

# Clean and soft water for the home.

Reliable water conditioning products for hard water problems.

RESIDENTIAL  
WATER SOFTENERS



A division of  
WaterGroup

**Hydrotech**   
Your clear choice in water treatment.

## The Hydrotech® residential water softeners include the following features:

- Durable filament wound mineral tanks consisting of a rotationally molded polyethylene liner and a high strength epoxy/fiberglass outer shell. Tanks are corrosion resistant and are Tested and Certified by WQA to NSF/ANSI Standard 44 for materials and structural integrity requirements.
- Brine tanks and cabinet enclosures are constructed of rugged seamless one piece molded polyethylene. They are lightweight yet strong enough not to crack or leak.
- High quality softening resin.
- Quartz gravel support beds.

Our products are backed by a solid guarantee including;

- Control valves are covered by a five year parts warranty
- Mineral tanks and brine tanks or cabinets enclosures are covered by a ten year warranty

Optional accessories are also available for many of these products.

### Hydrotech® 7000 Softener Series

The Hydrotech® 7000 Softener Series equipped with the 7000 control valve can achieve very high peak flow rates with only a small drop in pressure through the valve. The valve is built with the very latest in technology including all Fiber reinforced polymer construction, reliable electronics with optical positioning and quick connect clips which allow for easy installation and maintenance.

#### Features:

- Models from 1.0 to 4.0 cubic feet of resin
- Meter initiated regeneration
- Electronic control with LED display and user friendly programming
- Fully adjustable regeneration cycles with a second backwash available
- Variable reserve tracks homeowner's daily water usage, regenerating only when necessary saving salt and water
- Regeneration day override can be programmed
- High flow bypass included with 1" MNPT Connectors
- Heavy Duty mineral tank
- Polyethylene Brine tank includes air check and safety float
- Electrical: 24V/60 Hz (120V to 24V wall mount transformer included)



### Hydrotech® 6700<sub>XTR</sub> Softener Series

These softeners, assembled with the 6700 valve, are available with either conventional co-current regeneration or a more efficient counter-current regeneration. The 6700 uses advanced electronics to provide diagnostics, additional programming features and uses a variable reserve.

#### Features:

- Available in capacities with 0.5 to 2.5 cubic foot of resin.
- Co-current and counter-current regeneration versions available.
- The 6700 meter initiated valve regenerates only when needed. Additionally the softener's reserve capacity is calculated automatically and varies with the average daily usage.
- Adjustable regeneration time.
- Automatic regeneration override can be programmed.
- Regeneration cycles are fully adjustable.
- Advanced diagnostics for troubleshooting.
- UV stable, sealed valve cover protects against moisture, dust and dirt.
- Enhanced full text backlit display offers easy to read and understand in dark areas.
- Capacitor built into the XTR electronics maintains the time of day during a power failure.
- Programming functions include unit capacity, water hardness, capacity safety factor and volume override.
- Electrical: 24V / 60 Hz (120V to 24V wall mount transformer included).



## Hydrotech® 5600SE Softener Series

The Hydrotech® 5600SE Softeners are equipped with the 5600SE, an electronic control version of the 5600 control. The SE electronics of the valve provide both the owner and installer simple to operate, user friendly method of making adjustments to the control. An alternating display shows time of day and gallons of soft water remaining while the softener is in service.

### Features:

- Models from 0.75 to 3.0 cubic feet of resin
- Meter initiated regeneration
- Electronic control with LED display and user friendly programming
- Fully adjustable regeneration cycles
- Regeneration day override can be programmed
- Bypass included with ¾" MNPT Connections
- Heavy Duty mineral tank
- Polyethylene Brine tank includes air check and safety float
- Electrical: 24V/60 Hz (120V to 24V wall mount transformer included)



## Hydrotech® 5600 MI Softener Series

The Hydrotech® 5600 MI Softener Series comes with the industry standard Econominder control which regenerates only after a preset volume of water has passed through the system.

### Features:

- Models from 0.75 to 3.0 cubic feet of resin
- Meter initiated regeneration, down flow brining
- Gallon indicator counts down volume of soft water remaining
- Adjustable salt setting cam
- Bypass included with ¾" MNPT Connections
- Heavy Duty mineral tank
- Polyethylene Brine tank includes air check and safety float
- Electrical: 120V/60Hz



## Hydrotech® 9100SE TMI Softener Series

The Hydrotech® 9100SE Softener Series can provide an uninterrupted supply of soft water, twenty four hours a day. The systems use two mineral tanks. One is in standby while the other tank is in service until depleted. At this point, the tank in standby switches to service while the depleted tank regenerates. The control is constructed of all Fiber reinforced polymer construction with easy to connect piping and secondary tank adapter components.

### Features:

- Models from 1.0 to 2.0 cubic feet of resin per tank
- Meter initiated regeneration
- Electronic control with LED display and user friendly programming
- Fully adjustable regeneration cycles
- Regeneration day override can be programmed
- Bypass included with ¾" MNPT Connections
- Heavy Duty mineral tanks
- Polyethylene Brine tank includes air check and safety float
- Electrical: 24V/60 Hz (120V to 24V wall mount transformer included)



## Hydrotech® Specialty Products - Iron Softeners

How many times have you wished that you could remove the water hardness and iron content from the water supply in your home? But due to the price of two separate pieces of equipment, it was impossible.

Now it's affordable. Finally one unit, the Iron-Softener, automatically removes hardness minerals plus clear and red water iron from your water supply. Your costly appliances, bathroom fixtures and plumbing will be protected: laundry will be cleaner, softer and stain-free: bathing and grooming will be more enjoyable.

Take a close look at all the benefits of iron free, soft water. You'll find that it makes a refreshing difference to your life and will save you money now and in the years to come.

### Two models to choose from:

- Calendar Clock – just set the time and pull out the desired number of tabs for days to regenerate.
- Demand Regeneration – meter initiates regeneration as required. Just set number of gallons.

### Features:

- Fleck 5600 control valve
- Bypass valve for ease of installation and service included
- Heavy Duty mineral tank
- Polyethylene Brine tank includes air check and safety float
- Electrical 120V/60Hz



## Hydrotech® Specialty Products - Combination Organic Color Removal & Softener

This special application unit contains a media bed that has both anion and cation resins. The anion resin removes color caused by organic compounds found in some water supplies. Organic compounds known as tannins are decayed animal and vegetable matter which discolor the water and cause it to stain almost everything it comes into contact with. The cation resin allows it to also soften the water without making it necessary to add a second unit. The unit is regenerated like a standard water softener with saturated salt brine to release the trapped organic color compounds and hardness minerals.

### Features:

- Fleck 5600 valve with calendar clock initiation
- Bypass valve for ease of installation and service included
- Macroporous anion resin for color removal
- Cation resin for hardness removal
- Heavy Duty mineral tanks
- Polyethylene Brine tank includes air check and safety float
- Electrical 120V/60Hz



## Hydrotech® Specialty Products - Hot Water Softeners

Hydrotech® has a pre-assembled hot water softener. This softener uses the Fleck 2500 brass valve in a calendar clock initiated configuration setup.

### Features:

- FRP vinyl ester resin mineral tanks for hot water operation with a five year limited warranty
- Fully adjustable 5 cycle operation valve
- All softener internals and brine tank internals setup for hot water operation
- Maximum Operating Temperature = 65°C (150°F)
- The 1/2 cubic foot of resin unit is setup for low height installations
- Electrical: 120V/60Hz



## Hydrotech® Cabinet Softeners

Hydrotech® Cabinet Softeners, similar in construction to the Hydrotech® 5600 MI Series except in an attractive cabinet which combined the mineral tank and salt storage into one. It features the 5600 MI control which regenerates only after a preset volume of water has passed through the system.

### Features:

- Two models, either 0.75 or 1.0 CF of resin
- Meter initiated regeneration
- Gallon indicator counts down volume of soft water remaining
- Adjustable salt setting cam
- Bypass included with 3/4" MNPT Connections
- Heavy Duty mineral tank
- Polyethylene Brine tank includes air check and safety float
- Electrical: 120V/60Hz



## Optional Accessories



A Noryl® bypass valve is supplied with all products except Hot Water Softeners. Bypass valves are available in either fiber reinforced composite material or stainless steel. They are simple and easy to operate and are very dependable. They quickly attach to the valve body, making installation fast and easy.



Optional drip feeders and specially formulated chemical products can be added to our softeners. This allows the softener to easily remove small amounts of dissolved iron in the water and reduce media fouling.

Item Number	Model Number	Capacity at regeneration salt levels (kilograins as CaCO <sub>3</sub> )			Service Flow Rate <sup>(2)</sup> USGPM (LPM)	Maximum Flow To Drain USGPM (LPM)	Resin Volume per tank cu.ft. (litres)	Mineral Tank Size Width x Height inches (mm)	Brine Tank Size Width x Height inches (mm)	Salt Capacity Lbs. (kg)	Shipping Weight Lbs. (kg)
		@15lb/cf	@10lb/cf <sup>(1)</sup>	@6lb/cf							
<b>Specifications &amp; Performance - Hydrotech® 7000 Softener Series</b>											
7610	7000MI-30	30	27	20	10 (37.9)	2.0 (7.6)	1.00 (28)	9 x 48 (229 x 1219)	18 x 35 (457 x 889)	224 (102)	85 (39)
7611	7000MI-45	45	41	30	12 (45.4)	2.4 (9.1)	1.50 (43)	10 x 54 (254 x 1372)	21 x 36 (533 x 914)	308 (140)	125 (87)
7612	7000MI-60	60	55	40	13 (49.2)	3.5 (13.2)	2.00 (57)	12 x 52 (305 x 1321)	21 x 36 (533 x 914)	308 (140)	150 (68)
7613	7000MI-90	90	82	60	15 (56.8)	5.0 (18.9)	3.00 (85)	14 x 65 (356 x 1651)	21 x 36 (533 x 914)	308 (140)	235 (107)
7614	7000MI-120	120	108	80	20 (75.7)	7.0 (26.5)	4.00 (113)	16 x 65 (406 x 1651)	21 x 36 (533 x 914)	308 (140)	330 (150)

<b>Specifications &amp; Performance - Hydrotech® 6700 Softener Series<sup>(3)</sup></b>											
7640	6700DF-20	22	20	15	8 (30.3)	1.2 (4.5)	0.75 (21)	8 x 47 (203 x 1194)	18 x 35 (457 x 889)	224 (102)	90 (41)
7641	6700DF-30	30	27	20	10 (37.9)	1.5 (5.7)	1.00 (28)	9 x 48 (229 x 1219)	18 x 35 (457 x 889)	224 (102)	105 (48)
7642	6700DF-45	45	41	30	11 (41.6)	2.0 (7.6)	1.50 (43)	10 x 54 (254 x 1372)	21 x 36 (533 x 914)	308 (140)	140 (64)
7643	6700DF-60	60	55	40	15 (56.8)	3.0 (11.4)	2.00 (57)	12 x 52 (305 x 1321)	21 x 36 (533 x 914)	308 (140)	185 (84)
7644	6700DF-90	90	82	60	15 (56.8)	4 (15.1)	3.00 (85)	14 x 65 (356 x 1651)	21 x 36 (533 x 914)	308 (140)	255 (116)
7645	6700UF-20	22	20	15	8 (30.3)	1.2 (4.5)	0.75 (21)	8 x 47 (203 x 1194)	18 x 35 (457 x 889)	224 (102)	90 (41)
7646	6700UF-30	30	27	20	10 (37.9)	1.5 (5.7)	1.00 (28)	9 x 48 (229 x 1219)	18 x 35 (457 x 889)	224 (102)	105 (48)
7647	6700UF-45	45	41	30	11 (41.6)	2.0 (7.6)	1.50 (43)	10 x 54 (254 x 1372)	21 x 36 (533 x 914)	308 (140)	140 (64)
7648	6700UF-60	60	55	40	15 (56.8)	3.0 (11.4)	2.00 (57)	12 x 52 (305 x 1321)	21 x 36 (533 x 914)	308 (140)	185 (84)
7649	6700UF-90	90	82	60	15 (56.8)	4 (15.1)	3.00 (85)	14 x 65 (356 x 1651)	21 x 36 (533 x 914)	308 (140)	255 (116)

<b>Specifications &amp; Performance - Hydrotech® 5600SE Softener Series</b>											
7605	5600SEM-20	22	20	15	8 (30.3)	1.2 (4.5)	0.75 (21)	8 x 47 (203 x 1194)	18 x 35 (457 x 889)	224 (102)	90 (41)
7606	5600SEM-30	30	27	20	10 (37.9)	1.5 (5.7)	1.00 (28)	9 x 48 (229 x 1219)	18 x 35 (457 x 889)	224 (102)	105 (48)
7607	5600SEM-45	45	41	30	11 (41.6)	2.0 (7.6)	1.50 (43)	10 x 54 (254 x 1372)	21 x 36 (533 x 914)	308 (140)	140 (64)
7608	5600SEM-60	60	55	40	15 (56.8)	3.0 (11.4)	2.00 (57)	12 x 52 (305 x 1321)	21 x 36 (533 x 914)	308 (140)	185 (84)
7609	5600SEM-90	90	82	60	15 (56.8)	4.0 (15.1)	3.00 (85)	14 x 65 (356 x 1651)	21 x 36 (533 x 914)	308 (140)	255 (116)

<b>Specifications &amp; Performance - Hydrotech® 5600 MI Softener Series</b>											
7600	5600MI-20	22	20	15	8 (30.3)	1.2 (4.5)	0.75 (21)	8 x 47 (203 x 1194)	18 x 35 (457 x 889)	224 (102)	90 (41)
7601	5600MI-30	30	27	20	10 (37.9)	1.5 (5.7)	1.00 (28)	9 x 48 (229 x 1219)	18 x 35 (457 x 889)	224 (102)	105 (48)
7602	5600MI-45	45	41	30	11 (41.6)	2.0 (7.6)	1.50 (43)	10 x 54 (254 x 1372)	21 x 36 (533 x 914)	308 (140)	140 (64)
7603	5600MI-60	60	55	40	15 (56.8)	3.0 (11.4)	2.00 (57)	12 x 52 (305 x 1321)	21 x 36 (533 x 914)	308 (140)	185 (84)
7604	5600MI-90	90	82	60	15 (56.8)	4.0 (15.1)	3.00 (85)	14 x 65 (356 x 1651)	21 x 36 (533 x 914)	308 (140)	255 (116)

<b>Specifications &amp; Performance - Hydrotech® 9100SE TMI Softener Series</b>											
7627	9100SE-30 TMI	30	27	20	10 (37.9)	1.5 (5.7)	1.00 (28)	9 x 48 (229 x 1219)	21 x 36 (533 x 914)	308 (140)	185 (84)
7628	9100SE-45 TMI	45	41	30	11 (41.6)	2.0 (7.6)	1.50 (43)	10 x 54 (254 x 1372)	21 x 36 (533 x 914)	308 (140)	248 (113)
7629	9100SE-60 TMI	60	55	40	15 (56.8)	3.0 (11.4)	2.00 (57)	12 x 52 (305 x 1321)	21 x 36 (533 x 914)	308 (140)	340 (154)

<b>Specifications &amp; Performance - Hydrotech® 5600 MI Cabinet Softener Models</b>											
Item Number	Model Number	Capacity (kilograins) at Various Salt Dosages			Service Flow Rate <sup>(2)</sup> USGPM (LPM)	Maximum Flow to Drain USGPM (LPM)	Resin Volume per tank cu.ft. (litres)	Mineral Tank Size Width x Height inches (mm)	Cabinet Size Width x Height inches (mm)	Salt Capacity Lbs. (kg)	Shipping Weight Lbs. (kg)
		@15lb/cf	@10lb/cf <sup>(1)</sup>	@6lb/cf							
7378	WTC5620	20	18	13	6 (22.7)	1.2 (4.5)	0.67 (19)	8 x 35 (203 x 889)	21 x 13 x 44 (533 x 330 x 1118)	359 (163)	73 (33)
7379	WTC5630	30	27	20	10 (37.9)	2.0 (7.6)	1.00 (28)	10 x 35 (254 x 889)	21 x 13 x 44 (533 x 330 x 1118)	359 (163)	90 (41)

<b>Specifications &amp; Performance - Hydrotech® Iron Softener Models</b>											
Item Number	Model Number	Control Valve	Capacity (kilograins) @15lb/cf	Service Flow Rate <sup>(2)</sup> USGPM (LPM)	Maximum Flow to Drain USGPM (LPM)	Resin Volume per tank cu.ft. (litres)	Mineral Tank Size Width x Height inches (mm)	Brine Tank Size Width x Height inches (mm)	Salt Capacity Lbs. (kg)	Shipping Weight Lbs. (kg)	
01661	IS30-CC	Calendar Clock	32	8 (30.3)	2.0 (7.6)	1.00 (28)	10 x 47 (254 x 1194)	22 x 38 (559 x 965)	420 (191)	100 (45)	
01662	IS30-MI	Meter	32	8 (30.3)	2.0 (7.6)	1.00 (28)	10 x 47 (254 x 1194)	22 x 38 (559 x 965)	420 (191)	100 (45)	
01663	IS45-MI	Meter	40	8 (30.3)	2.0 (7.6)	1.50 (43)	10 x 54 (254 x 1372)	22 x 38 (559 x 965)	420 (191)	114 (52)	
01664	IS45-CC	Calendar Clock	40	8 (30.3)	2.0 (7.6)	1.50 (43)	10 x 54 (254 x 1372)	22 x 38 (559 x 965)	420 (191)	114 (52)	
01669	IS90-MI	Meter	90	8 (30.3)	4.0 (15.1)	3.00 (85)	14 x 65 (356 x 1651)	22 x 38 (559 x 965)	420 (191)	114 (52)	

• Hydrotech® Iron Softener models not recommended for iron bacteria or organically bound iron. Unit can be applied up to a maximum .75 mg/l manganese providing regular use of resin cleaner. • Regular use of resin cleaner is essential to the proper functioning of the iron softener system.

<b>Specifications &amp; Performance - Hydrotech® Combination Organic Color Removal &amp; Softener</b>											
Item Number	Model Number	Capacity (kilograins) @10lb/cf <sup>(1)</sup>	Color Removal Capacity (ppm-gallons) @10lb/cf <sup>(1)</sup>	Service Flow Rate <sup>(2)</sup> USGPM (LPM)	Maximum Flow to Drain USGPM (LPM)	Resin Volume per tank cu.ft. (litres)	Anion Resin Volume cu.ft. (litres)	Mineral Tank Size Width x Height inches (mm)	Brine Tank Size Width x Height inches (mm)	Salt Capacity Lbs. (kg)	Shipping Weight Lbs. (kg)
7377	WTCA45	13	2,000	8 (30.3)	2.4 (9.1)	0.50 (14)	1.00 (28)	10 x 54 (254 x 1372)	22 x 38 (559 x 965)	420 (191)	100 (45)

<b>Specifications &amp; Performance - Hydrotech® Hot Water Softener</b>											
Item Number	Model Number	Capacity at regeneration salt levels (kilograins as CaCO <sub>3</sub> )			Service Flow Rate <sup>(2)</sup> USGPM (LPM)	Maximum Flow to Drain USGPM (LPM)	Resin Volume per tank cu.ft. (litres)	Mineral Tank Size Width x Height inches (mm)	Brine Tank Size Width x Height inches (mm)	Salt Capacity Lbs. (kg)	Shipping Weight Lbs. (kg)
		@15lb/cf	@10lb/cf <sup>(1)</sup>	@6lb/cf							
7376	HW2500CC-1019-50	15	12	8	10 (37.9)	1.2 (4.5)	0.50 (14)	10 x 19 (254 x 483)	10 x 16 (254 x 406)	48 (22)	68 (31)

**Notes:**  
**Operating Temperature Range:** 34° to 110°F (1° to 43°C) with the exception of the Hot Water Softener = 34° to 150°F (1° to 65°C)  
**Operating Pressure Range:** 20 to 120 psi (137 to 827 kPa)  
**Electrical:** Standard: 120V/60Hz  
 7000, 5600SE and 9100SE Water Softeners: 24V/60Hz with a supplied 120V/60Hz Wall Mount CSA Approved Transformer  
**Caution:** These products are not intended to be used to treat water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.  
 • The manufacturer reserves the right to make product improvements which deviate from the specifications and descriptions stated herein without obligation to change previously manufactured products or to note the change.  
 • Peak flow rates are intended for intermittent use only and are for residential application only.  
 • 1 kilograin is equal to 1000 grains.  
**Notes:** <sup>(1)</sup> 10lb/cu.ft. salt dosage is the standard factory setting. <sup>(2)</sup> The Service Flow Rate given will not exceed a pressure drop of 15psi. <sup>(3)</sup> UF - Upflow; DF - Downflow