

Clean and clear water for the home.

Reliable water filtration products for problem water.

RESIDENTIAL
WATER FILTERS



Hydrotech 
Your clear choice in water treatment.

All of the Hydrotech® residential water filters 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.
- Three models to choose from to fit the application
- 5600SE electronic control with LED display and user friendly programming
- Meter initiated regeneration, with day override
- Fully adjustable regeneration cycles
- Bypass included with 3/4" MNPT Connections
- Electrical: 24V/60 Hz (120V to 24V wall mount transformer included)

Our products are backed by a solid guarantee including:

- Control valves are covered by a 5 year parts warranty
- Mineral tanks are covered by a 10 year warranty

Hydrotech® 5600SE Iron & Sulfur Filters

Iron, manganese and sulfur are oxidized and removed from your water, protecting your plumbing and eliminating ugly staining and unpleasant tastes and odors.

How the System Works

The system consists of three major components: a backwashable filter containing oxygen charged manganese greensand, a dependable chemical feeder with shutoff float which delivers an accurately measured volume of potassium permanganate solution for each regeneration and a meter initiated control valve which governs the operation of the system.

As water passes through the filter bed, it comes in contact with the oxygen charged media. This causes iron, manganese and sulfur to oxidize. The undesirable compounds are then trapped in the filter bed. Eventually the oxygen in the filter becomes depleted and regeneration is necessary.

Regeneration takes place during the night while you sleep. First, backwashing cleans the filter bed, then concentrated potassium permanganate solution is passed through it, recharging the bed with oxygen. A rapid rinse removes any remaining potassium and a volume of water is returned to the feeder to dissolve enough potassium permanganate for the next regeneration. All functions are performed automatically.

Meter Initiated control with day override

The 5600SE valve comes with an electronic control that displays volume of filtered water remaining and regenerates after a preset volume has passed through the system. This volume is set according to the raw water analysis and the filter capacity. The control can also be set to regenerate automatically after a preset number of days with the day override feature.



Hydrotech® 5600SE Chemical Free Iron Filters

Once installed, the chemical free iron filter requires little or no attention. It automatically removes soluble iron, sometimes called ferrous iron or “clear water”, precipitated iron, sometimes called ferric iron or “red water.” It is safe and very economical because it requires none of the expensive or messy chemicals conventional iron filters use.

The chem-free iron filter features two major components, an air injector and a backwashable filter containing Birm® media. In some applications a contact tank or an additional pressure tank may be required for the chem-free to function.

The air injector adds a controlled amount of air to the water supply just before it enters the pressure tank. The air starts the iron removal process as the water sits in the tank.

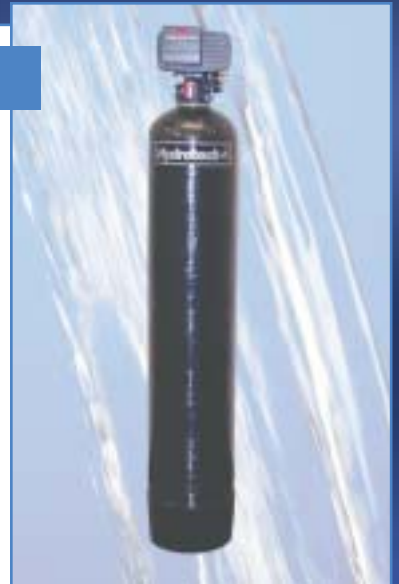
The iron changes into a colloidal state and as such it is trapped throughout the filter bed.

The chem-free filter media remains unchanged at the end of the oxidation process and consequently requires no chemical regeneration.

Periodic backwashing of the filter bed flushes the precipitated iron to the drain and readies the filter for use again. The duration and frequency of backwashing varies from 10 to 12 minutes every 4 to 12 days, depending on iron concentration and water usage.

Special features

- Minimal operating costs, requires no chemicals for regeneration
- Removes iron concentrations up to 35 mg/L
- Only occasional backwashing required conserving water as compared with conventional iron filters



Mazzei® Injector Assembly

Hydrotech® 5600SE Multi-Media Turbidity Filters

Suspended particulate matter such as clay and silt give water a cloudy appearance. Our turbidity filters use multiple medias to filter particulate matter down to 20 microns in size. The result is clean, clear water. The multi-media filter bed facilitates more thorough backwashing and prevents channeling. Periodic backwashing by the control valve cleans the bed.

Hydrotech® 5600SE Activated Carbon Filters

Unpleasant tastes and odors caused by chlorine or organic substances, such as decayed vegetation and run-off, are adsorbed by top quality activated carbon. The filter will automatically backwash based on volume through the filter using a meter initiated controlled valve. This frees the bed of accumulated impurities and readies it for operation again.



Specifications & Performance - Hydrotech® 5600SE Iron & Sulfur Filters

Item Number	Model Number	Media cu. ft. (litres)	Pipe Size inches (mm)	Iron removal Capacity (ppm)	Service Flow Rate	Peak Flow Rate	Backwash Flow Rate	Mineral Tank size inches (mm)	KMnO ₄ Regeneration (oz)	Shipping Weight Lbs. (kg)
					USGPM (LPM)					
7621	5600SEM-847IF-75	0.75 (21)	3/4 (19)	4500	3.0 (7.6)	4.0 (15)	3.5 (13)	8 x 47 (203 x 1194)	2	120 (55)
7622	5600SEM-948IF-100	1.00 (28)	3/4 (19)	6000	3.0 (11)	5.0 (19)	4.0 (15)	9 x 48 (229 x 1219)	4	135 (61)
7623	5600SEM-1054IF-150	1.50 (42)	3/4 (19)	9000	5.0 (19)	8.0 (30)	5.0 (19)	10 x 54 (254 x 1372)	6	185 (84)

Specifications & Performance - Hydrotech® 5600SE Activated Carbon Filters

Item Number	Model Number	Media cu. ft. (litres)	Pipe Size inches (mm)	Service Flow Rate	Peak Flow Rate	Backwash Flow Rate	Mineral Tank size inches (mm)	Shipping Weight Lbs. (kg)
				USGPM (LPM)				
7615	5600SEM-847AC-75	0.75 (21)	3/4 (19)	4.0 (15)	5.0 (19)	3.5 (13)	8 x 47 (203 x 1194)	45 (20)
7616	5600SEM-948AC-100	1.00 (28)	3/4 (19)	4.0 (15)	6.0 (23)	4.0 (15)	9 x 48 (229 x 1219)	60 (27)
7617	5600SEM-1054AC-150	1.50 (42)	3/4 (19)	5.0 (19)	7.0 (27)	5.0 (19)	10 x 54 (254 x 1372)	78 (35)

Specifications & Performance - Hydrotech® 5600SE Multi-Media Turbidity Filters

Item Number	Model Number	Media cu. ft. (litres)	Pipe Size inches (mm)	Service Flow Rate	Peak Flow Rate	Backwash Flow Rate	Mineral Tank size inches (mm)	Shipping Weight Lbs. (kg)
				USGPM (LPM)				
7618	5600SEM-847MM-75	0.75 (21)	3/4 (19)	4.0 (15)	5.0 (19)	4.0 (15)	8 x 47 (203 x 1194)	95 (43)
7619	5600SEM-948MM-100	1.00 (28)	3/4 (19)	5.0 (19)	7.0 (38)	5.0 (19)	9 x 48 (229 x 1219)	145 (66)
7620	5600SEM-1054MM-150	1.50 (42)	3/4 (19)	7.0 (38)	10.0 (38)	7.0 (38)	10 x 54 (254 x 1372)	213 (97)

Specifications & Performance - Hydrotech® 5600SE Chemical Free Iron Filters

Item Number	Model Number	Media cu. ft. (litres)	Iron removal Capacity (ppm)	Pipe Size inches (mm)	Service Flow Rate	Peak Flow Rate	Backwash Flow Rate	Mineral Tank size inches (mm)	Shipping Weight Lbs. (kg)
					USGPM (LPM)				
7624	5600SEM-847CFB-75	0.75 (21)	22500	3/4 (19)	2.0 (7.6)	4.0 (15)	3.5 (13)	8 x 47 (203 x 1194)	70 (32)
7625	5600SEM-948CFB-100	1.00 (28)	30000	3/4 (19)	2.5 (9.5)	4.5 (17)	4.0 (15)	9 x 48 (229 x 1219)	90 (41)
7626	5600SEM-1054CFB-150	1.50 (42)	45000	3/4 (19)	3.0 (11)	5.5 (21)	5.0 (19)	10 x 54 (254 x 1372)	118 (54)

Notes:

Operating Temperature Range: 34° to 110°F (1° to 43°C)

Operating Pressure Range: 20 to 120 psi (137 to 827 kPa)

Electrical: 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.

1. 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.
2. KMnO₄ refers to Potassium Permanganate.
3. Peak flow rates are intended for intermittent use only and are for residential application only.

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