

Water Softeners Overview and Sizing Information

About Water Softeners

Hard Water contains dissolved minerals in the form of Calcium (Ca), Magnesium (Mg), and Iron (Fe). Removal of these minerals is accomplished by softening the water through an ion exchange process. As the water flows through the mineral tank, the dissolved minerals become attached to the resin, creating soft water. Over a period of time the resin will become exhausted, and the softener will regenerate using a brine solution produced from the salt in the brine tank.

Advantages to Using Water Softeners

- Prevents Hard Water Scale
- Provides Excellent Scale Prevention Pretreatment for Reverse Osmosis Systems
- Prevents Staining on Bathroom & Kitchen Fixtures as well as Dishes, Dishwasher, Washing Machine & Clothes
- Significantly Reduces Soap and Cleaning Product Consumption
- Reduces Water Heating Costs
- Prolongs Life of RO Membranes, Water Heaters, Icemakers, Dishwashers, Coffeemakers & Plumbing Fixtures



Sizing and Selection Information

Step 1: Calculate Total Hardness as GPG

Usually chemical analyses report calcium (Ca) and magnesium (Mg) in terms of parts per million (ppm) as calcium carbonate (CaCO₃). However, in some cases, the analysis is reported in terms of the elements themselves. If this is the case, proceed as follows:

Calcium (as Ca) _____ × 2.50 = _____ ppm Ca as CaCO₃. (A)
 Magnesium (as Mg) _____ × 4.10 = _____ ppm Mg as CaCO₃. (B)

A _____ + B _____ = _____ Total Hardness PPM as CaCO₃

Total Hardness PPM as CaCO₃ _____ ÷ 17.1 = _____ GPG as CaCO₃.

Step 2: Calculate Cubic Feet of Resin Required

_____ Gallons per Day × _____ Total Hardness (GPG) = _____ Grains per Day

_____ Grains per Day ÷ 30,000 = _____ Cubic Feet of Resin Required

Select the appropriate softener based on the volume of resin.
 When between sizes, it is recommended to select the next size up.

Note: The above calculations are based on daily regeneration and maximum resin capacity. Regeneration based on 15 lbs. of salt per cubic foot of resin.



Single Water Softeners – Time-Based Regeneration

Single Water Softeners with a timed valve are programmed to regenerate at a specific time of day. They are usually scheduled to regenerate at 2am, when the demands for soft water are expected to be very low. These can be set to regenerate after a specific number of days, or on certain days of the week.

Features and Specifications of AMI Water Softeners

- High quality, high capacity softening resin which complies with FDA regulations for potable water applications and is NSF/ANSI-61 Certified for material safety
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day, and days until next regeneration (21" dia. Units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42" & 48" dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature (Optional stainless steel jackets are available for 9"-16" diameter tanks upon request.)
- Regeneration: Time Clock Delayed (Pressure differential or PLC-controlled options are available upon request.)



with optional SS jacket

Model No.*	Flow Rate** (gpm)		Backwash Flow** (gpm)	Volume of Resin (cu.ft.)		Resin Tank (Dia"×H")	Brine Tank (Dia"×H")	Valve & In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm/ft ²	15gpm/ft ²		Softening Resin (only)	Total (Incl. Underbed)				
W-S744ETS	1	4	1.3	0.50	0.60	7×44	18×33	1"	100
W-S844ETS	2	5	1.7	0.60	0.70	8×44	18×33	1"	105
W-S940ETS	2	6	2.2	0.75	0.85	9×40	18×40	1"	115
W-S1054ETS	2	7	2.7	1.25	1.45	10×54	18×40	1"	150
W-S1252ETS	4	12	4.2	1.75	2.05	12×52	18×40	1"	190
W-S1354ETS	4	14	5.3	2.00	2.30	13×54	18×40	1"	225
W-S1465ETS	5	16	5.3	3.00	3.50	14×65	24×41	1"	335
W-S1665ETS	7	21	6.5	3.50	4.00	16×65	24×41	1"	385
W-S2162ETS	13	36	13	6.00	7.00	21×62	30×48	1.5"	645
W-S2472ETS	15	47	15	8.00	10.0	24×72	39×48	1.5"	950
W-S3072ETS	24	74	25	12.5	16.5	30×72	39×48	2"	1,535
W-S3672ETS	35	95	35	17.0	22.0	36×72	39×60	2"	1,950
W-S4272ETS	48	144	50	23.0	30.0	42×72	42×60	3"	2,950
W-S4872ETS	60	188	60	30.0	43.6	48×72	60×60	3"	4,360

Notes

* Softeners are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-S744ETS-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI Water Softeners are offered standard with new state of the art electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



Single Water Softeners – Meter-Based Regeneration

Metered Water Softeners regenerate based on your water usage. Like the timed softeners, these can be programmed to regenerate at a certain time during the day, but instead of regenerating on a specific day as a timed softener does, the metered softener does not schedule regeneration until the specified volume of water has passed through the softener. These units can save water by preventing unnecessary regenerations since it does not regenerate until the resin is near its capacity.

Features & Specifications

- High quality, high capacity softening resin which complies with FDA regulations for potable water applications and is NSF/ANSI-61 Certified for material safety
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next regeneration (21" dia. Units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42" & 48" dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9"-16" diameter tanks upon request.)
- Regeneration: Meter Delayed



with optional SS jacket

Model No.*	Flow Rate** (gpm)		Backwash Flow** (gpm)	Volume of Resin (cu.ft.)		Resin Tank (dia"×H")	Brine Tank (dia"×H")	Valve & In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm/ft²	15gpm/ft²		Softening Resin (only)	Total (Incl. Underbed)				
W-S744EMS	1	4	1.3	0.50	0.60	7×44	18×33	1"	100
W-S844SEMS	2	5	1.7	0.60	0.70	8×44	18×33	1"	105
W-S940EMS	2	6	2.2	0.75	0.85	9×40	18×40	1"	115
W-S1054EMS	2	7	2.7	1.25	1.45	10×54	18×40	1"	150
W-S1252EMS	4	12	4.2	1.75	2.05	12×52	18×40	1"	190
W-S1354EMS	4	14	5.3	2.00	2.30	13×54	18×40	1"	225
W-S1465EMS	5	16	5.3	3.00	3.50	14×65	24×41	1"	335
W-S1665EMS	7	21	6.5	3.50	4.00	16×65	24×41	1"	385
W-S2162EMS	13	36	13	6.00	7.00	21×62	30×48	1.5"	645
W-S2472EMS	15	47	15	8.00	10.0	24×72	39×48	1.5"	950
W-S3072EMS	24	74	25	12.5	16.5	30×72	39×48	2"	1,535
W-S3672EMS	35	95	35	17.0	22.0	36×72	39×60	2"	1,950
W-S4272EMS	48	144	50	23.0	30.0	42×72	42×60	3"	2,950
W-S4872EMS	60	188	60	30.0	43.6	48×72	60×60	3"	4,360

Notes

* Softeners are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-S744EMS-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI Water Softeners are offered standard with new state of the art electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



Twin Alternating Water Softeners

About Twin Alternating Water Softeners

Twin softeners are ideal for situations where uninterrupted flow of soft water is a must. One resin tank is always in service, while the other tank is in standby. When the meter determines that the resin is near its capacity, it will switch the tank in standby to be in service, and the tank containing the exhausted resin will begin regeneration and wait in standby until the other tank is ready for regeneration.



Features & Specifications

- High quality, high capacity softening resin which complies with FDA regulations for potable water applications and is NSF/ANSI-61 Certified for material safety
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next regeneration (21+'' dia. Units also display current flow rate, and total volume used)
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42'' & 48'' dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9''-16'' diameter tanks upon request.)
- Regeneration: Meter Immediate (Pressure differential options are available upon request.)

Model No.*	Flow Rate** (GPM)		Backwash Flow** (GPM)	Volume of Resin (Cu. Ft.)				Resin Tank (2) (Dia"×H")	Brine Tank (Dia"×H")	Valve & In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm per ft²	15gpm per ft²		Softening Resin (Only)		Total (Incl. Underbed)					
				Per Tank	Total	Per Tank	Total				
W-S744EMT	1	4	1.3	0.50	1.00	0.60	1.2	7×44	18×33	1"	160
W-S844EMT	2	5	1.7	0.60	1.20	0.70	1.4	8×44	18×33	1"	170
W-S940EMT	2	6	2.2	0.75	1.50	0.85	1.7	9×40	18×40	1"	190
W-S1054EMT	2	7	2.7	1.25	2.50	1.45	2.9	10×54	18×40	1"	265
W-S1252EMT	4	12	4.2	1.75	3.50	2.05	4.1	12×52	18×40	1"	340
W-S1354EMT	4	14	5.3	2.00	4.00	2.30	4.6	13×54	18×40	1"	415
W-S1465EMT	5	16	5.3	3.00	6.00	3.50	7.0	14×65	24×41	1"	610
W-S1665EMT	7	21	6.5	3.50	7.00	4.00	8.0	16×65	24×41	1"	705
W-S2162EMT	13	36	13	6.00	12.0	7.00	14.0	21×62	30×48	1.5"	1,185
W-S2472EMT	15	47	15	8.00	16.0	10.0	20.0	24×72	39×48	1.5"	1,760
W-S3072EMT	24	74	25	12.5	25.0	16.5	33.0	30×72	39×48	2"	2,925
W-S3672EMT	35	95	35	17.0	34.0	22.0	44.0	36×72	39×60	2"	3,760
W-S4272EMT	48	144	50	23.0	46.0	30.0	60.0	42×72	42×60	3"	5,730
W-S4872EMT	60	188	60	30.0	60.0	43.6	87.2	48×72	60×60	3"	8,520

Notes

* Softeners are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.

120V AC/60Hz with USA cord = **US** Example: W-S744EMT-**US**

European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI Water Softeners are offered standard with new state of the art electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



Carbon Filters with Automatic Backwash

About Carbon Filters

These filters are used to reduce chlorine, organics, color, tannin, and objectionable tastes and odors from water. Automatic backwashing system removes the trapped contaminants within the filter bed and washes them down the drain. Carbon filtration significantly reduces the following contaminants:

- Chlorine & Chlorine By-Products such as Trihalomethanes (THMs)
- Bad Tastes and Odors
- Turbidity
- Herbicides, Pesticides & Insecticides
- Volatile Organic Chemicals (VOCs)

Features and Specifications of AMI Carbon Filters

- High quality liquid phase bituminous coal base carbon meets ANSI/NSF Standard 61 and Food Chemicals Codex Standards for drinking water applications.
(Carbon filters using California Prop. 65 tested coconut shell carbon for CA drinking water applications are available upon request.)
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21" dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42" & 48" dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. *(Optional stainless steel jackets are available for 9"-16" diameter tanks upon request.)*
- Backwash: Time Clock Delayed *(Metered, pressure-differential and PLC-controlled options are available upon request.)*



Model No.*	Flow Rate** (GPM)		Backwash Flow** (GPM)	Volume of Media (ft³)		Resin Tank (Dia"×H")	Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm/ft²	15gpm/ft²		Carbon (Only)	Total (Incl. Underbed)				
W-G744ET	1	4	2.2	0.50	0.60	7×44	1"	1"	55
W-G844ET	2	5	2.7	0.60	0.70	8×44	1"	1"	60
W-G940ET	2	6	3.2	0.75	0.85	9×40	1"	1"	65
W-G1054ET	2	7	4.2	1.25	1.45	10×54	1"	1"	90
W-G1252ET	4	12	6.5	1.75	2.05	12×52	1"	1"	115
W-G1354ET	4	14	7.5	2.00	2.30	13×54	1"	1"	145
W-G1465ET	5	16	7.5	3.00	3.50	14×65	1"	1"	205
W-G1665ET	7	21	15	3.50	4.00	16×65	1"	1"	240
W-G2162ET	13	36	25	6.00	7.00	21×62	1.5"	1.5"	415
W-G2472ET	15	47	35	8.00	10.0	24×72	1.5"	1.5"	640
W-G3072ET	24	74	55	12.5	16.5	30×72	2"	2"	1115
W-G3672ET	35	106	75	17.0	22.0	36×72	2"	2"	1420
W-G4272ET	48	144	100	23.0	30.0	42×72	3"	3"	2270
W-G4872ET	60	188	120	30.0	43.6	48×72	3"	3"	3325

Notes

* Carbon filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-G744ET-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI carbon filters are offered standard with electronic programmable valves, but may be ordered with Fleck valve heads upon request.



Multi-Media Filters for Sediment Removal

About Multi-Media Filters

These filters contain several types of media and gravel under-bedding. Multi-media filtration is a proven design concept; the coarse media layers in the top of the tank trap large particles and successively smaller particles are trapped in the finer layers of media deeper in the bed. The result is a highly efficient filtering since removal takes place throughout the entire bed. Multi-Media depth filters typically remove particles 5-15 microns in size or larger. All media included in our filters are carefully selected according to particle size, so the media retains its stratification during backwash and rinse. Automatic backwashing system removes the trapped contaminants within the filter bed and washes them down the drain.



With Optional SS Jacket

Features and Specifications of AMI Multi-Media Filters

- Filtration media classified by Underwriters Laboratories Inc.® in Accordance with Standard ANSI/NSF 61.
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21+" dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42" & 48" dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9"-16" diameter tanks upon request.)
- Backwash: Time Clock Delayed (Metered, pressure-differential and PLC-controlled options are available upon request.)

Model No.*	Flow Rate** (GPM)		Backwash Flow** (GPM)	Volume of Media (ft³)		Resin Tank (Dia"×H")	Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm/ft²	15gpm/ft²		Filtration (Only)	Total (Incl. Underbed)				
W-MB744ET	1	4	4.2	0.50	0.60	7×44	1"	1"	80
W-MB844ET	2	5	5.3	0.60	0.70	8×44	1"	1"	90
W-MB940ET	2	6	6.5	0.75	0.85	9×40	1"	1"	100
W-MB1054ET	2	7	7.5	1.25	1.45	10×54	1"	1"	150
W-MB1252ET	4	12	11	1.75	2.05	12×52	1"	1"	200
W-MB1354ET	4	14	15	2.00	2.30	13×54	1"	1"	250
W-MB1465ET	5	16	15	3.00	3.50	14×65	1"	1"	365
W-MB1665ET	7	21	20	3.50	4.00	16×65	1"	1"	425
W-MB2162ET	13	36	35	6.00	7.00	21×62	1.5"	1.5"	730
W-MB2472ET	15	47	45	8.00	10.0	24×72	1.5"	1.5"	1,060
W-MB3072ET	24	74	75	12.5	16.5	30×72	2"	2"	1,755
W-MB3672ET	35	106	105	17.0	22.0	36×72	2"	2"	2,280
W-MB4272ET	48	144	140	23.0	30.0	42×72	3"	3"	3,445
W-MB4872ET	60	180	175	30.0	43.6	48×72	3"	3"	5,050

Notes

- * Media filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
120V AC/60Hz with USA cord = **US** Example: W-MB744ET-**US**
European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)
- ** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.
- Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI media filters are offered standard with electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



Filter-AG Filters for More Efficient Sediment Removal

About Filter-AG

Filter-Ag is a non-hydrous silicon dioxide media which can be used as highly efficient filter media for the reduction of suspended matter.

Advantages of Filter-AG

- Less pressure loss than most other media filters
- Light weight requires lower back-wash rates & reduces shipping costs
- High service rates for lower equipment costs
- High sediment reduction capacity for longer filter runs, with a substantial savings in backwash water & time out of service

Features and Specifications of AMI Filter-AG Filters

- High quality, high capacity filter media, Classified by Underwriters Laboratories Inc.[®] in Accordance with Standard ANSI/NSF 61.
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21+" dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42" & 48" dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9"-16" diameter tanks upon request.)
- Filter-Ag Limits: Maximum water temperature: 140°F/60°C
- Backwash: Time Clock Delayed (Metered, pressure-differential and PLC-controlled options are available upon request.)



Model No.*	Flow Rate** (GPM)		Backwash Flow** (GPM)	Volume of Media (ft ³)		Resin Tank (Dia"×H")	Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
	5gpm/ft ²	15gpm/ft ²		Filter-AG (Only)	Total (Incl. Underbed)				
W-MA744ET	1	4	2.7	0.50	0.60	7×44	1"	1"	55
W-MA844ET	2	5	3.2	0.60	0.70	8×44	1"	1"	58
W-MA940ET	2	6	4.2	0.75	0.85	9×40	1"	1"	60
W-MA1054ET	2	7	5.3	1.25	1.45	10×54	1"	1"	85
W-MA1252ET	4	12	7.5	1.75	2.00	12×52	1"	1"	110
W-MA1354ET	4	14	9	2.00	2.30	13×54	1"	1"	140
W-MA1465ET	5	16	10	2.50	3.00	14×65	1"	1"	190
W-MA1665ET	7	21	15	3.50	4.00	16×65	1"	1"	235
W-MA2162ET	13	36	25	6.00	7.00	21×62	1.5"	1.5"	405
W-MA2472ET	15	47	30	8.00	10.0	24×72	2"	2"	635
W-MA3072ET	24	74	50	12.5	16.5	30×72	2"	2"	1,095
W-MA3672ET	35	106	70	17.0	22.0	36×72	2"	2"	1,395
W-MA4272ET	48	144	100	23.0	30.0	42×72	2"	2"	2,225
W-MA4872ET	60	180	125	30.0	43.6	48×72	2"	2"	3,425

Notes

* Filter-AG filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-MA744ET-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

** 5 gpm per sq. ft. of media is the best design condition for filtration. For relatively clean water, you may go up to design criteria of 15 gpm per sq. ft. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI Filter-AG filters are offered standard with electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



Pyrolox Filters for Reducing Iron, Sulfur & Manganese

About Pyrolox

A mined Ore, Pyrolox is a mineral form of manganese dioxide which effectively reduces iron, sulfur, and manganese from problem water. Pyrolox works on a principle whereby the hydrogen sulfide, iron and manganese are oxidized and trapped on the media while simple backwashing cleans the bed. No chemical regeneration is required, nothing is imparted into the drinking water and Pyrolox has a high capacity for low contaminant concentrations. Pyrolox can be used in conjunction with aeration, chlorination, ozone or other pretreatment methods for difficult applications. Chlorine or other oxidants accelerate the catalytic reaction.

Advantages of Pyrolox

- 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

Features and Specifications of AMI Pyrolox Filters

- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21" dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9"-16" diameter tanks upon request.)
- Backwash: Time Clock Delayed (Metered, pressure-differential & PLC-controlled options are available upon request.)
- Pyrolox Operating Conditions: pH: 6.5 - 9.0; Because of its heavy weight, it is very important that Pyrolox filters are backwashed properly to insure adequate bed expansion and continued service life.



With Optional SS Jacket

Model No.*	Service Flow Rate** (GPM)	Backwash Flow** (GPM)	Volume of Media (ft ³)		Resin Tank (Dia"xH")	Control Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
			Pyrolox (Only)	Total (Incl. Underbed)				
W-MFI744PET	1.3	6.5	0.5	0.6	7×44	1"	1"	110
W-MFI844PET	1.7	7.5	0.6	0.7	8×44	1"	1"	120
W-MFI940PET	2.2	11	0.7	0.8	9×40	1"	1"	135
W-MFI1054PET	2.7	13	1.2	1.4	10×54	1"	1"	215
W-MFI1252PET	3.9	17	1.7	2.0	12×52	1"	1"	295
W-MFI1354PET	4.6	20	2.0	2.3	13×54	1"	1"	360
W-MFI1465PET	5.3	25	2.5	3.0	14×65	1"	1"	460
W-MFI1665PET	7.0	30	3.5	4.0	16×65	1.5"	1.5"	635
W-MFI2162PET	12.0	45	6.0	7.0	21×62	1.5"	1.5"	1,060
W-MFI2472PET	15.7	75	7.5	9.5	24×72	2"	2"	1,440

Notes

- * Pyrolox filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
120V AC/60Hz with USA cord = **US** Example: W-MFI744PET-**US**
European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)
- ** 5 gpm per sq. ft. of media is the best design condition for filtration. Backwash flow rate based on 25 psi pressure drop.

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI Pyrolox filters are offered standard with electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



Manganese Greensand Filters for Iron Reduction

About Manganese Greensand

Manganese Greensand is formulated from a glauconite greensand which is capable of reducing iron, manganese and hydrogen sulfide from water through oxidation and filtration. When the oxidizing capacity power of the Manganese Greensand bed is exhausted, the bed has to be regenerated with a weak potassium permanganate (KMnO₄) solution.

Advantages of Manganese Greensand

- 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

Features and Specifications of AMI Manganese Greensand Filters

- Manganese Greensand filtration media is Certified to ANSI/NSF Standard 61
- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21" dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation (20-volt output for 42" & 48" dia. units)
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9"-16" diameter tanks upon request.)
- Regeneration/Backwash*: Time Clock Delayed (Metered, pressure-differential & PLC-controlled options are available upon request.)
- Manganese Greensand Limits: Maximum water temperature: 80°F/26.7°C; pH Range: 6.2-8.5



Model No.**	Service Flow Rate*** (GPM)	Backwash Flow** (GPM)	Volume of Media (ft ³)		Resin Tank (Dia"xH")	Regen. Tank (Dia"xH")	Control Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
			Greensand (Only)	Total (Incl. Underbed)					
W-MFI744GET	1.3	2.7	0.50	0.60	7×44	18×33	1"	1"	85
W-MFI844GET	1.7	3.2	0.60	0.70	8×44	18×33	1"	1"	95
W-MFI940GET	2.2	4.2	0.75	0.85	9×40	18×40	1"	1"	110
W-MFI1054GET	2.7	5.3	1.25	1.45	10×54	18×40	1"	1"	165
W-MFI1252GET	3.9	7.5	1.75	2.00	12×52	18×40	1"	1"	225
W-MFI1354GET	4.6	9	2.00	2.30	13×54	18×40	1"	1"	270
W-MFI1465GET	5.3	10	2.50	3.00	14×65	27×41	1"	1"	350
W-MFI1665GET	7.0	15	3.50	4.00	16×65	--	1"	1"	460
W-MFI2162GET	12.0	25	6.00	7.00	21×62	--	1.5"	1.5"	795
W-MFI2472GET	15.7	30	8.00	10.0	24×72	--	2"	2"	1,145
W-MFI3072GET	24.5	50	12.5	16.5	30×72	--	2"	2"	1,900
W-MFI3672GET	35.3	70	17.0	22.0	36×72	--	2"	2"	2,490
W-MFI4272GET	48.1	100	23.0	30.0	42×72	--	2"	2"	3,690
W-MFI4872GET	63.0	125	30.0	43.6	48×72	--	2"	2"	5,340

Notes

* Manganese greensand filters with tank diameters up to 14" can be regenerated intermittently, and the regeneration feed is included. Filters with tank diameters of 16" and larger require continuous injection of potassium permanganate which will require a tank and feeder. The size of the injection system (sold separately) will depend on the water quality.

** Manganese Greensand filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering. 120V AC/60Hz with USA cord = **US** Example: W-MFI744ETG-**US**
European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)

*** 5 gpm per sq. ft. of media is the best design condition for filtration. Backwash flow rate based on 25 psi pressure drop

Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. AMI greensand filters are offered standard with electronic programmable valves, but may be ordered with electromechanical Fleck valve heads upon request.



Calcite Filters for Neutralizing pH of Water

About Calcite

Calcite is a naturally occurring calcium carbonate media. One of the advantages of Calcite is its self-limiting property. When properly applied, it corrects pH only enough to reach a non-corrosive equilibrium. It does not overcorrect under normal conditions. Upon contact with calcite, acidic waters slowly dissolve the calcium carbonate to raise the pH which reduces potential leaching of copper, lead and other metals found in typical plumbing systems. Periodic backwashing will prevent packing, reclassify the bed and maintain high service rates. Depending on pH, water chemistry and service flow, the Calcite bed will have to be periodically replenished as the Calcite is depleted. As the Calcite's calcium carbonate neutralizes the water, it will increase hardness and a softener may become necessary after the neutralizing filter.

Advantages of Calcite

- Naturally occurring, inexpensive material
- Low uniformity coefficient for maximum contact
- Slower Reacting for controlled pH correction

Features and Specifications of AMI Calcite Filters

- Fully automated with state of the art electronic control valve featuring:
 - Solid state microprocessor with easy access front panel settings
 - Front panel display with time of day & gallons until next backwash (21+" dia. units also display current flow rate, and total volume used)
 - Days override feature; 1-28 days available
 - Coin Cell Lithium battery back-up with 8 hour carry over
 - Stores system configuration and operation data in nonvolatile memory
 - 12-volt output AC Adapter provides safe and easy installation
- High quality FRP/Composite Resin Tank, rated at 150 psi maximum operating pressure and 120°F maximum operating temperature. (Optional stainless steel jackets are available for 9"-16" diameter tanks upon request.)
- Backwash: Time Clock Delayed (Metered, pressure-differential & PLC-controlled options are available upon request.)



With Optional SS Jacket

Model No.*	Service Flow Rate** (GPM)	Backwash Flow** (GPM)	Volume of Media (ft ³)		Resin Tank (Dia"xH")	Control Valve Size	In/Out Conn.	Approx. Shipping Wt. (lbs)
			Calcite (Only)	Total (Incl. Underbed)				
W-N744ET	1.3	2.7	0.5	0.6	7×44	1"	1"	90
W-N844ET	1.7	3.2	0.6	0.7	8×44	1"	1"	100
W-N940ET	2.2	4.2	0.7	0.8	9×40	1"	1"	110
W-N1054ET	2.7	5.3	1.2	1.4	10×54	1"	1"	175
W-N1252ET	3.9	7.5	1.7	2.0	12×52	1"	1"	225
W-N1354ET	4.6	9	2.0	2.4	13×54	1"	1"	285
W-N1465ET	5.3	10	2.6	3.1	14×65	1"	1"	375
W-N1665ET	7	15	3.6	4.1	16×65	1"	1"	490
W-N2162ET	12	25	5.9	6.9	21×62	1.5"	1.5"	820
W-N2472ET	15.7	30	8.0	10.0	24×72	2"	2"	1,200
W-N3072ET	24.5	50	12.4	16.4	30×72	2"	2"	1,965
W-N3672ET	35.3	70	17.1	22.1	36×72	2"	2"	2,595
W-N4272ET	48.1	100	23.1	30.1	42×72	2"	2"	3,855
W-N4872ET	63.0	125	30.3	43.8	48×72	2"	2"	5,565

Notes

- * Calcite filters are available with USA or European style plugs and voltages. Please add the appropriate voltage code to the end of the model when ordering.
 120V AC/60Hz with USA cord = **US** Example: W-N744ET-**US**
 European 220V AC = **EU** (EU plug is removable to convert into universal 220v cord)
 ** 5 gpm per sq. ft. of media is the best design condition for filtration. Backwash flow rate based on 25 psi pressure drop.



Skid mounting, control panel and custom sizes and configurations (shown on right) are available upon request. Offered standard with electronic programmable valves, but may be ordered with electromechanical Fleck valves upon request.



Filtration Media and Resin

Carbon, Sediment, Iron Reduction, & Support Media

Carbon Media

Model No.	Type	Mesh Size	Grade	Applications	Volume/Wt per Bag	
					cu.ft.	lbs.
YMC0830COAL	Coal Base	8×30	Regular	Industrial/Non-Critical	1	27.5
YMC1240COAL	Coal Base	12×40	Regular	Industrial/Non-Critical	1	27.5
YMC1240HCOAL	Coal Base	12×40	High Density	Large Industrial	1	33.0
YMC0830HAWCOAL	Coal Base	8×30	HD Acid Washed	Potable Water	1	33.0
YMC1240HAWCOAL	Coal Base	12×40	HD Acid Washed	Potable Water	1	33.0
YMC0830RCOCO	Coconut Shell	8×30	Regular	Beverage, Dialysis	1	27.5
YMC1240RCOCO	Coconut Shell	12×40	Regular	Beverage, Dialysis	1	27.5
YMC1240RCOCO65*	Coconut Shell	12×40	Regular, Prop 65 Tested	Beverage, Dialysis	1	27.5
YMC1240AWCOCO	Coconut Shell	12×40	Acid Washed	Beverage, Dialysis	1	27.5

*YMC1240RCOCO65 Prop 65 Tested Carbon may be subject to minimum orders depending on stock and availability.
All Carbons are also available in 1100 lb. super sacks.

Sediment Filtration Media

Model No.	Description	Application	Volume (Cu. Ft.)	Weight (Lbs.)
YMFAG	Filter Ag	Sediment Removal	1	25
YMS20S	Silica Sand, #20	Sediment Removal	1	100
YMS4555	Filter Sand, 0.45-0.55 mm, 40-30 Mesh	Sediment Removal	1	100
YMG3040	Garnet, #30-40, 0.35 mm	Sediment Removal	0.38	50
YMA89	Anthracite, 0.8-0.9 mm, 10x20 Mesh	Sediment Removal	1	50
YMA1720	Anthracite, 1.7-2.0 mm, 4x12 mesh	Sediment Removal	1	50

Iron, Manganese, and H₂S Reduction Media

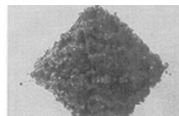
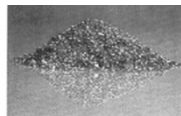
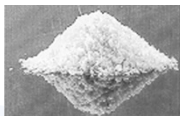
Model No.	Description	Application	Volume (Cu. Ft.)	Weight (Lbs.)
YMMNGS	Manganese Greensand	Iron Removal	1.00	85
YMP2040	Pyrolox 8x20 Mesh, 0.51 mm	Iron Removal	0.40	50
YMKDF55	KDF-55	Chlorine Reduction	0.33	57
YMKDF85	KDF-85	Fe, H ₂ S Reduction	0.33	57
YFMBIRM	Birm	Iron Removal	1.00	44
YMMTM	MTM	Iron Removal	1.00	45

Acid Neutralization Media

Model No.	Description	Application	Volume (Cu. Ft.)	Weight (Lbs.)
YMCAL	Calcite	Raise pH of Water	0.55	50

Support Media

Model No.	Description	Volume (Cu. Ft.)	Weight (Lbs.)
YMGRVL11618-50	Gravel, 1/16" x 1/8", #6	0.5	50
YMGRVL1418-50	Gravel, 1/4" x 1/8"	0.5	50
YMG812	Garnet, #8-12, 1.5 mm	0.36	50



Filtration Media and Resin



Ion Exchange Resins

DOWEX™ Ion Exchange Resin

Model No.	Description	Qty. Per Container		Exchange Capacity eq/l (kgr/ft3)
		Volume (cu.ft.)	Approx. Wt. (lbs)	
HCRSSBAG	Strong Acid Cation Exchange Resin for Residential Softening Applications, 6% Crosslinked, DOWEX HCR-S/S, Na ⁺ Form	1	25	1.9 (41.5)
HCR	Strong Acid Cation Exchange Resin for Softening and Demineralization Applications, 8% Crosslinked, DOWEX HCR-S, Na ⁺ Form	5	255	2.0 (43.7)
MARATHONCH	Strong Acid Cation Exchange Resin For Softening and Demineralizing Applications, DOWEX MARATHON C, H ⁺ Form	5	250	1.8 (39.3)
MARATHONAOH	Strong Base Anion Exchange Resin For Demineralization Applications, DOWEX MARATHAN A, OH ⁻ Form	5	200	1.0 (21.9)
MARATHONMR3	Mixed Ion Exchange Resin for Demineralization, 1:1 by Equivalent, DOWEX MARATHON MR-3, OH ⁻ & H ⁺ Form	5	210	OH ⁻ : 1.0 (21.9) H ⁺ : 1.9 (41.5)

ResinTech Ion Exchange Resins

Model No.	Description	Qty. Per Container		Exchange Capacity, (meq/L)
		Volume (cu.ft.)	Approx. Wt. (lbs)	
Softening Resins (Strong Acid Cation)				
CGS	High Capacity Gel Type Cation Resin For Softening/Deionization Applications, Na Form	1	51	1.9
CG8	Industrial Grade High Capacity Cation Resin for Softening/Deionization Applications, 8% Crosslink, Na Form	1	52	1.9
CG8-H	Industrial Grade High Capacity Cation Resin for Softening/Deionization Applications, 8% Crosslink, H Form	1	50	1.8
Weak Acid Cation Resins				
WACG	Weak Acid Gel - Dealkalization/Chemical Processing (H Form)	1	47	> 4.00
Strong Base Anion Resins				
SBG1P	Type One Porous Gel - Deionization/Mixed Beds (Cl Form)	1	43	> 1.25
SBG1P-OH	Strong Base Acrylic Type One - Deionization Systems (OH Form)	1	41	> 1.00
SBG1	Strong Base Type One Gel - Anion Removal/Deionization (Cl Form)	1	44	> 1.45
SBG1-OH	Strong Base Type One Gel - Deionization/Mixed Beds (OH Form)	1	41	1.15
SBG2	Strong Base Type Two Gel - Anion Removal/Deionization (Cl Form)	1	44	> 1.45
SBG2-HP	SBG2 - Drinking Water Grade (Cl Form)	1	44	> 1.45
SBG2-OH	Strong Base Type Two Gel - Dealkalization/Deionization (OH Form)	1	42	> 1.3
Mixed Bed Resins (Regenerated)				
MBD-10	Mixed Bed resin, RSO ₃ H ⁺ (Gel) and R ₄ N ⁺ OH ⁻ (Type One Gel)	1	43	Cation: 1.95 Anion: 1.40
MBD-15-NG	Mixed Bed Resin - General Purpose (Nuclear Grade)	1	43	Cation: 1.95 Anion: 1.25
MBD-15-SC	Mixed Bed Resin - Semiconductor Grade	1	43	Cation: 1.95 Anion: 1.25
Specialty Resins				
SIR-200	Chelating Resin - Mercury Removal (H Form)	1	41	1.10
SIR-22P-HP	High Porosity Gel Type 1 - Organic Trap (Cl Form)	1	41	n/a
SIR-100-HP	Anion Exchange Resin - Nitrate Selective (Cl Form)	1	42	0.85
SIR-110-HP	Anion Exchange Resin - Nitrate & Perchlorate (Cl Form)	1	43	0.60
SIR-300	Chelating Resin - Heavy Metals Removal (Na Form)	1	43	> 1.10
SIR-900	Absorbent - Arsenic, Fluoride & Lead	1	47	1.40



Media Filtration Components

Fleck Residential Control Valves

Fleck controls are available with the following options upon customer request:

- 7 or 12 Day Timers, Electronic timer, Metered, Pressure Differential, and Other Regeneration Methods
- Hot Water
- No Hard Water Bypass
- Manual Operation
- Bypass Valve
- Service Valve Operator
- Up-Flow Regeneration

5600 Series Valves

Typical Applications: Water Softeners 6" – 12" Diameter, Filters 8" – 10" Diameter.

Flow Rates: (50 PSI Inlet)

- Continuous (15 psi drop): 20 gpm
- Peak (25 psi drop): 26 gpm
- Max Backwash (25 psi drop): 7 gpm
- Valve Material: Noryl
- ¾" In/Out Connections
- 2½" – 8 NPSM Mounting Base
- 1600 Brine System (softener)

- Hard Water Bypass
- NSF Standard 44 Certified
- UL Registered Components

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS56BXAAS03	Softener	7 Day timer	n/a
YVS56CAAAS03	Softener	Meter Delay, Std. ¾"	125-2,125 Gal.
YVF56BXAAS03	Filter	7 Day Timer	n/a
YVS56UAADS03	Softener	SXT Electronic Meter ¾"	1-9,999 Gal
YVS56UXADS03	Softener	SXT Electronic Timer	--
YVF56UXADS03	Filter	SXT Electronic Timer	--

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 3 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 7 gpm).



2510 Series Valves

Flow Rates: (50 PSI Inlet)

- Continuous (15 psi drop): 19 gpm
- Peak (25 psi drop): 24 gpm
- Max Backwash (25 psi drop): 17 gpm
- Valve Material: Fiber-Reinforced Polymer
- 1" In/Out Connections
- 2½" – 8 NPSM Mounting Base
- 1600 Brine System (softener)

- Hard Water Bypass
- Typical Applications:
 - Softeners 6" – 16" Dia.
 - Filters 8" – 16" Dia.

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS25AXBAS07	Softener	12 Day Timer	n/a
YVS25CABAS07	Softener	Meter Delay, Std. ¾"	125-2,125 Gal.
YVS25DABAS07	Softener	Meter Delay, Ext Range ¾"	625-1,0625 Gal
YVF25AXBAS07	Filter	12 Day timer	n/a
YVS25MABDS07	Softener	SXT Electronic Meter ¾"	1-9,999 Gal.
YVS25LXBDS07	Softener	SXT Electronic Timer	n/a
YVF25LXBDS07	Filter	SXT Electronic Timer	n/a

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 7 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 15 gpm).



2750 Series Valves

Flow Rates: (50 PSI Inlet)

- Continuous (15 psi drop): 26 gpm
- Peak (25 psi drop): 33 gpm
- Max Backwash (25 psi drop): 25 gpm
- Valve Material: Lead-Free Brass
- 1" In/Out Connections
- 2½" – 8 NPSM Mounting Base
- 1600 Brine System (softener)

- Hard Water Bypass
- Typical Applications:
 - Softeners 10" – 24" Dia.
 - Filters 10" – 21" Dia.

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS27AXXAS07	Softener	12 Day Timer	n/a
YVS27CAXAS07	Softener	Meter Delay, Std. ¾"	310-5,270 Gal.
YVS27DBXAS07	Softener	Meter Delay, Ext Range 1"	1,550-26,350 Gal
YVF27AXXAS07	Filter	12 Day timer	n/a
YVS25MABDS07	Softener	SXT Electronic Meter ¾"	1-9,999 Gal.
YVS25LXBDS07	Softener	SXT Electronic Timer	n/a
YVF25LXBDS07	Filter	SXT Electronic Timer	n/a

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 7 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 25 gpm).



Media Filtration Components

Fleck Commercial Control Valves

2850 Series Valves

Flow Rates: (50 PSI Inlet)

- Continuous (15 psi drop): 51 gpm
- Peak (25 psi drop): 66 gpm
- Max Backwash (25 psi drop): 49 gpm

- Valve material: Lead-Free Brass
- 1½" In/Out Connections
- 4" – 8 UN Mounting Base

- 1700 Brine System (softener)
- Hard Water Bypass

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS28AXXAS25	Softener	12 Day Timer	n/a
YVS28CBXAS25	Softener	Meter Delay, Std. 1"	310-5,270 Gal.
YVS28DCXAS25	Softener	Meter Delay, Ext Range 1.5"	3,125-53,125 Gal
YVF28AXXAS25	Filter	12 Day timer	n/a
YVS28MBXDS25	Softener	SXT Electronic Meter 1"	1-9,999 Gal.
YVS28LXXDS25	Softener	SXT Electronic Timer	n/a
YVF28LXXDS25	Filter	SXT Electronic Timer	n/a



- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 25 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 45 gpm).

3150 Series Valves

Flow Rates: (50 PSI Inlet) – For Top Mount

- Continuous (15 psi drop): 95 gpm
- Peak (25 psi drop): 124 gpm
- Max Backwash (25 psi drop): 105 gpm

- Valve material: Lead-Free Brass
- 2" NPTF In/Out Connections
- 4" – 8 UN Mounting Base

- 1800 Brine System (softener)
- Hard Water Bypass

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS31AXXAS55	Softener	12 Day Timer	--
YVS31CBXAS55	Softener	Meter Delay, Std. 1"	1,250-21,250 Gal.
YVS31DCXAS55	Softener	Meter Delay, Ext Range 1.5"	6,250-106,250 Gal.
YVF31AXXAS55	Filter	12 Day Timer	--



- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 55 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 100 gpm).

3900 Series Valves

Flow Rates: (50 PSI Inlet) – For Top Mount

- Continuous (15 psi drop): 250 gpm
- Peak (25 psi drop): 325 gpm
- Max Backwash (25 psi drop): 100 gpm

- Valve Material: Lead-Free Brass
- 3" NPT In/Out Connections
- 6" – 8 Threaded or Flanged

- 1800 Brine System (softener)
- Hard Water Bypass

AMI Model No.	Filter or Softener	Metered/Timered	Meter Capacity Range
YVS39AXXAS99	Softener	12 Day Timer	--
YVS39CEXAS99	Softener	Meter Delay, Std. 3"	3,750-63,750 Gal.
YVS39DEXAS99	Softener	Meter Delay, Ext Range 3"	18,750-318,750 Gal.
YVS39GXXAD99	Softener	Twin Alternating- Lead	Needs Remote Meter
YVS39GXXAG99	Softener	Twin Alternating- Lag	Needs Remote Meter
YVF39AXXAS99	Filter	12 Day Timer	--
YVF39CEXAS99	Filter	Meter Delay, Std. 3"	3,750-63,750 Gal.
YVF39DEXAS99	Filter	Meter Delay, Ext Range 3"	18,750-318,750 Gal.



- Valves shown 110v/60Hz; other voltages available.
- Valves shown with 100 gpm backwash flow. Other backwash flows are available (max. 100 gpm).



Media Filtration Components

Fleck Twin Alternating & Hot Water Control Valves

9000 Series Brass Twin Alternating Softener Valves

Flow Rates: (50 PSI Inlet) 1" meter ¾" meter

- Continuous (15 psi drop): 21 gpm 18 gpm
- Peak (25 psi drop): 28 gpm 24 gpm
- Max Backwash (25 psi drop): 8.5 gpm 8.5 gpm

- Valve Material: Lead-Free Brass
- 2½" – 8 NPSM Mounting Base
- 1" In/Out Connections (¾" or 1 ¼" connections are also available)

- 1600 Brine System ¾"
- No Hard Water Bypass

AMI Model No.	Metered/Timered	Meter Capacity Range
YVS90EABAT03	Meter Immediate, Std. Range ¾"	125-1,125 Gal.
YVS90FBBAT03	Meter Immediate, Ext. Range 1"	1,550-26,350 Gal.
YVS90MABDT03	SXT Electronic Meter, ¾"	1-9,999 Gal.
YVS90MBBDT03	SXT Electronic Meter, 1"	1-9,999 Gal.

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 3 gpm backwash flow (indicated by last 2 digits). Other backwash flows are available (max. 7 gpm).



9100 Series Noryl Twin Alternating Softener Valves

Flow Rates: (50 PSI Inlet) 1" meter ¾" meter

- Continuous (15 psi drop): 21 gpm 18 gpm
- Peak (25 psi drop): 28 gpm 24 gpm
- Max Backwash (25 psi drop): 8.5 gpm 8.5 gpm

- Valve Material: Fiber-Reinforced Polymer
- 2½" – 8 NPSM Mounting Base
- 1" In/Out Connections (¾" or 1 ¼" connections are also available)

- 1600 Brine System ¾"
- No Hard Water Bypass

AMI Model No.	Metered/Timered	Meter Capacity Range
YVS91EABAT03	Meter Immediate, Std. Range ¾"	125-1,125 Gal.
YVS91FBBAT03	Meter Immediate, Ext. Range 1"	1,550-26,350 Gal.
YVS91MABDT03	SXT Electronic Meter, ¾"	1-9,999 Gal.
YVS91MBBDT03	SXT Electronic Meter, 1"	1-9,999 Gal.

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 3 gpm backwash flow. Other backwash flows are available (max. 7 gpm).



9500 Series Brass Twin Alternating Softener Valves

Flow Rates: (50 PSI Inlet)

- Continuous (15 psi drop): 38 gpm
- Peak (25 psi drop): 49 gpm
- Max Backwash (25 psi drop): 16 gpm

- Valve Material: Lead-Free Brass
- 2½" – 8 NPSM Mounting Base
- 1½" NPTF
- 1700 Brine System ½"
- No Hard Water Bypass
- Typical Application: 10"-24" Dia. Softener

AMI Model No.	Metered/Timered	Meter Capacity Range
YVS95ECXAT15	Meter Immediate, Std. Range 1.5"	625-10,625 Gal.
YVS95FCXAT15	Meter immediate, Ext. Range 1.5"	3,125-53,125 Gal.

- Valves shown 110v/60Hz (SE Valves are 24v/60Hz with 110v transformer); other voltages available.
- Valves shown with 15 gpm backwash flow. Other backwash flows are available (max. 16 gpm).



4650 Series Hot Water Residential Control Valve

- Operating Temp: 34°-110°F (1°-43°C)

Flow Rates (50 PSI Inlet):

- Continuous (15 psi drop): 20 gpm
- Peak (25 psi drop): 26 gpm
- Max Backwash (25 psi drop): 7 gpm

- Valve Material: Lead-Free Brass
- 2½" – 8 NPSM Mounting Base
- 1" NPT In/Out (¾" & 1¼" also available)
- 1600 Brine System ¾" (Softener)

- No Hard Water Bypass
- Typical Applications:
 - Softeners 6" – 12" Dia.
 - Filters 6" – 10" Dia.

AMI Model No.	Filter or Softener	Timer	Meter
YVS46BXBAS05	Softener	12 Day Timer	No Meter Option
YVF46BXBAS05	Filter	12 Day Timer	No Meter Option

- Valves shown 110v/60Hz; other voltages available.
- Valves shown with 5 gpm backwash flow. Other backwash flows are available (max. 7 gpm).



Series 1000 Remote Reset Meters for Multi-Tank Systems Using Multiple Valves

Model No.	Meter	Meter Cap. Range
YV1000-10S-*	1" Standard Range	0-5,000
YV1000-10E-*	1" Extended Range	0-25,000
YV1000-15S-*	1 ½" Standard Range	0-10,000
YV1000-15E-*	1 ½" Extended Range	0-50,000

Model No.	Meter	Meter Cap. Range
YV1000-20S-*	2" Standard Range	0-21,000
YV1000-20E-*	2" Extended Range	0-100,000
YV1000-30S-*	3" Standard Range	0-65,750
YV1000-30E-*	3" Extended Range	0-320,000

*Please add voltage code to part number when ordering. 24 = 24v 50/60Hz; 110 = 110v, 60Hz; 220 = 220v 50/60Hz Example: YV100-10S-110



Media Filtration Components

Poly Glass & Composite Mineral Tanks

- Pressure tanks are made of high performance composite material with FRP filament winding, with complete seamless molding technology
- All thread inlet made from 30% glass filled PP provides higher strength, temperature and pressure limits versus glass filled PE
- All pressure tanks are 100% corrosion resistant
- Color: Natural color is standard, specify other color if required
- Tank base included
- Mounting: Top Mount
- Maximum operating pressure: 150 psi (1 MPa)
- Maximum operating temperature:
 - Threaded Tanks: 120°F (50°C)
 - Flanged Tanks: 150°F (65°C)
- NSF and PED (CE) Certified



Model No.	Size (Dia"×H")	Capacity (cu.ft.)	Top Opening
YTP0618-25	6×18	0.24	2.5" Threaded
YTP0735-25	7×35	0.70	2.5" Threaded
YTP0744-25	7×44	0.90	2.5" Threaded
YTP0818-25	8×18	0.52	2.5" Threaded
YTP0835-25	8×35	0.88	2.5" Threaded
YTP0844-25	8×44	1.16	2.5" Threaded
YTP0940-25	9×40	1.27	2.5" Threaded
YTP0948-25	9×48	1.58	2.5" Threaded
YTP1035-25	10×35	1.36	2.5" Threaded
YTP1040-25	10×40	1.54	2.5" Threaded
YTP1054-25	10×54	2.19	2.5" Threaded
YTP1242-25	12×42	2.55	2.5" Threaded
YTP1242-45	12×42	2.55	4.5" Threaded
YTP1252-25	12×52	2.97	2.5" Threaded
YTP1252-4	12×52	2.97	4.0" Threaded
YTP1354-25	13×54	3.68	2.5" Threaded
YTP1354-4	13×54	3.68	4.0" Threaded
YTP1447-25	14×47	3.68	2.5" Threaded

Model No.	Size (Dia"×H")	Capacity (cu.ft.)	Top Opening	Bottom Opening
YTP1447-4	14×47	3.68	4" Threaded	n/a
YTP1447-45	14×47	3.68	4.5" Threaded	n/a
YTP1465-25	14×65	5.43	2.5" Threaded	n/a
YTP1465-4	14×65	5.43	4" Threaded	n/a
YTP1665-4	16×65	6.55	4" Threaded	n/a
YTP1865-4	18×65	8.30	4" Threaded	n/a
YTP2162-4	21×62	11.0	4" Threaded	n/a
YTP2472-4	24×72	15.9	4" Threaded	n/a
YTP2472-6F	24×72	15.9	6" Flanged	n/a
YTP3072-4	30×72	25.0	4" Threaded	n/a
YTP3072-6F	30×72	25.0	6" Flanged	n/a
YTP3672-4	36×72	35.3	4" Threaded	n/a
YTP3672-6F	36×72	35.3	6" Flanged	n/a
YTP3672-6F6F	36×72	35.3	6" Flanged	6" Flanged
YTP4272-6F	42×72	46.1	6" Flanged	n/a
YTP4272-6F6F	42×72	46.1	6" Flanged	6" Flanged
YTP4872-6F	48×72	61.9	6" Flanged	n/a
YTP4872-6F6F	48×72	61.9	6" Flanged	6" Flanged

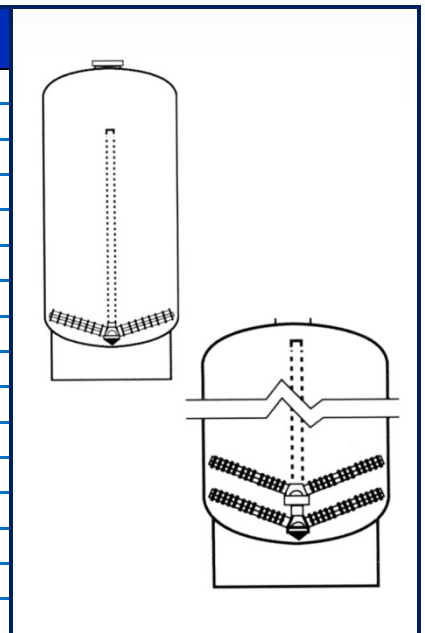


Media Filtration Components

Distributors, Diffusers, Hub and Lateral Assemblies

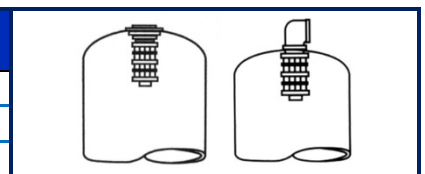
Top Mount, Riser Tube, Composite

Model No.	For Tank (Dia")	Top Opening (in)	System Connection	Flow Rate (gpm)	Laterals
YD5665	18-16	4-8	1.5" Slip	29	6
YD5666	18-21	4-8	1.5" Slip	29	6
YD5667	24	4-8	1.5" Slip	29	6
YD10848	30	4 or 6-8	1.5" Slip	104	6
YD10849	36	4 or 6-8	1.5" Slip	104	6
YD12201	24	6 Flanged	3" Slip	104	8
YD5672	30	6 Flanged	3" Slip	104	8
YD5673	36	6 Flanged	3" Slip	104	8
YD5674	42	6 Flanged	3" Slip	104	8
YD5675	48	6 Flanged	3" Slip	104	8
YD13492	63	6 Flanged	3" Slip	104	8
YD11776	30	6 Flanged	3" Slip	173	16
YD11778	36	6 Flanged	3" Slip	173	16
YD5676	42	6 Flanged	3" Slip	173	16
YD5677	48	6 Flanged	3" Slip	173	16
YD13569	63	6 Flanged	3" Slip	174	16



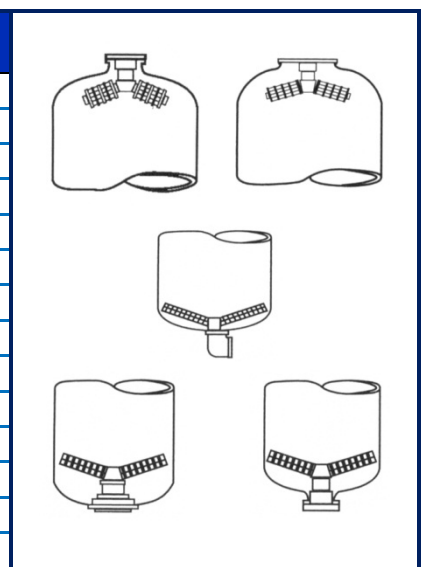
Diffusers

Model No.	For Tank (Dia")	Mouting	Top Opening	System Connection	Flow Rate (gpm)
YD5671	12-36	Top/Bottom	4"-8" Threaded	2" Slip	88
YD5679	18-48	Top	6" Flanged	3" FNPT	88
YD5700	21-36	Top	6"-8" Threaded	3" FNPT	88



Hub and Lateral


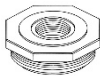
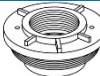
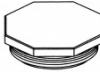
Model No.	For Tank (Dia")	Mounting	Top/Bottom Opening	Material	System Conn.	Flow Rate (gpm)
YD5680	21-63	Top	6" Flanged	Composite	3" Slip	200
YD10877	42-63	Top	16" Manway	Composite	3" Slip	200
YD5669	18-21	Bottom	4"-8" Threaded	Composite	2" Slip	100
YD5670	24	Bottom	4"-8" Threaded	Composite	2" Slip	100
YD11039	30	Bottom	4"-8" Threaded	Composite	2" Slip	100
YD11040	36	Bottom	4"-8" Threaded	Composite	2" Slip	100
YD11790	18	Bottom	6" Flanged	Composite	3" Slip	122
YD5696	21	Bottom	6"-8" Threaded	FRP	3" Slip	122
YD5678	21-24	Bottom	6" Flanged	Composite	3" Slip	122
YD5697	24	Bottom	6"-8" Threaded	FRP	3" Slip	122
YD5698	30	Bottom	6"-8" Threaded	FRP	3" Slip	122
YD5683	30	Bottom	6" Flanged	Composite	3" Slip	122
YD5699	36	Bottom	6"-8" Threaded	FRP	3" Slip	122
YD5684	36	Bottom	6" Flanged	Composite	3" Slip	122



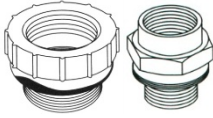
Media Filtration Components

Mineral Tank Adapters and Accessories

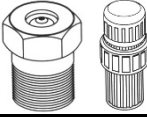
Threaded Tank Adapters - 150 psi max pressure

Model No.	Reduced To	Material	Max Temp.		Image
			°F	°C	
2.5-8" NPSM					
YTA27513	0.75" NPT	PVC	120	48	
YTA27515	1" NPT	PVC	120	48	
YTA27518	1.25" NPT	PVC	120	48	
YTA27514	1.5" NPT	PVC	120	48	
YTA27516	2.25-16"	PVC	120	48	
4-8" UN					
YTA48216	1" NPT	CPVC	150	65	
YTA482112	1.25" NPT	CPVC	150	65	
YTA48217	1.5" NPT	CPVC	150	65	
YTA48218	2" NPT	CPVC	150	65	
YTA482117	2-11.5" NPSM	CPVC	150	65	
YTA48212	2.5-8" NPSM	CPVC	150	65	
YTA48214	3-8" UN	CPVC	150	65	
YTA482111	2.375" BORED	CPVC	150	65	
6-8" UN					
YTA4125003	3" FPT	NORYL	150	65	
Threaded Closures					
YTA27511	2.5-8" NPSM	PVC	120	48	
YTA48211	4-8" UN	CPVC	150	65	
YTA26951	6-8" UN	CPVC	150	65	

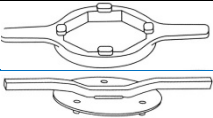
Brass Side Adapters - 150 psi max pressure

Model No.	Reduced To	Max Temp.		Image
		°F	°C	
YTA1661	0.75" NPT to 0.75" FNPT	150	65	
YTA2829	1.5" NPT to 1.5" FNPT	150	65	

Vacuum Breakers

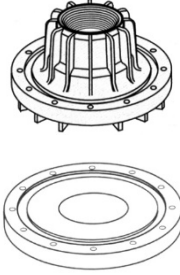
Model No.	Connection	Max Temp.		Max Pressure	Image
		°F	°C		
YTA10725	1" FNPT	150	65	150	
YTA10724	1.5" MNPT	120	48	125	

Wrenches

Model No.	Size	Image
YTA65682	4"	
YTA7229	6"	

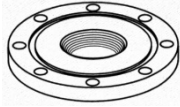
SNA Flanged Adapters

- Structural Bolt Pattern
- 150 PSI/150°F
- Kits come complete with standard o-ring and hardware
- Replacement Hardware: CPVC-YTA5310; Noryl-YTA4750

Model No.	Flange Size	Material	Adapt To	Drain	
YTA10659	6"	CPVC	1" NPT	NO	
YTA10660	6"	CPVC	1.5" NPT	NO	
YTA10661	6"	CPVC	2" NPT	NO	
YTA10662	6"	CPVC	3" NPT	NO	
YTA10663	6"	CPVC	4" NPT	NO	
YTA5292	6"	NORYL	3" NPT to 3" NPT	YES	
YTA5267	6"	NORYL	3" NPT to 3" NPT	NO	
YTA5295	6"	NORYL	3" NPT to 4"-8 UN	NO	
YFL10566	6"	NORYL	4"-8 UN	NO	

ANSI Flanged Adapters

- Standard Bolt Pattern
- Replacement Hardware: 4"- YTA525; 10"- YTA5754

Model No.	Flange Size	Material	Adapt To	Drain	
YTA5276	4"	CPVC	3" NPSM	NO	
YTA10673	4"	CPVC	2" NPT	NO	
YTA10674	4"	CPVC	3" NPT	NO	
YTA11929	10"	CPVC	4" NPT	NO	
YTA11930	10"	CPVC	6" NPT	NO	

Replacement O-Rings

Model No.	For Tank with Opening
YTA2694-120	2" Elbow
YTA2694-112	2.5" Thread
YTA2694-114	4" Thread
YTA2694-136	4" ANSI Flange
YTA2694-68	6" Thread
YTA2694-69	6" SNA Flange
YTA2694-132	10" ANSI Flange
YTA2694-131	16" MWY Flange



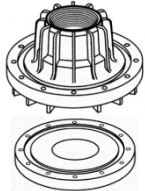
Media Filtration Components

Accessories and SS Jackets for Tanks

Flanged Closures

- SNA = Structural Type Bolt Patten, ANSI = Standard Bolt Pattern
- Kits come complete with standard o-ring and hardware


Model No.	Flange Size	Flange Type	Material
YTA5296	6"	SNA	NORYL
YTA10658	6"	SNA	CPVC
YTA5259	4"	ANSI	CPVC
YTA10472	4"	ANSI	ACRYLIC
YTA10139	10"	ANSI	CPVC



Manway Closures/Adapters

- For 16" Manway Openings
- Max. Temp 150°F
- Kits come complete with standard o-ring and hardware
- Replacement Hardware: YTA10107

Model No.	Reduced To	Material
YTA10108	2" NPT	Vinylester
YTA14644	2" NPT to 3" NPT	Vinylester
YTA10582	2" NPT	CPVC
YTA10583	3" NPT	CPVC
YTA10584	4" NPT	CPVC
YTA11294	3" NPT to 3" NPT	CPVC
YTA11295	4" NPT to 4" NPT	CPVC
YTA5294	2" NPT	Stainless

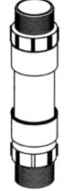


Connections and Accessories

- Kits come complete with o-ring and hardware if it is required.

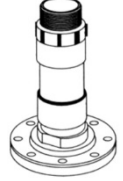
Flexible Assembly (NPT – NPT)

Model No.	Description
YTA5285	2" NPT X 2" NPT
YTA5286	3" NPT X 3" NPT




Flexible Assembly (Flanged)

Model No.	Description
YTA5239	4" Flanged to 3" NPT (CPVC) 150psi/150°F



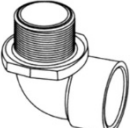
Connector

Model No.	Description
YTA5045	3" NPSM x 3" NPT (CPVC)



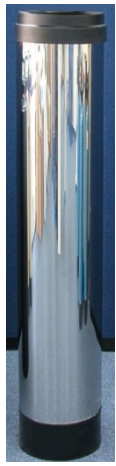
Elbow

Model No.	Description
YTA5201	2" NPSM to 2" Slip (CPVC) 150psi/150°F



Stainless Steel Jackets for Mineral Tanks

Model No.	For Tank Size (Dia." x Height")
YTP0940JKT	9x40
YTP0948JKT	9x48
YTP1035JKT	10x35
YTP1040JKT	10x40
YTP1054JKT	10x54
YTP1242JKT	12x42
YTP1252JKT	12x52
YTP1354JKT	13x54
YTP1447JKT	14x47
YTP1465JKT	14x65
YTP1665JKT	16x65



Caps for Stainless Steel Jackets

Sold separately – not included with jackets.

Model No.	For Tank Diameter
YTP09JCAP	9"
YTP10JCAP	10"
YTP12JCAP	12"
YTP13JCAP	13"
YTP14JCAP	14"
YTP16JCAP	16"



Media Filtration Components

Media Regeneration - Brine Tanks, Cabinets, Feeders

Brine Tank Assemblies

- Assembled with well, lid, brine valve, and grid plate.
- Standard color is black. Available in other colors upon request.

Model No.	Size (Dia." × Height")
YBT1833ASSEMBL	18"×33"
YBT1840ASSEMBL	18"×40"
YBT2441ASSEMBL	24"×41"
YBT2450ASSEMBL	24"×50"
YBT3048ASSEMBL	30"×48"
YBT3948ASSEMBL	39"×48"
YBT3960ASSEMBL	39"×60"
YBT4260ASSEMBL	42"×60"
YBT5060ASSEMBL	50"×60"
YBT6060ASSEMBL	60"×60"



Cabinet Assemblies

- Windsor Hi-Profile Series accommodates most control valves.
- Assembly includes blow molded cabinet, one piece injection molded cover and salt lid.
- Designed to accommodate mineral tanks without bases or retaining plate.
- Features large salt port opening for easy filling.
- Standard color is almond base with black lid. Other colors available upon request.

Model No.	For Tank Size (Dia." × Height")	Salt Capacity (lbs.)	Tank Size (Inches)		
			L	W	H
YCABIN09X18	9×18	100	22.5	13.5	27.25
YCABIN09X24	9×24	125	22.5	13.5	32.50
YCABIN10X35	10×35	225	22.5	13.5	44.00



Potassium Permanganate Feeder

- Individually packaged and tested and assembled with: non-pressurized tank, injection molded cover (fastened with screws), float valve, polypropylene grid pads, riser, and overflow.
- Tank composed of blow molded polyethylene with ultraviolet inhibitor.
- Standard color is Blue. Black and Almond available upon request.
- Capacity: 30lb Potassium Permanganate and a liquid capacity of 5 gal

Model No.	Delivery Capacity (oz. of KMNO ₄)	Poly Tube Elbow Size	Gallons of Solution	Float Setting	Riser Pipe Length
YBT7179-04	2	3/8"	¾	1 ½"	11"
YBT7179-03	4	3/8"	1	4"	12 ½"
YBT7179-08	6	3/8"	1 ½	5 5/8"	12 ½"



Potassium Permanganate

Model No.: X-KMNO₄*

Potassium Permanganate Granules, sold in cases of four 5-lb. containers per case only – 20lbs total.

*Hazardous

