Performed On Empty Housings (No Cartridges).

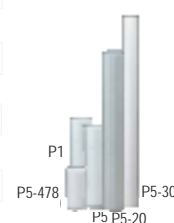
NOTE: The pressure drop values listed for flow rates higher than 10 gpm were extrapolated from curves, except in the case of Big Blue Housings.

## SYSTEM ACCESSORIES AND COMPONENTS

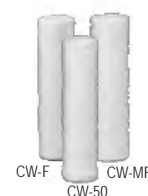
- FILTER CARTRIDGES
- PENTEK SEDIMENT REMOVAL
- STANDARD DIAMETER, SPUN, PLEATED, POLY DEPTH, STRING WOUND

### Standard Sediment Cartridges (approx. 2-1/2"-Diameter)

Part #	Description	Microns (Nominal)	Case Qty.	Case Weight (lbs.)
Length - 4 7/8"				
15503043	P5-478 Spun Polypropylene	5	24	5
15503143	R30-478 Pleated Polyester	30	24	6
Length - 9-3/4"				
15500143	S1 Pleated Cellulose	20	24	9
15501743	R30 Pleated Polyester - Reusable	30	24	9
15503843	R50 Pleated Polyester - Reusable	50	24	9
25548143	ECP1-10 Pleated Cellulose - Polyester	1	24	9
25548243	ECP5-10 Pleated Cellulose - Polyester	5	24	9
25548343	ECP20-10 Pleated Cellulose - Polyester	20	24	9
15574843	PD-1-934 Polydepth	1	24	11
15574943	PD-5-934 Polydepth	5	24	12
15575043	PD-10-934 Polydepth	10	24	12
15575143	PD-25-934 Polydepth	25	24	12
15575243	PD-50-934 Polydepth	50	24	12
15522543	P1 Spun Polypropylene	1	24	10
15501443	P5 Spun Polypropylene	5	24	9
15501543	P25 Spun Polypropylene	25	24	9
Length - 9-7/8"				
15507143	WP5 Polypropylene String - Wound	5	24	10
15507243	WP30 Polypropylene String - Wound	30	24	10
15518643	CW-F Polypropylene String - Wound	10	24	11
15518743	CW-MF Polypropylene String - Wound	30	24	11
15521443	CW-50 Polypropylene String - Wound	50	24	8
Length - 20"				
15530343	S1-20 Pleated Cellulose	20	14	14
15530443	P1-20 Spun Polypropylene	1	20	16
15501643	P5-20 Spun Polypropylene	5	20	16
15522643	P25-20 Spun Polypropylene	25	20	16
25548643	ECP5-20 Pleated Cellulose - Polyester	5	14	14
15541643	R30-20 Pleated Polyester - Reusable	30	14	14
15575543	PD-1-20 Polydepth	1	20	19
15575643	PD-5-20 Polydepth	5	20	19
15575743	PD-10-20 Polydepth	10	20	21
15575843	PD-25-20 Polydepth	25	20	21
15575943	PD-50-20 Polydepth	50	20	21
Length - 30"				
15522743	P1-30 Spun Polypropylene	1	20	25
15522843	P5-30 Spun Polypropylene	5	20	25
15576243	PD-1-30 Polydepth	1	20	30
15576343	PD-5-30 Polydepth	5	20	30
15576543	PD-25-30 Polydepth	25	20	30
Length - 40"				
15576943	PD-1-40 Polydepth	1	20	38
15577043	PD-5-40 Polydepth	5	20	35
15577243	PD-24-40 Polydepth	25	20	41



POLYDEPTH  
Polypropylene  
Sediment Cartridge





## SYSTEM ACCESSORIES AND COMPONENTS

- FILTER CARTRIDGES
- PENTEK SEDIMENT REMOVAL
- BIG BLUE / BAG FILTERS

### Big Blue Cartridges (approx. 4 1/2" - Diameter)



Part #	Description	Microns (Nominal)	Case Qty.	Case Weight (lbs.)
Length - 10"				
15540543	S1-BB Pleated Cellulose	20	8	8
25549043	ECP5-BB Pleated Cellulose - Polyester	5	8	8
15510143	R30-BB Pleated Polyester- Reusable	30	8	9
15505343	R50-BB Pleated Polyester - Reusable	50	8	8
15535943	DGD-2501 Dual-Gradient Polypropylene	25/1	8	10
15535743	DGD-5005 Dual-Gradient Polypropylene	50/5	8	10
15535543	DGD-7525 Dual-Gradient Polypropylene	75/25	8	10
WP5BB97P	Polypropylene String-Wound	0.5	12	13
WP1BB97P	Polypropylene String-Wound	1	12	12
WP5BB97P	Polypropylene String-Wound	5	12	12
WP10BB97P	Polypropylene String-Wound	10	12	12
WP25BB97P	Polypropylene String-Wound	25	12	12
WPX5BB97P	Fibrillated Polypropylene String-Wound	5	8	16
WPX10BB97P	Fibrillated Polypropylene String-Wound	10	8	13
WPX25BB97P	Fibrillated Polypropylene String-Wound	25	8	12
WPX50BB97P	Fibrillated Polypropylene String-Wound	50	8	11
WPX100BB97P	Fibrillated Polypropylene String-Wound	100	8	10
Length - 20 "				
15530543	S1-20BB Pleated Cellulose	20	6	10
25549443	ECP5-20BB Pleated Cellulose-Polyester	5	6	10
15543043	R30-20BB Pleated Polyester- Reusable	30	6	10
15536043	DGD-2501-20 Dual -Gradient Polypropylene	25/1	6	23
15535843	DGD-5005-20 Dual-Gradient Polypropylene	50/5	6	23
15535643	DGD-7525-20 Dual-Gradient Polypropylene	75/25	6	23
WP1BB20P	Polypropylene String-Wound	1	6	29
WP5BB20P	Polypropylene String-Wound	5	6	29
WP25BB20P	Polypropylene String-Wound	25	6	29
WPX100BB20P	Fibrillated Polypropylene String-Wound	100	6	29



### Filter Bags

15538303	BP-410-1 (10")	1	20	4
15538403	BP-420-1 (20")	1	20	6
15538503	BP-410-5 (10")	5	20	4
15538603	BP-420-5 (20")	5	20	6
15538703	BP-410-10 (10")	10	20	4
15538803	BP-420-10 (20")	10	20	6
15538903	BP-410-25 (10")	25	20	4
15539003	BP-420-25 (20")	25	20	6
15539103	BP-410-50 (10")	50	20	4
15539203	BP-420-50 (20")	50	20	6
15539303	BP-410-100 (10")	100	20	4
15539403	BP-420-100 (20")	100	20	6
15539503	BP-410-200 (10")	200	20	4
15539603	BP-420-200 (20")	200	20	6

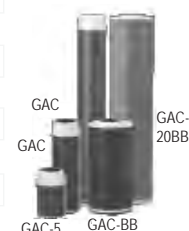
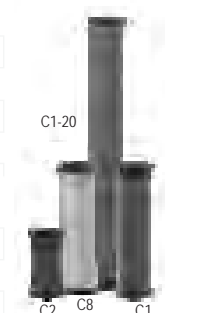


# SYSTEM ACCESSORIES AND COMPONENTS

- FILTER CARTRIDGES
- PENTEK TASTE AND ODOR REMOVAL
- STANDARD DIAMETER / BIG BLUE

## Standard Taste & Odor Cartridges (approx. 2 1/2" Diameter)

Part #	Description	Microns (Nominal)	Case Qty.	Case Weight (lbs.)
Length - 4 7/8"				
15502243	C2 Activated Carbon-Impregnated Cellulose	5	24	7
15511043	GAC-5 Activated Carbon		24	12
15516943	CBC-5 Carbon Block	0.5	24	13
Length - 9-3/4"				
15500243	C1 Activated Carbon Impregnated Cellulose	5	24	11
15536743	NCP-10 Pleated Carbon Impregnated Polyester	10	24	11
15522043	C8 Powdered Activated Carbon Impreg. Cellulose	1	24	14
15510943	GAC-10 Granular Activated Carbon		12	12
15513143	TSGAC-10 Combination Carbon / Phosphate		12	12
15515543	CC-10 Granular Activated Carbon		12	12
15563443	EPM-10 Carbon Block	10	12	14
15571443	EPM-10C Carbon Block	10	12	14
15553143	EP-10 Carbon Block	5	12	14
15516243	CBC-10 Carbon Block	0.5	12	14
Length - 20"				
15559743	C1 Activated Carbon Impregnated Cellulose	5	14	12
15539743	NCP-20 Pleated Carbon Impregnated Polyester	10	14	11
15511143	GAC-20 Granular Activated Carbon		6	17
15506543	RFC-20 Radial-Flow Granular Activated Carbon	7	6	11
15563543	EPM-20 Carbon Block	10	6	17
15552943	EP-20 Carbon Block	5	6	17
15530943	CBC-20 Carbon Block	0.5	6	15
Length - 30"				
15569843	EP-30 Carbon Block	5	12	46
Length - 40"				
15581503	EP5-40 Carbon Block	5	6	33



## Big Blue Taste & Odor Cartridges (approx. 4 1/2"- Diameter)

Length - 10"				
15539843	NCP-BB Pleated Carbon Impregnated Polyester	10	8	13
15515343	GAC-BB Granular Activated Carbon		8	19
15514143	RFC-BB Radial-Flow Carbon	25	8	19
15578243	EPM-BB Carbon Block	10	4	13
15554843	EP-BB Carbon Briquette	5	4	13
15517043	CBC-BB Carbon Briquette	0.5	4	13
Length - 20"				
15538243	NCP-20BB Pleated Carbon Impregnated Polyester	10	6	22
15524943	GAC20-BB Granular Activated Carbon		4	28
15524743	RFC20-BB Radial-Flow Granular Activated Carbon	25	6	27
15578343	EPM-20BB Carbon Block	10	4	42
15558343	EP-20BB Carbon Block	5	4	42
15531243	CBC20-BB Carbon Block	0.5	4	42

## SYSTEM ACCESSORIES AND COMPONENTS

PENTEK

- FILTER CARTRIDGES
- PENTEK SPECIALTY AND SELECTIVE



OAC-20BB

Part #	Description	Microns (Nominal)	Case Qty.	Case Weight (lbs.)
Iron Reduction Cartridge				
15526303	RFFE20-BB Radial Flow Iron Reduction		4	58
Oil Adsorbing Cartridge (20"BB)				
15559603	DAC-20BB Oil Adsorbing Cartridge (20"BB)		6	20
Phosphate Crystal Cartridges				
15510043	PCC-1 Phosphate Crystal Cartridge (24oz)		6	11
15524843	PCC212 Phosphate Crystal Cartridge (12oz)		6	7
15525143	PCC218 Phosphate Crystal Cartridge (18oz)		6	9



### Water Softening Cartridges

15531943	WS-10 Softening Resin Cartridge (10")		6	10
15532043	WS-20 Softening Resin Cartridge (20")		6	21
15532143	WS-20BB Softening Resin Cartridge (20" BB)		4	50

### Empty Cartridges and In-Line Cartridges-Unassembled \*

155165	GAC-20 Shell		25	20
155237	PCC2-20 Shell		30	15
155154	GAC-BB Shell		8	6
155255	GAC20-BB Shell		10	11

### In-Line and Specialty Filter Assemblies

15565606	IC-101L Bulk - No Fittings w/ 4 Color Label		48	40
15508306	TS-101L Bulk- No Fittings w/ 4 Color Label		48	40

### Quick Change Filters

158667	QC10-CBR Block w/ Lead Reduction	0.5	6	10
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### Quick Change Filter Cartridge Replacements

15578543	QC-CBR-RP Replacement Cartridge	0.5	12	13
15596243	QC10-EP-RP Replacement Cartridge	5	12	13
15590143	QC10-GAC-RP Replacement Cartridge		12	13

### Quick Change Replacement Head

144842	QCH Replacement Head		1	
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### 1/4" In-Line Cartridges

25549943	GS-6-B-1/4" FPT 2"x6" (Taste and Odor)	20	25	10
25550343	GS-10-B-1/4" FPT 2"x10" (Taste and Odor)	20	25	18
25554143	GS-10CAL/RO-B-1/4" FPT 2"x10" (Carbon & Calcite)	5	25	18
25552143	GS-10RO-B-1/4" FPT 2"x10" (Taste and Odor)	5	25	18
25557543	GS-10SED/5-B-1/4" FPT 2"x10" (Sediment 5 Micron)	5	25	13
25558943	GS-6ALS-B-1/4" FPT 2"x6" (Lime, Odor, Scale & Taste)	1	25	19
25552543	GS-10RO-G-1/4" John Guest 2"x10" (Coconut Carbon)	25	25	10



RFFE20-BB

### Ceramic Cartridges

15515943	CRE-1 Ceramic Element	1	6	6
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### Deionization Cartridges

15527343	PCF1-10MB FDA D.I. Resin (10")		6	10
15527443	PCF1-20MB FDA D.I. Resin (20")		6	21
15528143	BBFF1-20MB FDA D.I. Resin (20" BB)		4	50

\* Minimum Order 144 Pieces - Any Style



PCC106 PCC1 PCC218

BBF1-20MB



PCF1-20MB

## SYSTEM ACCESSORIES AND COMPONENTS

- FILTER HOUSINGS AND ACCESSORIES
- LAKOS SAND SEPARATORS
- SANDMASTER SERIES / SANDMASTER PLUS SERIES / IN-LINE SERIES



SANDMASTER

Part#	Description	Flow Rate (gpm)	Pipe Size (MNPT)	Shipping Weight
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### Residential / SANDMASTER H<sub>2</sub>O Series, Carbon Steel

H205	Sandmaster	5-10	1/2"	7
H2010	Sandmaster	10-20	3/4"	8
H2020	Sandmaster	20-32	1"	13
H2030	Sandmaster	30-48	1-1/4"	13
H2045	Sandmaster	45-70	1-1/2"	13

### Residential / SANDMASTER Plus Series, 304 Stainless Steel

SMP05	Sandmaster	5-10	1/2"	9
SMP10	Sandmaster	10-20	3/4"	9
SMP20	Sandmaster	20-32	1"	18
SMP30	Sandmaster	30-48	1-1/4"	18
SMP45	Sandmaster	45-75	1-1/2"	18

### Commercial / IN-LINE Series, Carbon Steel

IL0037B	In Line Separator	3-6	3/8"	9
IL0050B	In Line Separator	4-10	1/2"	14
IL0075B	In Line Separator	10-20	3/4"	15
IL0100B	In Line Separator	19-32	1"	27
IL0125B	In Line Separator	28-48	1-1/4"	27
IL0150B	In Line Separator	45-70	1-1/2"	27
IL0200B	In Line Separator	65-108	2"	55
IL0250B	In Line Separator	95-155	2-1/2"	60
IL0300B	In Line Separator	148-290	3"	101



IN-LINE

### Purge Kits

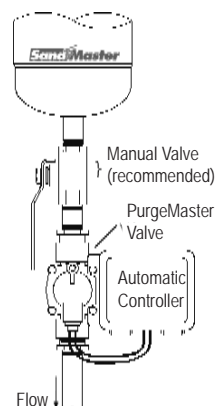
VP07HKV	Visual Purge Kit	3/4"
EP75RSV	3/4 AutoPurge Valve*	3/4"
DP75SMV	Once/Day #DP75-MBV 115V NEMA4	3/4"

### Brackets

MBCK022	Mounting Bracket ILB0050 and ILB0075
MBCK033	Mounting Bracket Clamp Kit

### IN-LINE Series

MBCK052	Mounting Bracket for ILB0200 and ILB0250
MBCK062	Mounting Bracket for ILB0300
MBK0510	Mounting Bracket Kit H2005, H2010, SMP05, SMP10
MBK2045	Mounting Bracket Kit H2020, H2030, H2045, SMP20, SMP30, SMP45



PURGE KIT

NOTE: All Sand Separators are supplied with a 3/4" MNPT Purge Connection.

\* Auto Purge Features a Long Life (2-5 years) Lithium Battery

## SYSTEM ACCESSORIES AND COMPONENTS

- FILTER HOUSINGS
- HARMSCO PARTS AND ACCESSORIES

### Specifications Harmsco INDUSTRIAL SERIES 304SS

Model#	HIF7	HIF14	HIF16	HIF21	HIF24	HIF42	HIF75	HIF100	HIF150	HIF200
Max Flow Rate <sup>1</sup> GPM	30	60	75	90	100	175	300	400	600	800
Max Operating PSI	150	150	150	150	150	150	150	150	150	150
Re-usable Cartridges	7	14	16	21	24	42	75	100	150	200
Filtering Surface Sq. Ft.	42	84	96	126	144	252	450	600	900	1200
Pipe Size	1.5"	1.5"	2"	1.5"	2"	2"	3"	3"	FL4"	FL4"
Filter Height	19.5"	28"	28"	37"	37"	40"	42"	52"	48"	58"
Base Diameter	13"	13"	13"	13"	13"	18"	20"	20"	28"	28"
Plumbing Clearance	3.5"	3.5"	3.5"	3.5"	3.5"	5"	6.25" <sup>2</sup>	6.25" <sup>2</sup>	7.5" <sup>2</sup>	7.5" <sup>2</sup>
Servicing Clearance	35"	48"	48"	68"	68"	68"	70"	87"	76"	93"
Floor Space	13" x 13"			18" x 18"			20" x 20"		28" x 28"	

<sup>1</sup> Maximum flow rate is determined by micron rating used, fluid viscosity, and volume of contamination.

<sup>2</sup> 3-inch leg extensions available.

Maximum operating temperature: 140°F.

### INDUSTRIAL Housings - 304 Stainless Steel Housings w/ Wing Nuts (cartridges not included)

Part #	Product Code	Flow Rate	Unit / ctn. /lbs.
S2901	HIF-7	30 gpm	1/29
S2902	HIF-14	50 gpm	1/39
S2902A	HIF-16	60 gpm	1/43
S2903A	HIF-24	85 gpm	1/65
S2905	HIF-42	150 gpm	1/100
S2907	HIF-75	270 gpm	1/167
S2908	HIF-100	360 gpm	1/188
S2909	HIF-150	540 gpm	1/274
S2910	HIF-200	800 gpm	1/321



### Specifications Harmsco HURRICANE SERIES 304SS

Model#	HUR-40-HP	HUR-90-HP	HUR-170-HP
Max Flow Rate <sup>1</sup> GPM	50	100	200
Max Operating PSI	150	150	150
Re-usable Cartridges	1	1	1
Filtering Surface Sq. Ft.	40	90	170
Pipe Size	2"	2"	2"
Filter Height	21"	31"	41"
Base Diameter	13"	13"	13"
Servicing Clearance	31"	51"	72"
Floor Space	15" x 15"	15" x 15"	15" x 15"

### HURRICANE Housings 304 Stainless Steel Housings w/ Wing Nuts (cartridges not included)

S20HUR40HP	HUR-40-HP	50 gpm	1/40
S20HUR90HP	HUR-90-HP	100 gpm	1/51
S20HUR170HP	HUR-170-HP	150 gpm	1/65



## SYSTEM ACCESSORIES AND COMPONENTS

- FILTER HOUSINGS AND ACCESSORIES
- HARMSCO BAND CLAMP SERIES

Model#	BC4-1	BC4-2	BC4-3	BC6-1	BC6-2	BC6-3
Max Flow Rate <sup>1</sup> GPM	25	50	75	42	84	126
Max Operating PSI	150	150	150	150	150	150
Re-usable Cartridges	4	4	4	6	6	6
Filtering Surface Sq. Ft.	24	48	72	36	72	108
Pipe Size (FNPT)	2"	2"	2"	2"	2"	2"
Filter Height	19-1/2"	29-1/4"	39"	25-1/2"	35-1/4"	45"
Base Diameter	9-1/2"	9-1/2"	9-1/2"	11-1/2"	11-1/2"	11-1/2"
Servicing Clearance	28"	47"	67"	28"	47"	67"
Floor Space	13" x 13"			18" x 18"		

<sup>1</sup>. Maximum flow rate is determined by micron rating used, fluid viscosity, and volume of contamination.



### BAND CLAMP Housings - 316 Stainless Steel Housings w/ Wing Nuts

Part #	Product Code	Flow Rate	Unit / ctn /lbs.
S20BC41	BC4-1	25 gpm	1/27
S20BC42	BC4-2	50 gpm	1/32
S20BC43	BC4-3	75 gpm	1/38
S20BC61	BC6-1	42 gpm	1/45
S20BC62	BC6-2	84 gpm	1/53
S20BC63	BC6-3	126 gpm	1/62

Part #	Product Code	Description
S21202	202-B	1/2" Wing NutBrass - Ind & Hur Housings
S21550	550-E	EPDM Rim Gasket HIF- 7 Thru HIF 24
S21635	635-E	16" Top Rubber-Seal HIF-42
S21671	671-E	18" Top Rubber Seal HIF-75, HIF-100
S21653	653-E	24" Top Rubber Seal HIF-150 Thru HIF-200



## SYSTEM ACCESSORIES AND COMPONENTS

- **FILTER CARTRIDGES**
- **HARMSCO 801 SERIES**
- **PLEATED CARTRIDGES, INDIVIDUALLY WRAPPED, COLOR-COATED ENDS**

**HARMSCO**

Part #	Product Code	Microns	Color	Cartridge Length	Unit ctn/ lbs.
S2100C	801-0.35	0.35 Mic.	Brown	9 - 3/4"	24 /11
S2101C	801-1	1 Mic.	Tan	9 - 3/4"	24 /11
S2102C	801-5	5 Mic.	White	9 - 3/4"	24 /11
S2102AC	801-10	10 Mic.	Red	9 - 3/4"	24 /11
S2103C	801-20	20 Mic.	Blue	9 - 3/4"	24 /11
S2104C	801-50	50 Mic.	Yellow	9 - 3/4"	24 /11
S2105C	801-100	100 Mic.	Green	9 - 3/4"	24 /11
S2101E	WB-50W	50 Mic.	Yellow	9 - 3/4"	24 /10
S2102E	WB-5-W	5 Mic.	White	9 - 3/4"	24 /10
S2103E	WB-20-W	20 Mic.	Blue	9 - 3/4"	24 /10
S2117	HB10-0.35W	.35 Mic.	N/A	9 - 3/4"	8 /8
S2118	HB10-1-W	1 Mic.	Blue	9 - 3/4"	8 /8
S2119	HB10-5-W	5 Mic.	Blue	9 - 3/4"	8 /8
S2120	HB-20-5-W	5 Mic.	Blue	20"	4 /7
S212020	HB-20-20-W	20 Mic.	Blue	20"	4 /7
S20PPS1	PP-S-1	1Micron ABS Standard		9 - 3/4"	24
S20PPD1	PP-D-1	1Micron ABS Standard		19 - 1/2"	24
S20PPT1	PP-T-1	1Micron ABS Standard		29-1/4"	24
S20PPBB101	PP-BB-10-1	1Micron ABS Big Blue		9 - 3/4"	8/8
S20PPBB201	PP-BB-20-1	1Micron ABS Big Blue		20"	4/7
S20PPHC401	PP-HC-40-1	1Micron ABS Hurricane		9 - 5/8"	1/10
S20PPHC901	PP-HC-90-1	1Micron ABS Hurricane		19 - 1/2"	1/10
S20PPHC170	PP-HC-170-1	1Micron ABS Hurricane		30 - 3/4"	1/10

\*VALIDATED for cryptosporidium and Gardia Cyst removal by Independent Lab.



## SYSTEM ACCESSORIES AND COMPONENTS

- FILTER CARTRIDGES
- ALL POLY / HURRICANE

Part #	Product Code	Cartridge Length	Unit ctn/ lbs.
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All Poly (polypropylene for high purity, white end)

0.2 Micron Nominal w/ DOE End Caps

S9403	PP-10-0.2-DOE	9 - 3/4"	12/4
S9404	PP-20-0.2-DOE	19 - 1/2"	12/7
S9405	PP-30-0.2-DOE	29 - 1/4"	12/9

0.2 Micron Absolute w/ DOE End Caps

S9400	PP-A-10-0.2-DOE	9 - 3/4"	12/4
S9401	PP-A-20-0.2-DOE	19 - 1/2"	12/7
S9402	PP-A-30-0.2-DOE	29 - 1/4"	12/9

0.2 Micron Absolute w/ 222 End Caps

S9406	PP-A-10-0.2-222	9 - 3/4"	12/4
S9407	PP-A-20-0.2-222	19 - 1/2"	12/7
S9408	PP-A-30-0.2-222	29 - 1/4"	12/9

Hurricane Cartridges (Pleated Polyester)

Temperature rated to 200°F (93°C) Cartridge OD: 7-3/4"

Part #	Product Code	Microns	Cartridge Length	Unit ctn/ lbs.
S20HC40035	HC40-0.35	0.35	9 - 5/8"	1/4
S20HC401	HC40-1	1	9 - 5/8"	1/4
S20HC405	HC40-5	5	9 - 5/8"	1/4
S20HC4010	HC40-10	10	9 - 5/8"	1/4
S20HC4020	HC40-20	20	9 - 5/8"	1/4
S20HC4050	HC40-50	50	9 - 5/8"	1/4
S20HC901	HC90-1	1	19 - 1/2"	1/7
S20HC905	HC90-5	5	19 - 1/2"	1/7
S20HC910	HC90-10	10	19 - 1/2"	1/7
S20HC9020	HC90-20	20	19 - 1/2"	1/7
S20HC9050	HC90-50	50	19 - 1/2"	1/7
S20HC170035	HC170-0.35	0.35	30 - 3/4"	1/10
S20HC1701	HC170-1	1	30 - 3/4"	1/10
S20HC1705	HC170-5	5	30 - 3/4"	1/10
S20HC17020	HC170-20	20	30 - 3/4"	1/10
S20HC17050	HC170-50	50	30 - 3/4"	1/10



- RESIDENTIAL
- PUROTECH

## PUROTECH 4 STAGE TF R/O SYSTEM

- Thin film composite membrane
- 5 micron sediment filter
- Carbon cartridge
- Inline post carbon
- Quick connect fittings
- Long reach non-air gap faucet
- 3.2 gallon white storage tank
- All necessary components for quick and easy installation
- 100% tested and made in the U.S.A.
- One year limited warranty



**Part number: 201541 (PuroTech 4 Stage 50 GPD TF Reverse Osmosis System)**

## PUROTECH 4 STAGE TF R/O SYSTEM WITH PERMEATE PUMP

- Thin film composite membrane
- 5 micron sediment filter
- Carbon cartridge
- Inline post carbon
- Aquatec Permeate pump
- Quick connect fittings
- Long reach non-air gap faucet
- 3.2 gallon white storage tank
- All necessary components for quick and easy installation
- 100% tested and made in the U.S.A.
- One year limited warranty
- Tech note: The permeate pump uses the concentrate waste water by pulling a vacuum on the permeate water, thus preventing "TDS creep" as the tank is filling. It also keeps the system at a constant recovery ratio.



**Part number: 200014 (PuroTech 4 Stage 50 GPD TF with Permeate Pump Reverse Osmosis System)**

- RESIDENTIAL
- PUROTECH

### PUROTECH 5 STAGE TF R/O SYSTEM

- Thin film composite membrane
- 5 micron sediment filter
- Carbon block
- GAC Cartridge
- Inline post carbon
- Quick connect fittings
- Long reach non-air gap faucet
- 3.2 gallon white storage tank
- All necessary components for quick and easy installation
- 100% tested and made in the U.S.A.
- One year limited warranty



**Part number: 200007 (PuroTech 5 Stage 50 GPD TF Reverse Osmosis System)**

### PUROTECH 5 STAGE TF R/O SYSTEM WITH BOOSTER PUMP

- Thin film composite membrane
- 5 micron sediment filter
- Carbon block
- GAC cartridge
- Inline post carbon
- Aquatec Booster pump
- Quick connect fittings
- Long reach non-air gap faucet
- 3.2 gallon white storage tank
- All necessary components for quick and easy installation
- 100% tested and made in the U.S.A.
- One year limited warranty
- Tech note: The booster pump boosts the operating pressure to an average of 60 psi and allows for improved performance of the system when there is low feed water pressure, low production, or high feed water TDS.



**Part number: 200020 (PuroTech 5 Stage 50 GPD TF with 8800 110 volt 60 Hz Booster Pump Reverse Osmosis System)**

## REVERSE OSMOSIS SYSTEMS

R/O

- **BOOSTER PUMPS**
- **AQUATEC 6800/8800**

**6800 Series Aquatec Booster Pumps** are intended for use with reverse osmosis membranes rated up to 50 GPD.

**8800 Series Aquatec Booster Pumps** are intended for membranes rated up to 120 GPD.

Close tolerances within the pump head and motor give a lower amp draw, lower operating temperatures, smoother running, longer life, lower maintenance, and greater efficiencies.

This pump incorporates a powder-coated die cast alloy and a unique label sealing process to reduce exposure to moisture, which is the major cause of motor failure.

### Features

- Toughest, most durable pump on the market
- Adjustable maximum output PSI (regardless of feed pressure)
- Expels trapped air (no more air locks)
- Can be mounted with pump head up or down
- More flow at extremely low inlet pressures
- New motor venting system to remove moisture
- EMI/RFI electronic noise suppression
- 100% final performance tested

**Transformers:** Designed to provide the necessary power to Aquatec pumps. Nominal primary voltages and frequencies, along with system feed, back pressures, and accessories will influence the transformer selection.

**Tank Pressure Switch:** Turns off the booster pump when the tank is full, and should be mounted in-line, as close to the tank as possible. The normally closed switch is pre-set at the factory for various shut-off pressures. Available with 2 John Guest half cartridges, for 1/4" or 3/8" tubing. Note: The pressure switch can be field modified to operate as an open switch by changing the wire terminal connector from the NC to the NO switch spade contact.

**Auto-Flush Fixed Resistor:** Assists the reverse osmosis membrane to perform with maximum efficiency for longer time periods. Designers recommend that reverse osmosis systems be flushed on a regular basis, reducing the "brine to product" ratio, especially in low "TDS" applications, while maintaining/improving system "TDS" rejection rate and extending membrane sediment and carbon filter life.

The 24VAC normally closed solenoid valve automatically "power-flushes" the membrane at full pump flow or line pressure in un-boosted systems, for 18 seconds upon start-up and every hour thereafter. Turbulent water action scrubs organic and inorganic contaminants from the membrane surface, extending membrane life and efficiency. The "power flush" system occurs while the system is in "water making" mode. The flush cycle is reset automatically when the reverse osmosis system repeats the "water making" mode after the "full tank shut-down" mode. Water that has been idle in the membrane module for extended periods is sent to drain. The **Auto-Flush Fixed Restrictor** requires a transformer or can be powered by the pump transformer. The valve has a built-in self-cleaning flow restrictor allowing controlled flow to drain when the valve is in the de-activated (closed) state.

**24 Volt Solenoid Valve:** A normally closed precision solenoid valve, the **Aquatec 24 Volt Solenoid Valve** positively shuts off the feed-water. It can be activated by a pressure switch to open and close at desired holding tank pressure. The valve can be used by itself or mounted in-line on the inlet feed-water side pump, and is powered by the pump's transformer.

<b>AQUATEC 6800</b>	
PART NO.	DESCRIPTION
<b>200759</b>	AQUATEC BOOSTER PUMP 6800 W/ 1/4" TUBE
<b>200760</b>	AQUATEC 6800 .8 AMP 110 VOLT 60 HZ 24 VAC TRANSFORMER
<b>200762</b>	AQUATEC TANK PRESSURE SWITCH 20-40 PSI 1/4" TUBE
<b>200763</b>	AQUATEC AUTO-FLUSH FIXED RESTRICTOR 600 ML/MIN 1/4" TUBE
<b>200764</b>	AQUATEC 24 VOLT SOLENOID VALVE 1/4" COMPRESSION .062" ORIFICE
<b>200765</b>	AQUATEC DOUBLE WIRING HARNESS
<b>200766</b>	AQUATEC KIT 6800 BOOSTER PUMP, PRESSURE SWITCH, .8 AMP 110 VOLT 60 HZ TRANSFORMER

<b>AQUATEC 8800</b>	
PART NO.	DESCRIPTION
<b>200768</b>	AQUATEC BOOSTER PUMP 8800 W/ 3/8" TUBE
<b>200769</b>	AQUATEC 8800 2 AMP 110 VOLT 60 HZ 24 VAC TRANSFORMER
<b>200771</b>	AQUATEC TANK PRESSURE SWITCH 20-40 PSI 3/8" TUBE
<b>200772</b>	AQUATEC AUTO-FLUSH FIXED RESTRICTOR 800 ML/MIN 3/8" TUBE
<b>200773</b>	AQUATEC HIGH FLOW SOLENOID VALVE 3/8" COMPRESSION .315" ORIFICE
<b>200774</b>	AQUATEC DOUBLE WIRING HARNESS
<b>200775</b>	AQUATEC KIT 8800 BOOSTER PUMP, PRESSURE SWITCH, 2 AMP 110 VOLT 60 HZ TRANSFORMER

## REVERSE OSMOSIS SYSTEMS

- **PERMEATE PUMPS / DELIVERY PUMPS**
- **AQUATEC ERP1000 / 5800 / 7800**

With its revolutionary design, the Aquatec Permeate Pump performs like no other pump. Designed to operate as a non-electrical energy recovery device for typical air captive reverse osmosis systems, the Permeate Pump uses the available energy from the brine water after the flow restrictor to essentially force product water into the storage tank. This process effectively reduces the membrane back pressure to less than 5 psi, and allows the membrane to take full advantage of the available feed pressure, greatly increasing efficiency and dramatically reducing the waste water.

The Permeate Pump's advanced technology is capable of bringing the Product water holding tank up to line pressure and shutting the system down when the tank reaches full capacity. This function results in higher delivery pressure, more available water, superior water quality, and extended filter and membrane life. The Permeate Pump is effective with reverse osmosis membranes rated up to 100 GPD and when combined with the 8800 series booster pump, your system will rival the production capacity of most 200 GPD commercial reverse osmosis systems with a fraction of the noise level and significantly lower cost.

### Features

- For membranes rated from 10 to 100 GPD
- Requires no electricity
- Pump powered by energy from brine normally lost to the drain
- Improves water quality
- Effective for inlet water pressure as low as 30 psi
- Fills product tank up to 5 times faster under normal use
- Saves 400% of waste water vs. conventional systems
- Allows smaller capacity membranes
- Increases membrane life
- Prevents "membrane TDS creep"
- Allows greater product tank pressure (90% of feed pressure)
- Compact size

PART NO.	DESCRIPTION
<b>200757</b>	AQUATEC PERMEATE PUMP WITH CLIP
<b>200758</b>	AQUATEC PERMEATE PUMP CLIP ONLY
<b>200800</b>	AQUATEC 5800 DELIVERY PUMP 1/4"
<b>200801</b>	AQUATEC 7800 DELIVERY PUMP 3/8"

### AQUATEC 5800/7800 SERIES

The 5800/7800 Series Aquatec Delivery Pumps are designed for intermittent duty, though most models can be run continuously for hours at a time. They are commonly used either to pressurize water from an atmospheric tank, to deliver purified water to a specific point of use, or simply to increase pressure when required. These pumps can be controlled by either a pressure switch ("demand" mode) or an external power control device ("delivery" mode). When required, an integrated bypass can be incorporated to help regulate pressure levels.





## REVERSE OSMOSIS SYSTEMS

R/O

- MAINTENANCE KITS
- FLOWMATIC AND ALL STANDARD 50 GPD SYSTEMS



FMRO4LKIT



FMRO4KIT



FMRO5LKIT



FMRO5KIT

R/O maintenance kits from Blake Water Solutions provide a convenient filter cartridge replacement set to keep the system in peak operating condition. System manufacturer recommended cartridge replacement is every six months for:

- Prefilter cartridge
- Carbon block
- GAC carbon canister (5 stage units)
- Post polishing inline carbon filter

Membrane replacement is recommended every two years.

These parameters are typical but may vary dependent on inlet water quality and usage.

### IMPORTANT

Follow System manufacturer's recommended sanitization and flushing procedure whenever replacing filters or RO membrane.

PART NO.	DESCRIPTION
<b>FMRO4LKIT</b>	5 MICRON PREFILTER, CARBON BLOCK FILTER AND POST POLISHING INLINE CARBON FILTER (6 MONTH CYCLE FOR 4 STAGE RO UNITS)
<b>FMRO4KIT</b>	5 MICRON PREFILTER, CARBON BLOCK FILTER, 50 GPD MEMBRANE AND POST POLISHING INLINE CARBON FILTER (2 YEAR CYCLE FOR 4 STAGE RO UNITS)
<b>FMRO5LKIT</b>	5 MICRON PREFILTER, CARBON BLOCK FILTER, GAC FILTER AND POST POLISHING INLINE CARBON FILTER (6 MONTH CYCLE FOR 5 STAGE RO UNITS)
<b>FMRO5KIT</b>	5 MICRON PREFILTER, CARBON BLOCK FILTER, GAC FILTER, 50 GPD MEMBRANE AND POST POLISHING INLINE CARBON FILTER (2 YEAR CYCLE FOR 5 STAGE RO UNITS)

## CONVERSION FACTORS

MULTIPLY	BY	TO OBTAIN
ATMOSPHERE	14.7	PSI
BAR	14.2	PSI
CENTIMETERS	0.3937	INCHES
CUBIC FEET	28.32	LITERS
CUBIC INCHES	16.39	CUBIC CENTIMETERS
CUBIC METERS	35.31	CUBIC FEET
CUBIC METERS	264.2	GALLONS, U.S.
FEET	30.48	CENTIMETERS
FEET	0.0348	METERS
GALLONS, U.S.	3.785	LITERS
GALLONS, IMPERIAL	1.20095	GALLONS, U.S.
INCHES	2.54	CENTIMETERS
INCHES	25.4	MILLIMETERS
KILOGRAMS	2.205	POUNDS
LITERS	0.2642	GALLONS, U.S.
METERS	3.281	FEET
METERS	39.37	INCHES
MILLIMETERS	0.03937	INCHES
OUNCES (FLUID)	0.02957	LITERS
POUNDS	453.5924	GRAMS
PSI	0.07	BAR
SQUARE INCHES	654.2	SQUARE MILLIMETERS
SQUARE METERS	10.76	SQUARE FEET
TONS (METRIC)	2205	POUNDS
YARDS	0.9144	METERS

### Temperature Conversion

$$C \text{ to } F = C + 17.78 \times 1.8 = F$$

$$F \text{ to } C = F - 32 \times 5/9 = C$$

### Other

$$\text{Pounds} \div 2.2 = \text{Kilograms}$$

PPM and Mg/L are equal measurements.

$$\text{PPM (or Mg/L)} \div 17.1 = \text{grains per gallon}$$

$$\text{PPM (or Mg/L)} \times 0.0584 = \text{grains per gallon}$$

$$1 \text{ PPM} = 1,000 \text{ PPB}$$

$$\text{Gallons @ } 62^{\circ}\text{F} = 8.3357 \text{ pounds of water}$$

## RESIN CAPACITY

RESIN VOLUME	RESIN CAPACITY SETTING AT			
<i>CUBIC FEET</i>	<i>6 POUNDS FT 3</i>	<i>8 POUNDS FT 3</i>	<i>10 POUNDS FT 3</i>	<i>15 POUNDS FT 3</i>
1.0	20,000	24,000	27,000	30,000
1.5	30,000	36,000	40,500	45,000
2.0	40,000	48,000	54,000	60,000
2.5	50,000	60,000	67,500	75,000
3.0	60,000	72,000	81,000	90,000
4.0	80,000	96,000	108,000	120,000
5.0	100,000	120,000	135,000	150,000
6.0	120,000	144,000	162,000	180,000
7.0	140,000	168,000	189,000	210,000
8.0	160,000	192,000	216,000	240,000
9.0	180,000	216,000	243,000	270,000
10.0	200,000	240,000	270,000	300,000
12.0	240,000	288,000	324,000	360,000
15.0	300,000	360,000	405,000	450,000
20.0	400,000	480,000	540,000	600,000
25.0	500,000	600,000	675,000	750,000
30.0	600,000	720,000	810,000	900,000
35.0	700,000	840,000	945,000	1,050,000
40.0	800,000	960,000	1,080,000	1,200,000
45.0	900,000	1,080,000	1,215,000	1,350,000
50.0	1,000,000	1,200,000	1,350,000	1,500,000
55.0	1,100,000	1,320,000	1,485,000	1,650,000
60.0	1,200,000	1,440,000	1,620,000	1,800,000
70.0	1,400,000	1,680,000	1,890,000	2,100,000

## SIZING TABLES

TANK DIAMETER INCHES	TANK DIAMETER SQUARE FT. BED AREA	CU. FT. PER INCH OF HEIGHT	BACKWASH RATE IN GPM PER SQUARE FOOT OF BED AREA AT:				
			5 GPM	8 GPM	10 GPM	12 GPM	15 GPM
6	0.196	0.016	1.0	1.6	2.0	2.4	2.9
7	0.267	0.022	1.3	2.1	2.7	3.2	4.0
8	0.35	0.029	1.8	2.8	3.5	4.2	5.3
9	0.44	0.036	2.2	3.5	4.4	5.3	6.6
10	0.55	0.042	2.8	4.4	5.5	6.6	8.3
12	0.79	0.066	4.0	6.3	7.9	9.5	11.9
13	0.92	0.077	4.6	7.4	9.2	11.0	13.8
14	1.07	0.089	5.4	8.6	10.7	12.8	16.1
16	1.4	0.117	7.0	11.2	14.0	16.8	21
21	2.4	0.2	12	19.2	24.0	28.8	36
22	2.64	0.22	13.2	21.1	26.4	31.6	39.6
24	3.14	0.262	15.7	25.1	31.4	37.7	47.1
30	4.9	0.408	24.5	39.2	49.0	58.8	73.5
36	7.07	0.589	35.4	56.6	70.7	84.8	106
42	9.62	0.802	48.1	76.9	96.2	115.4	144.3
48	12.57	1.048	62.9	100.6	125.7	150.8	188.6
54	15.9	1.325	79.5	127.2	159.0	190.8	238.1
60	19.63	1.636	98.2	157.0	196.3	235.6	294.5
66	23.76	1.98	118.8	190.1	237.6	285.1	356.1
72	28.27	2.356	141.4	226.2	282.7	339.2	424

MEDIA	POUNDS FT 3	SERVICE RATE GPM/SQ. FT.	BACKWASH RATE GPM/SQ. FT.	BED DEPTH INCHES	BED EXPANSION %
BIRM	50	3.5 TO 5	10 TO 12	30 TO 36	35 TO 50
MANG. GREENSAND	85	5	8 TO 12	30	35 TO 50
CARBON	27.5	5	8 TO 10	26 TO 30	30 TO 40
FILTER AG	25	5	8 TO 10	24 TO 36	35 TO 50
CALCITE	100	3 TO 6	8 TO 12	24 TO 30	35
COROSEX	100	5 TO 6	8 TO 12	24 TO 30	35
CATALOX	120	4 TO 10	17 TO 23	30 TO 36	30 TO 50
RESIN (STD)	50	20 TO 30	3 TO 8	24 TO 30	50
RESIN (FINE MESH)	50	15 TO 20	2.5 TO 4	20 TO 30	50

$$\frac{\text{Cubic Feet of Media}}{\text{Cubic Feet per Inch of Hgt}} = \text{Media Height in Inches}$$

## TERMS & CONDITIONS

### **Minimum Orders**

Minimum order is \$50 per shipment.

### **Payment Terms, Domestic Customers**

Payments are due within thirty (30) days from the date of invoice with prior credit approval. Otherwise, payments are due prior to shipment by check, funds transfer, or credit card. COD shipments are to be paid by certified, cashier's, or company check with credit references provided.

### **Payment Terms, International Customers**

Payments are due in U.S. dollars by advance payment, funds transfer, check, or credit card, covering merchandise and any prepaid freight charges that may apply.

Irrevocable letters of credit are accepted with a minimum order of \$20,000 in U.S. dollars, per order. Letters of credit must be in favor of Blake Water Solutions; stipulate payment is based on sight of shipping papers; state all charges to be applied to buyer's account, and specify F.O.B. point is ex-factory. (Additional banking and processing fees will be charged.)

### **Shipment**

All shipments are F.O.B. distribution centers, located in the United States.

### **Transportation**

Claims for goods damaged in shipment or shortages must be made by customer directly with freight carrier.

### **Returns**

All returns must be approved by Blake Water Solutions, and a Returns Goods Authorization (RGA) must be issued. A twenty-five (25) percent restocking charge may apply to authorized returns. Once an RGA is issued, merchandise is to be returned to Blake Water Solutions, freight prepaid. (Please see Returns Goods Policy for more details.)

### **Verbal Orders**

We ask our customers to place all orders in writing. Verbal orders (and verbal changes to orders) will be accepted only with the understanding that Blake Water Solutions is not responsible to cover freight charges for returned merchandise placed by verbal order. Furthermore, all merchandise returned for credit placed on a verbal purchase order is subject to a twenty-five (25) percent restocking charge, unless confirmation has been received during office hours, prior to shipment.

### **Limited Warranty**

Most Blake Water Solutions products come with a limited warranty covering materials and workmanship. Some products sold by Blake Water Solutions have no warranty, or they are covered by the original manufacturer's warranty. Please contact Blake Water Solutions and refer to Limited Warranty information for more details.

### **Deposit / Partial Payment for Custom Products and Products Made-to-Order**

Custom products, including all package filtration systems, custom reverse osmosis equipment, industrial filter housings made to AMSE design specifications and other products made-to-order require a deposit before the order can be accepted. (Please contact our customer service department for a copy of our deposit schedule.) Furthermore, this equipment cannot be returned under any circumstances.

### **Prices**

We make every effort to notify customers with price change information. However, prices are subject to change without notice.

### **Past Due Accounts**

A 1.5% per month service charge will be applied to all accounts past due thirty (30) days or more.

### **Policy**

The terms and conditions described above supersede any previously written terms and conditions that appear in company documents. Any changes to our terms and conditions must be authorized by Blake Water Solutions.

## RETURN GOODS POLICY

1. Customers are to provide the following information:
  1. Contact name
  2. Company name
  3. Customer number
  4. Products to be returned and reason for the return
  5. Customer's P.O. number under which the goods were purchased (if issued)
  6. Blake Water Solutions' invoice number under which the good were purchased
2. Requests for returns must be approved by the Return Goods Administrator, and only the RGA Administrator shall issue Return Goods Authorizations.
3. No products may be returned, nor shall credits be processed until written approval has been issued by the Blake Water Solutions RGA Administrator.
4. Transportation costs and risk of damage or loss in transit are the customer's responsibility.
5. Goods returned for credit or refund, including goods returned for inspection under warranty, must be shipped to the warehouse by prepaid transportation. No "collect" shipments will be accepted.
6. Customers should not return merchandise unless a Return Goods Authorization has been issued. Please note RGA numbers on the shipping label for proper processing, and include a copy of the RGA form inside the shipping carton for prompt attention.
7. Products not currently offered for sale as standard will not be accepted for credit.
8. Only salable goods may be returned.
9. Custom products, such as backwashing filters, filtration systems, and commercial softeners, may not be returned.
10. Commercial and residential RO systems that have been installed may not be returned under any circumstances.
11. Authorized credits will be issued at the price paid, less a twenty-five (25) percent restocking charge plus repackaging costs (if necessary).

### ***Important***

If customers claim returns are due to company error, the burden of proof is the customer's responsibility. If the matter cannot be resolved by telephone, customer may elect to return merchandise by prepaid freight for inspection, so the matter may be further investigated.

If the company agrees we are in error, return freight costs will be credited or refunded to the customer.







## Committed To America

- Control Valves produced in Wisconsin (in Milwaukee, Brookfield, and Windsor)
- Media Tanks Manufactured in Chardon, Ohio
- Resin Produced in Bala Cynwyd, Pennsylvania
- Product Fully Assembled in Bloomfield, Connecticut

## Committed to Quality

### ONEONTA

Route 23 Southside  
Oneonta, NY 13820  
Phone: (800) 336-6611  
Fax: (607) 432-0470

### SYRACUSE

6059 Corporate Drive  
East Syracuse, NY 13057  
Phone: (800) 792-2346  
Fax: (315) 432-9803

### ALBANY

13 Thatcher Street  
Albany, NY 12207  
Phone: (518) 465-0713  
Fax: (518) 465-1747

### CALEDONIA

1790 McKenzie Road  
Caledonia, NY 14423  
Phone: (585) 746-8055  
Fax: (585) 226-8016

### GREENFIELD

28 Butternut Street  
Greenfield, MA 01301  
Phone: (800) 628-1998  
Fax: (413) 773-9052

### DANBURY

34 Executive Drive  
Danbury, CT 06810  
Phone: (800) 791-7867  
Fax: (203) 797-9741

### PINE ISLAND

76 Skinner Lane  
P.O. Box 716  
Pine Island, NY 10969  
Phone: (800) 914-0099  
Fax: (845) 258-7870

### SOUTH WINDSOR

41 Commerce Way  
South Windsor, CT 06074  
Phone: (800) 593-7867  
Fax: (860) 289-4762

### PASCOAG

222 Davis Drive  
Pascoag, RI 02859  
Phone: (800) 869-7677  
Fax: (401) 568-9310

### RUTLAND

157 Quality Lane  
Rutland, VT 05701  
Phone: (800) 643-7100  
Fax: (802) 775-6498

### ALTON

166 Wolfeboro Hwy  
P.O. Box 9  
Alton, NH 03809  
Phone: (800) 552-0389  
Fax: (603) 875-2901

### HERMON

1194 Odlin Road  
Hermon, ME 04401  
Phone: (800) 450-6822  
Fax: (207) 947-6845

### PORTLAND

470 Riverside St.  
Portland, ME 04103  
Phone: (800) 308-2213  
Fax: (207) 892-3131