A woman with dark hair is lying in a bathtub, her eyes closed and a slight smile on her face. She is surrounded by white bubbles. The background is a light blue surface covered in numerous water droplets of various sizes, creating a fresh and clean atmosphere.

Assembled Engineered Systems

*Softeners,
Whole House Filters,
Specialty Systems*

Assembled Engineered Systems

Hydrotech offers the widest variety of pre-engineered systems ensuring optimal performance for every type and size as well as appearance to suit your taste.

Every system is available with the following choices where appropriate:

Control Valve - 89 Upflow, 89 Downflow, 785 Upflow, 785 Down Flow, 565, 765

Brine Tank - Round (BTR) or Square (BTS)

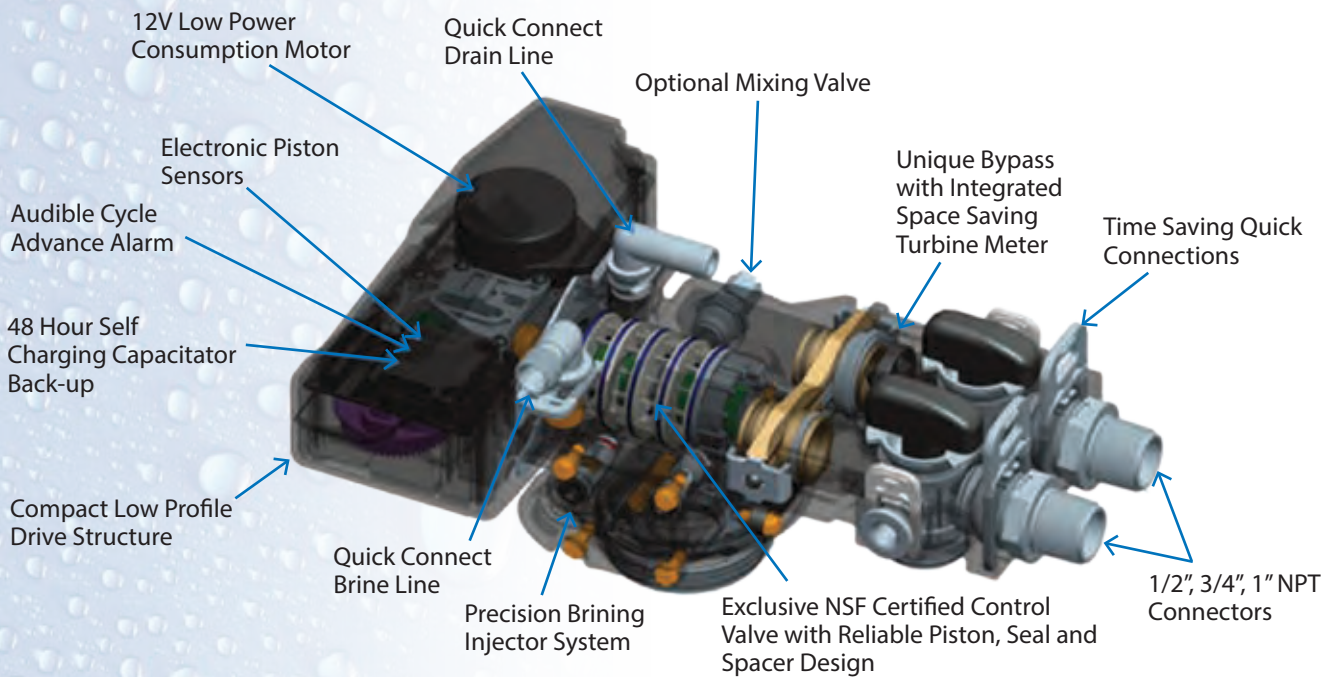
Mineral Tank / Jackets - High gloss non-jacketed, Chrome Jacket with Black Caps, Color Jacket with Black Caps. *Jackets available on .075 to 1.5 cu ft units only. EZ Zip Cloth Jackets (Black) also available up to 14 x 65 as an accessory.

Colors - Black, Blue or Vanilla



Assembled Engineered Systems

Standard Features



Quick Connect Features for Ultimate Convenience

The quick connect bypass comes installed on every unit with both 90° 3/4" elbows and straight 1" NPT connectors. Optional quick connect adaptors include 3/4" straight shark bite and 3/4" straight NPT connectors.



All units include pre-installed bypass



Standard QC Fittings



Optional Fittings



New Quick Connect Stainless Steel Flexi-Connector Kits

Two 18" flexible water connectors with 3/4" or 1" John Guest® Quick Connect fittings and proprietary bypass valve connection for all Canature WaterGroup manufactured water softeners and whole-house filters. For Canature WaterGroup Control Valve Series 765, 565, 785 use 3/4" Canature WaterGroup bypass. For Canature WaterGroup 89 Control Valve Series use 1" Canature WaterGroup Bypass. Instructions included.

Assembled Engineered Systems

Standard Features

Space Saving Improved Design

Eliminate 4" and unnecessary connections for neat, quick installations. Bypass with integrated meter avoids 'meter jamming' which is caused from weight of pipes creating torque on turbines causing them to bind and stop metering.

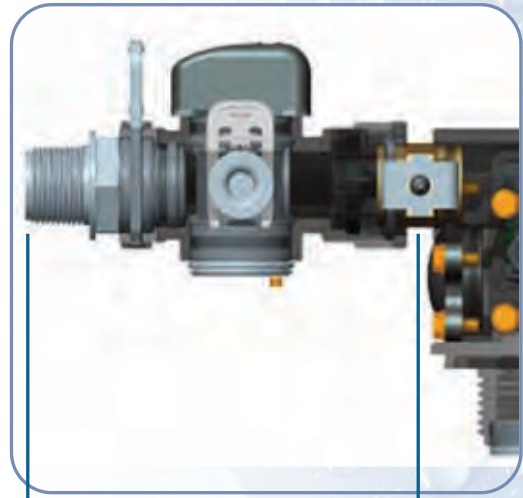


Integrated Meter-in-Bypass Design



QC Power Cable

- ➔ Simplifies installation or removal of the valve from the tank
- ➔ No tangled or wrapped up power cords!
- ➔ Closed bottom brine well reduced intrusion of unwanted impurities
- ➔ Injection molded brine grids reduce bridging
- ➔ Solvent free distributor tube with spun weld collector avoids glue and solvents
- ➔ Injection molded reliable brine valve



5 inches

1 Connection. Comes Pre-Installed

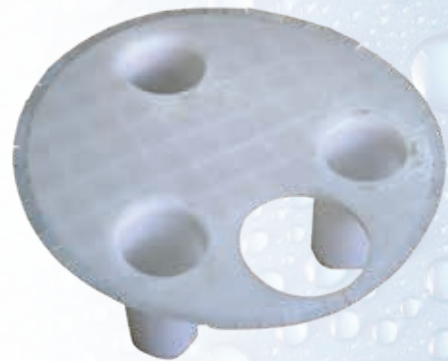


Competitive Valve

9 inches

3 Connections

High Quality Brine Components



Assembled Engineered Systems

Optional Professional Custom Labels



All systems come with high quality Hydrotech branded labels. For those Dealers who want customized labels, the same high gloss 3D style labels are available for purchase based on minimum order quantities.

Valves:



Brine Tanks:



Cabinets:



Program Details:

- Minimum Order 300 Unit Sets.
- Sets include one valve label and one brine tank label. Cabinet models include one valve label and two cabinet labels.
- 45 day lead-time from date of final artwork approval.

To Order:

Contact Your Hydrotech Sales Representative or Customer Service Team

Assembled Engineered Systems

89 Series Water Softener



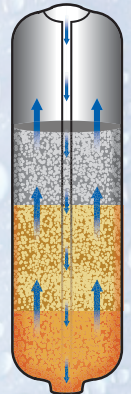
7 Year Warranty Control Valve



Lifetime Warranty Pressure tank

Features:

- True 1" porting provides high flow rates for larger homes
- Upflow Regeneration with Optimal Precision Brining provides high-efficiency performance and lowest possible salt usage.
- Adjustable backwash frequency saves up to 2,000 gallons of water per year
- Large 4 line Touch Pad LCD display. No confusing symbols or codes
- Automatic reserve – adjusts based on actual usage
- Automatic System Flush refreshes system during periods of non use preventing bacteria growth
- Soft Water Recharge performs quick regeneration ensuring you never run out of soft water
- Soft Water Brine Tank Refill conserves capacity and keeps brine tank clean
- Time saving quick connect features on bypass, drain line and powercord
- Upflow - meter delayed; Downflow - meter delayed, days of week, calendar clock, meter immediate, meter override
- Self charging capacitor keeps date / time of day for 48 hours while programming remains in permanent memory
- Space saving precision turbine meter
- Comes with 1" straight NPT
- Seven Year Control Valve Warranty, Lifetime Warranty on Tanks



Upflow Regeneration drives the hardness minerals up through the already depleted resin and out to drain - saving both salt and the unused portion of the resin for future use.

Options:

- Traditional twin tank or cabinet style
- Round or square brine tanks in black, blue or vanilla
- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla



IAPMO R & T Certified against NSF/ANSI 44 and CSA B483.1

Part #	Model	System Capacity Grains			Flow Rate		Regeneration Water Usage (Gallons)		Mineral Tank Size	Resin Cu. Ft.	Brine Tank / Cabinet Size Inches	Salt Capacity (Lbs)	Ship Weight (Lbs)
		@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft	Service USGPM	Backwash USGPM	Clean Water (Factory Setting)	Problem Water					
15100000	HT89UF-75	22,500	18,750	11,250	8.0	1.5	34.0	49.6	8 x 44	0.75	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	93
15100018	HT89UF-100	30,000	25,000	15,000	10.0	2.0	43.4	64.3	9 x 48	1.00	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	110
15100036	HT89UF-150	45,000	37,500	22,500	12.0	2.4	62.7	90.3	10 x 54	1.50	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	141
15100054	HT89UF-200	60,000	50,000	30,000	15.0	3.5	87.1	124.6	12 x 52	2.00	20.3 x 37.4	385	158
15100057	HT89UF-250	75,000	62,500	37,500	15.0	4.0	108.9	155.8	13 X 54	2.50	20.3 x 37.4	385	198
15100060	HT89UF-300	90,000	75,000	45,000	15.0	5.0	139.2	196.2	14 x 65	3.00	23.0 x 40.5	550	244
15100061	HT89UF-75C	22,500	18,750	11,250	8.0	2.0	40.5	56.1	9 x 35	0.75	13.8 x 23.6 x 43.3	225	93
15100062	HT89UF-100C	30,000	25,000	15,000	10.0	2.4	48.6	69.5	10 x 35	1.00	13.8 x 23.6 x 43.3	225	110

Part #	Model	System Capacity Grains			Flow Rate		Regeneration Water Usage (Gallons)		Mineral Tank Size	Resin Cu. Ft.	Brine Tank / Cabinet Size Inches	Salt Capacity (Lbs)	Ship Weight (Lbs)
		@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft	Service USGPM	Backwash USGPM	Clean Water (Factory Setting)	Problem Water					
15100100	HT89DF-75	22,500	18,750	11,250	8.0	1.5	34.0	49.6	8 x 44	0.75	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	93
15100118	HT89DF-100	30,000	25,000	15,000	10.0	2.0	43.4	64.3	9 x 48	1.00	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	110
15100136	HT89DF-150	45,000	37,500	22,500	12.0	2.4	62.7	90.3	10 x 54	1.50	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	141
15100154	HT89DF-200	60,000	50,000	30,000	15.0	3.5	87.1	124.6	12 x 52	2.00	20.3 x 37.4	385	158
15100157	HT89DF-250	75,000	62,500	37,500	15.0	4.0	108.9	155.8	13 X 54	2.50	20.3 x 37.4	385	198
15100160	HT89DF-300	90,000	75,000	45,000	15.0	5.0	139.2	196.2	14 x 65	3.00	23.0 x 40.5	550	244
15100161	HT89DF-75C	22,500	18,750	11,250	8.0	2.0	40.5	56.1	9 x 35	0.75	13.8 x 23.6 x 43.3	225	93
15100162	HT89DF-100C	30,000	25,000	15,000	10.0	2.4	48.6	69.5	10 x 35	1.00	13.8 x 23.6 x 43.3	225	110



Designed, Engineered & Assembled in the U.S.A.

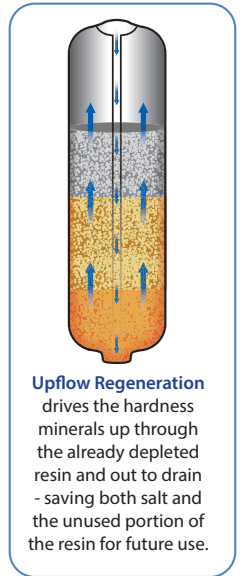
Assembled Engineered Systems

785HE Series Water Softener



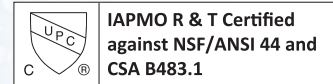
Features:

- ➔ NSF Certified electronic control valves with proven piston, seal & spacer technology and rotating 'no touch' diagnostic backlit 16 character LCD display
- ➔ Upflow Regeneration with Optimal Precision Brining provides high-efficiency performance and lowest possible salt usage.
- ➔ Adjustable backwash frequency saves up to 2,000 gallons of water per year
- ➔ Upflow - meter delayed; Downflow - meter delayed; vacation mode
- ➔ Self charging capacitor keeps date / time of day for 48 hours while programming remains in permanent memory
- ➔ Soft Water Recharge performs quick regeneration ensuring you never run out of soft water
- ➔ NSF Certified high-gloss pressure tank
- ➔ IAPMO certified 8% cross-linked cation resin
- ➔ Heavy-duty brine tank / cabinet constructed with NSF Certified high-density polyethylene. Twin tank models include plastic salt grid.
- ➔ Soft water brine tank refill
- ➔ Brine safety valve for added overflow protection
- ➔ Space saving bypass with integrated turbine meter
- ➔ Time saving quick connect fittings on bypass, drain line, brine line and power cord
- ➔ Seven Year Control Valve Warranty, Lifetime Warranty on Tanks



Options:

- ➔ Traditional twin tank or cabinet style
- ➔ Round or square brine tanks in black, blue or vanilla
- ➔ Pressure tanks in black, blue or natural
- ➔ Tank jackets with black caps in chrome, grey, blue or vanilla



7 Year Warranty Control Valve

Lifetime Warranty Pressure tank

Part #	Model	System Capacity Grains			Flow Rate		Regeneration Water Usage (Gallons)		Mineral Tank Size	Resin Cu. Ft.	Brine Tank / Cabinet Size Inches	Salt Capacity (Lbs)	Ship Weight (Lbs)
		@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft	Service USGPM	Backwash USGPM	Clean Water (Factory Setting)	Problem Water					
15100200	HT785UF-75	22,500	18,750	11,250	8.0	1.5	34.0	49.6	8 x 44	0.75	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	93
15100218	HT785UF-100	30,000	25,000	15,000	10.0	2.0	43.4	64.3	9 x 48	1.00	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	110
15100236	HT785UF-150	45,000	37,500	22,500	12.0	2.4	62.7	90.3	10 x 54	1.50	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	141
15100254	HT785UF-200	60,000	50,000	30,000	15.0	3.5	87.1	124.6	12 x 52	2.00	20.3 x 37.4	385	158
15100257	HT785UF-250	75,000	62,500	37,500	15.0	4.0	108.9	155.8	13 X 54	2.50	20.3 x 37.4	385	198
15100260	HT785UF-300	90,000	75,000	45,000	15.0	5.0	139.2	196.2	14 x 65	3.00	23.0 x 40.5	550	244
15100261	HT785UF-75C	22,500	18,750	11,250	8.0	2.0	40.5	56.1	9 x 35	0.75	13.8 x 23.6 x 43.3	225	93
15100262	HT785UF-100C	30,000	25,000	15,000	10.0	2.4	48.6	69.5	10 x 35	1.00	13.8 x 23.6 x 43.3	225	110

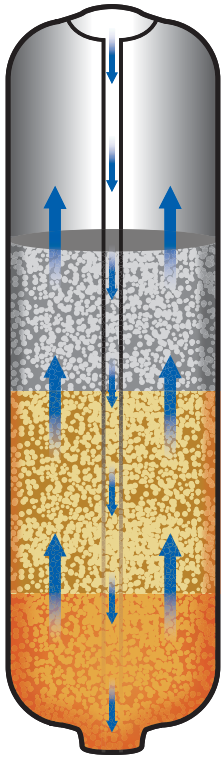
Part #	Model	System Capacity Grains			Flow Rate		Regeneration Water Usage (Gallons)		Mineral Tank Size	Resin Cu. Ft.	Brine Tank / Cabinet Size Inches	Salt Capacity (Lbs)	Ship Weight (Lbs)
		@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft	Service USGPM	Backwash USGPM	Clean Water (Factory Setting)	Problem Water					
15100300	HT785DF-75	22,500	18,750	11,250	8.0	1.5	34.0	49.6	8 x 44	0.75	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	93
15100318	HT785DF-100	30,000	25,000	15,000	10.0	2.0	43.4	64.3	9 x 48	1.00	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	110
15100336	HT785DF-150	45,000	37,500	22,500	12.0	2.4	62.7	90.3	10 x 54	1.50	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	141
15100354	HT785DF-200	60,000	50,000	30,000	15.0	3.5	87.1	124.6	12 x 52	2.00	20.3 x 37.4	385	158
15100357	HT785DF-250	75,000	62,500	37,500	15.0	4.0	108.9	155.8	13 X 54	2.50	20.3 x 37.4	385	198
15100360	HT785DF-300	90,000	75,000	45,000	15.0	5.0	139.2	196.2	14 x 65	3.00	23.0 x 40.5	550	244
15100361	HT785DF-75C	22,500	18,750	11,250	8.0	2.0	40.5	56.1	9 x 35	0.75	13.8 x 23.6 x 43.3	225	93
15100362	HT785DF-100C	30,000	25,000	15,000	10.0	2.4	48.6	69.5	10 x 35	1.00	13.8 x 23.6 x 43.3	225	110

Assembled Engineered Systems

89HE and 785HE Series High Performance Features

Reverse Flow Regeneration with Precision Brining

Traditional 'downflow' softeners deplete the unused portion of the resin bed with every regeneration. It is like draining the gas tank in your car every time before filling it up!



Reverse Flow Regen' - drives the hardness minerals up through the already depleted resin and out to drain - saving both salt and the unused portion of the resin for future use.

Soft Water Recharge - If total capacity goes below 3%, a short 15 minute 'recharge' will restore additional capacity so the softener can soften until the regular 2:00 a.m. regeneration time.

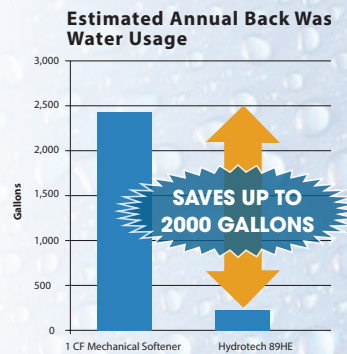
Precision Brining - saves additional salt by pre-making only 70% of the brine. Just before regeneration, the computer calculates the precise amount of brine top-up needed to regenerate only the depleted resin saving up to 30% more salt!



Soft Water Brine Tank Refill - Conserve capacity and keep brine tank cleaner by adding only treated soft water to brine tank rather than raw untreated hard water.

Smart Clean - If no water is used for seven days, the system will perform an automatic refresh preventing bacteria growth.

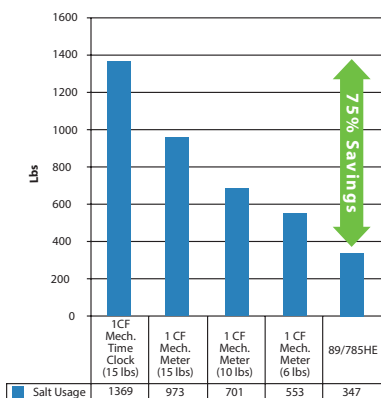
Automatic Backwash Override - On clean municipal water supply there is no need to backwash and clean the bed every regeneration. Save water each regeneration by skipping up to 10 backwash cycles.



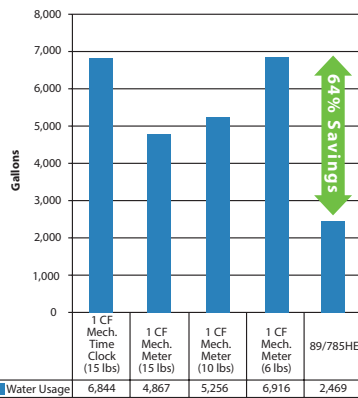
ULTIMATE SALT & WATER SAVINGS!

Use 75% Less Salt & 64% Less Water! It's good for you & good for the environment!

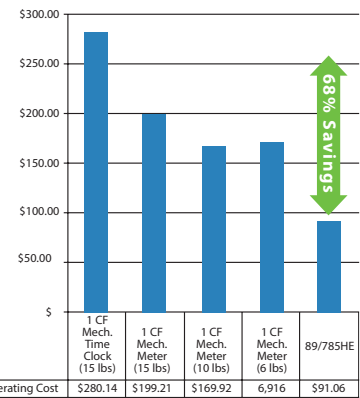
Salt Used Per Year



Estimated Regeneration Water Used Per Year



Estimated Annual Operating Cost (Salt + Water)



Assembled Engineered Systems

565 Series Water Softener



Features:

- NSF Certified electronic downflow control valves with proven piston, seal & spacer technology and rotating 'no touch' diagnostic backlit 16 character LCD display
- Meter delayed, meter override, meter immediate, calendar clock
- Self charging capacitor keeps date / time of day for 48 hours while programming remains in permanent memory
- NSF Certified high-gloss pressure tank
- IAPMO certified 8% cross-linked cation resin
- Heavy-duty brine tank / cabinet constructed with NSF Certified high-density polyethylene. Twin tank models include plastic salt grid.
- Brine safety valve for added overflow protection
- Space saving bypass with integrated turbine meter
- Time saving quick connect fittings on bypass, drain line, brine line and power cord
- Seven Year Control Valve Warranty, Lifetime Warranty on Tanks

Simple, easy to program electronics.
No confusing codes or symbols.

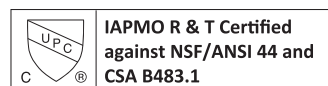


Just set time, date, hardness, # of people and go!



Options:

- Traditional twin tank or cabinet style
- Round or square brine tanks in black, blue or vanilla
- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla



7 Year Warranty
Control Valve



Lifetime Warranty
Pressure tank

Part #	Model	System Capacity Grains			Flow Rate		Regeneration Water Usage Factory Setting (Gallons)	Mineral Tank Size	Resin Cu. Ft.	Brine Tank / Cabinet Size Inches	Salt Capacity (Lbs)	Shipping Weight Lbs
		@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft	Service USGPM	Backwash USGPM						
15100400	HT565-75	21,000	18,750	11,550	8.0	1.5	56.7	8 x 44	0.75	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	93
15100418	HT565-100	28,000	25,000	15,400	10.0	2.0	67.2	9 x 48	1.00	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	110
15100436	HT565-150	42,000	37,500	23,100	12.0	2.4	76.2	10 x 54	1.50	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	141
15100454	HT565-200	56,000	50,000	30,800	15.0	3.5	124.4	12 x 52	2.00	20.3 x 37.4	385	158
15100457	HT565-250	70,000	62,500	38,500	15.0	4.0	135.4	13 X 54	2.50	20.3 x 37.4	385	198
15100460	HT565-300	84,000	75,000	46,200	15.0	5.0	173.2	14 x 65	3.00	23.0 x 40.5	550	244
15100461	HT565-75C	21,000	18,750	11,550	8.0	2.0	66.7	9 x 35	0.75	13.8 x 23.6 x 43.3	225	93
15100462	HT565-100C	28,000	25,000	15,400	10.0	2.4	75.2	10 x 35	1.00	13.8 x 23.6 x 43.3	225	110

Note: Shipping weights do not include tank jackets. Add approx 10 lbs.



Assembled Engineered Systems

765 Series Water Softener



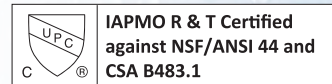
*Compared to conventional calendar clock models

Features:

- NSF Certified electronic downflow control valve with proven piston, seal & spacer technology
- User friendly LCD display shows time of day, regeneration mode and gallons remaining. Adjustable cycle times.
- Ability to manually index to desired cycle position for faster, easier installation & service
- Meter delayed, meter override, meter immediate, calendar clock
- Self charging capacitor keeps date / time of day for 48 hours while programming remains in permanent memory
- NSF Certified high-gloss pressure tank
- IAPMO certified 8% cross-linked cation resin
- Heavy-duty brine tank / cabinet constructed with NSF Certified high-density polyethylene. Twintank models include plastic salt grid.
- Brine safety valve for added overflow protection
- Space saving bypass with integrated turbine meter
- Time saving quick connect fittings on bypass, drain line, brine line and power cord
- Five Year Control Valve Warranty, Ten Year Warranty on Tanks
- Simpler than setting an alarm clock. Just set time, # of people and hardness!

Options:

- Traditional twin tank or cabinet style
- Round or square brine tanks in black, blue or vanilla
- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla



5 Year Warranty Control Valve



10 Year Warranty Pressure tank

Part #	Model	Capacity Grains			Flow Rate			Mineral Tank Size	Resin Cu. Ft.	Brine Tank / Cabinet Size Inches	Salt Capacity (Lbs)	Shipping Weight Lbs
		@ 10 lbs/ cu ft	@ 6 lbs/ cu ft (Factory Setting)	@ 3 lbs/ cu ft	Service USGPM	Backwash USGPM	Regeneration Water Usage Factory Setting (Gallons)					
15100600	HT765-75	19,875	16,500	10,500	8.0	1.5	56.7	8 x 44	0.75	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	93
15100618	HT765-100	26,500	22,000	14,000	10.0	2.0	67.2	9 x 48	1.00	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	110
15100636	HT765-150	39,750	33,000	21,000	12.0	2.4	76.2	10 x 54	1.50	BTS 15.0"x34.7/BTR 18.1x34.7	BTS 230 /BTR 270	141
15100654	HT765-200	53,000	44,000	28,000	15.0	3.0	124.4	12 x 52	2.00	20.3 x 37.4	385	158
15100657	HT765-250	66,250	55,000	35,000	15.0	4.0	135.4	13 x 54	2.50	20.3 x 37.4	385	198
15100660	HT765-300	79,500	66,000	42,000	15.0	5.0	173.2	14 x 65	3.00	23.0 x 40.5	550	244
15100661	HT765-75C	19,875	16,500	10,500	8.0	2.0	66.7	9 x 35	0.75	13.8 x 23.6 x 43.3	225	93
15100662	HT765-100C	26,500	22,000	14,000	10.0	2.4	75.2	10 x 35	1.00	13.8 x 23.6 x 43.3	225	110

Note: Shipping weights do not include tank jackets. Add approx 10 lbs.



Assembled Engineered Systems

85 TA 1" Series Water Softener

Our **85 TA 1" (Twin Alternating) Series** softeners provide up to 16.6 gpm of continuous soft water 24 hours a day. They are engineered and thoroughly tested to provide years of reliable, trouble free performance with minimal maintenance.

Operating Parameters

- ⇒ Operating pressure: 20 - 100 psi
- ⇒ Operating temperature: 39 - 100° F
- ⇒ Electrical: Input 120V 60 Hz - Output 12VAC 650mA

Materials of Construction

- ⇒ Control Valve: Plastic PPO (Noryl)
- ⇒ Resin Tanks: Corrosion resistant fibreglass reinforced polyethylene NSF 44 Certified
- ⇒ Brine Tank: High density polyethylene (includes plastic salt plate, brine well & cap, air check, and safety float)
- ⇒ Ion Exchange Resin: High Capacity IAPMO R & T certified 8% Canature resin
- ⇒ Internal Distributors

Standard Features

- ⇒ Up-flow: Provides high efficiency and ultra low hardness leakage
- ⇒ Master Controller: Fully programmable electronic controller with adjustable cycles
- ⇒ Alternating Flow: One tank is always off-line for regeneration or ready in stand by.
- ⇒ Advanced Diagnostic Information: Easily trouble shoot and access system information displayed in real time
- ⇒ Back Wash Override: Reduces regeneration water usage by skipping pre set number of back wash cycles
- ⇒ Softwater Refill: Adds treated water to the brine tank to keep brine clean and reduces maintenance
- ⇒ Optional: Aux output closed during full regeneration cycle



Assembled Engineered Systems

85 TA 1" Series Water Softener



Part #	Model	Capacity	Resin per Tank	Salt Usage		Flow Rates per Tank				Dimensions	
						Critical Flow	85TA		Max Flow To Drain	Mineral Tank	Brine Tank
							@ 15 PSI	@ 25 PSI			
							USGPM	USGPM			
		@ 10 lbs/Ft3	M ³	Lbs (Kg)	Lbs (Kg)	l/s	l/s	l/s	l/s	in	in
										mm	mm
97002305	85TA-23	23,000	0.77	11.5 (5.2)	6.75 (3.1)	3.75	10.4	14.3	1.5	8 x 44	18 x 35
		20,000	0.02			0.24	0.66	0.9	0.09	203 x 1118	460 x 876
97002306	85TA-30	30,000	1	15 (6.8)	10 (4.5)	5.0	11	15	2	9 x 48	18 x 35
		27,000	0.03			0.32	0.69	0.95	0.13	229 x 1219	460 x 876
97002307	85TA-45	45,000	1.5	23 (10.2)	15 (6.8)	7.5	11.2	15.1	2.4	10 x 54	18 x 35
		40,500	0.04			0.47	0.71	0.95	0.15	254 x 1372	460 x 876
97002308	85TA-60	60,000	2	30 (13.6)	20 (9.1)	10	12.2	16.2	3.5	12 x 52	20 x 37
		54,000	0.06			0.63	0.77	1.02	0.22	305 x 1321	516 x 950
97002309	85TA-90	90,000	3	45 (20.5)	30 (13.6)	15	12.6	16.6	5	14 x 65	23 x 41
		81,000	0.08			0.95	0.79	1.05	0.32	356 x 1651	584 x 1029

Assembled Engineered Systems

850 Series Compact Water Softener

For when size really does matter! The ideal choice for apartments, condominiums or other installations with space constraints.



5 Year Warranty Control Valve

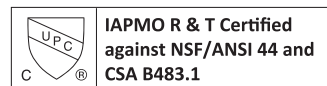


10 Year Warranty Pressure tank



Features:

- ➔ IAPMO certified to NSF/ANSI 44 for effective reduction of hardness as verified & substantiated by test data
- ➔ NSF Certified electronic downflow control valve with proven piston, seal & spacer technology, adjustable cycle times and rotating 'no touch' diagnostic backlit 16 character LCD display
- ➔ Meter immediate, meter delayed, meter override, vacation and calendar clock modes
- ➔ Self charging capacitor keeps date / time of day for 48 hours while programming remains in permanent memory
- ➔ NSF Certified high-gloss pressure tank
- ➔ IAPMO certified 8% cross-linked cation resin
- ➔ Heavy-duty cabinet constructed with NSF Certified highdensity polyethylene.
- ➔ Brine safety valve for added overflow protection
- ➔ Space saving bypass with integrated turbine meter
- ➔ Time saving quick connect fittings on bypass, drain line, brine line and power cord
- ➔ 5 year control valve warranty; 10 years on tanks



Sliding cover design for easy salt refill



User-friendly electronics

Part #	Model	Capacity Grains			Flow Rate		Regeneration Water Usage (Gallons)	Mineral Tank Size (IN)	Resin Cu Ft	Brine Tank / Cabinet Size Inches (WxDxH)	Salt Capacity (Lbs)	Ship Weight (Lbs)
		@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft	Service USGPM	Backwash USGPM						
15010059	HT850-45C	12,600	11,250	6,930	10.0	2.0	15.4	10 x 17	0.45	13.1 x 19.9 x 22.6	100	54

Assembled Engineered Systems

Shower Softener

Just want soft water for your shower? This compact water-proof shower unit requires no electricity. The one-step manual regeneration is easy to operate. Small portable design makes it perfect for non-winterized cottages.



Features:

- ➔ Easy installation
- ➔ No electricity required
- ➔ Waterproof slide cover
- ➔ One step regeneration process

Part #	Model	Mineral Tank Size (IN)	Resin Cu Ft	Brine Tank / Cabinet Size Inches (WxDxH)	Ship Weight (Lbs)
15180001	SHOWER SOFTENER	7 x 13	0.22	8.7 x 14.2 x 19.2	20

New Quick Connect Stainless Steel Flexi-Connector Kits

We are pleased to introduce our new Quick Connect Stainless Steel Flexi-Connector Kits designed specifically for Canature WaterGroup control valves.

The connectors are not only affordable, they provide for faster, easier installations while eliminating two connection points.

Each kit consists of:

- ➔ Two 18" long flexible water connectors with John Guest® Quick Connect fittings on one end and proprietary Canature WaterGroup control 3/4" and 1" valve bypass connection on the other
- ➔ Polybag with merchandising header

Simply push to connect to any 3/4" or 1" copper, CPVC or PEX piping with no tools!



- 60010618 3/4" J6 x 3/4 Canature WaterGroup Bypass
- 60010619 1" J6 x 3/4 Canature WaterGroup Bypass
- 60010670 1" JG x 1" Canature WaterGroup Bypass
- 60010736 3/4" JG x 1" Canature WaterGroup Bypass

Assembled Engineered Systems

Automatic Whole House Water Filter Series

Problem Water Is No Problem! When you install a whole-house automatic water filtration system your water problems will disappear. Rid your water of troublesome iron, sediment, bad tastes, stains, color and odors.

Types of Filters:

Manganese Greensand Plus Filters – Iron, manganese and sulfur are oxidized into solids and trapped in the filter bed where they get flushed to the drain

Birm Filters - Remove soluble or precipitated iron without the use of expensive or messy chemicals

Taste & Odor Filters – Remove bad tastes and odors caused by chlorine & organics

Neutralizing Filters – Raise the pH of acidic water to neutralize corrosiveness and protect fixtures, pipes and appliances

Multi-Media Filters – Eliminate suspended sand and silt that makes water cloudy

Nexsand Turbidity Filters – Remove suspended solids, Ferric Hydroxide (Red Water Iron) or Sediment from your well or water system down to 5 Microns. Nexsand has proven extremely effective and will provide better flow rates than Multi Media or Sand Filters.

Chloramines Removal Filters – This two tank system uses special catalytically enhanced carbon and provides improved bed depth and contact time for more effective reduction of chloramines.

Options:

- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla



89 valve

- True 1" porting for high flow rates up to 18" systems. Ideal for larger homes.
- Large Backlit LCD display screen with 4 line / 80 character touch pad screen.
- Seven Year Warranty



785 valve

- High flow rates up to 16" systems.
- Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- Seven Year Warranty



565 valve

- Simple user friendly 2 line / 32 character display
- Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- Seven Year Warranty



765 valve

- Simple electronics with index knob to manually initiate regeneration and select cycle position
- Five Year Warranty

Clean, Clear
and
Odor Free

Assembled Engineered Systems

89 Filter Specifications

Part #	Model	Media Cu Ft	Flow Rate USGPM			pH Correction Range	Iron Removal Capacity (ppm)	KMnO4 Regen (oz)	Micron Rating	Mineral Tank Size	Pipe Size Inches	Ship Weight Lbs
			Service	Peak	Backwash							
Iron Filters - Manganese Greensand Plus												
15550000	HT89IF-75	0.75	3.0	4.0	3.5		4,500	4.0	-	8 x 44	1"	113
15550007	HT89IF-100	1.00	3.0	5.0	4.0		6,000	4.0	-	9 x 48	1"	129
15550014	HT89IF-150	1.50	4.0	8.0	5.0		9,000	4.0	-	10 x 54	1"	179
15550021	HT89IF-200	2.00	5.0	10.0	7.0		12,000	8.0	-	12 x 52	1"	233
15550025	HT89IF-300	3.00	6.0	12.0	10.0		18,000	8.0	-	14 x 65	1"	352
Maximum Removal Amounts: Combination of Iron x 1, Manganese x 2, H2S x 3 = 10 ppm; Hydrogen Sulphide = 3.0 ppm; Iron (Ferrous) = 7.0 ppm; Manganese = 5.0 ppm; Bacterial Iron = 0.0 ppm; Min pH = 7.0												
Iron Filters - Birm												
15550027	HT89BM-75	0.75	3.0	4.0	3.5		-	-	-	8 x 44	1"	67
15550034	HT89BM-100	1.00	3.0	5.0	4.0		-	-	-	9 x 48	1"	79
15550041	HT89BM-150	1.50	4.0	8.0	5.0		-	-	-	10 x 54	1"	101
15550048	HT89BM-200	2.00	5.0	10.0	7.0		-	-	-	12 x 52	1"	121
15550052	HT89BM-300	3.00	6.0	12.0	10.0		-	-	-	14 x 65	1"	184
Taste & Odor Filters												
15550054	HT89TO-75	0.75	3.5	5.0	3.5		-	-	-	8 x 44	1"	50
15550061	HT89TO-100	1.00	4.0	7.0	4.0		-	-	-	9 x 48	1"	60
15550068	HT89TO-150	1.50	5.0	8.0	5.0		-	-	-	10 x 54	1"	78
15550075	HT89TO-200	2.00	8.0	12.0	7.0		-	-	-	12 x 52	1"	95
15550079	HT89TO-300	3.00	10.0	15.0	10.0		-	-	-	14 x 65	1"	138
Neutralizing Filters												
15550156	HT89NU-75	0.75	2.0	3.5	3.5	6.0 - 6.9 TDS >200	-	-	-	8 x 44	1"	93
15550163	HT89NU-100	1.00	10.0	5.0	4.0	6.0 - 6.9 TDS >200	-	-	-	9 x 48	1"	120
15550170	HT89NU-150	1.50	5.0	8.0	5.0	6.0 - 6.9 TDS >200	-	-	-	10 x 54	1"	164
15550177	HT89NU-200	2.00	6.0	10.0	7.0	6.0 - 6.9 TDS >200	-	-	-	12 x 52	1"	207
15550181	HT89NU-300	3.00	7.0	12.0	10.0	6.0 - 6.9 TDS >200	-	-	-	14 x 65	1"	330
Sediment Turbidity Multi-Media Filters												
15550105	HT89MM-75	0.75	4.0	5.0	4.0		-	-	15-20 µ	8 x 44	1"	79
15550112	HT89MM-100	1.00	5.0	7.0	5.0		-	-	15-20 µ	9 x 48	1"	118
15550119	HT89MM-150	1.50	7.0	10.0	7.0		-	-	15-20 µ	10 x 54	1"	144
15550126	HT89MM-200	2.00	10.0	12.0	10.0		-	-	15-20 µ	12 x 52	1"	198
15550130	HT89MM-300	3.00	12.0	15.0	14.0		-	-	15-20 µ	14 x 65	1"	342
Nexsand Turbidity Filters												
15550132	HT89NEX-75	0.75	4.0	6.0	5.0		-	-	3-5 µ	8 x 44	1"	90
15550139	HT89NEX-100	1.00	5.0	8.0	7.0		-	-	3-5 µ	9 x 48	1"	135
15550146	HT89NEX-150	1.50	8.0	10.0	10.0		-	-	3-5 µ	10 x 54	1"	205
15550153	HT89NEX-200	2.00	10.0	12.0	14.0		-	-	3-5 µ	12 x 52	1"	255
Chloramines Reduction Filters (Catalytic Carbon) Dual Tank												
15550081-1	HT89CLA-75	0.75	4.0	7.0	3.5					8 x 44	1"	100
15550088-1	HT89CLA-100	1.00	5.0	8.0	4.0					9 x 48	1"	120
15550095-1	HT89CLA-150	1.50	8.0	10.0	5.0					10 x 54	1"	155
15550103-1	HT89CLA-200	2.00	10.0	12.0	7.0					12 x 52	1"	190

*MEDIA DOES NOT COME LOADED IN 12" FILTERS AND ABOVE

All Filters	
Plumbing Connections	89 Control Valve 1" Straight only
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA
Water Temperature	Min 39 - Max. 100
Water Pressure	Min. 20 - Max. 125 psi



Assembled Engineered Systems

785 Series Filter Specifications

Part #	Model	Media Cu Ft	Flow Rate USGPM			pH Correction Range	Iron Removal Capacity (ppm)	KMnO4 Regen (oz)	Micron Rating	Mineral Tank Size	Pipe Size Inches	Ship Weight Lbs
			Service	Peak	Back-wash							
Iron Filters - Manganese Greensand Plus												
15550200	HT785IF-75	0.75	3.0	4.0	3.5		4,500	4.0	-	8 x 44	3/4" and 1"	113
15550207	HT785IF-100	1.00	3.0	5.0	4.0		6,000	4.0	-	9 x 48	3/4" and 1"	129
15550214	HT785IF-150	1.50	4.0	8.0	5.0		9,000	4.0	-	10 x 54	3/4" and 1"	179
15550221	HT785IF-200	2.00	5.0	10.0	7.0		12,000	8.0	-	12 x 52	3/4" and 1"	233
15550225	HT785IF-300	3.00	6.0	12.0	10.0		18,000	8.0	-	14 x 65	3/4" and 1"	352
Maximum Removal Amounts: Combination of Iron x 1, Manganese x 2, H2S x 3 = 10 ppm; Hydrogen Sulphide = 3.0 ppm; Iron (Ferrous) = 7.0 ppm; Manganese = 5.0 ppm; Bacterial Iron = 0.0 ppm; Min pH = 7.0												
Iron Filters - Birm												
15550227	HT785BM-75	0.75	3.0	4.0	3.5		-	-	-	8 x 44	3/4" and 1"	67
15550234	HT785BM-100	1.00	3.0	5.0	4.0		-	-	-	9 x 48	3/4" and 1"	79
15550241	HT785BM-150	1.50	4.0	8.0	5.0		-	-	-	10 x 54	3/4" and 1"	101
15550248	HT785BM-200	2.00	5.0	10.0	7.0		-	-	-	12 x 52	3/4" and 1"	121
15550252	HT785BM-300	3.00	6.0	12.0	10.0		-	-	-	14 x 65	3/4" and 1"	184
Taste & Odor Filters												
15550254	HT785TO-75	0.75	3.5	5.0	3.5		-	-	-	8 x 44	3/4" and 1"	50
15550261	HT785TO-100	1.00	4.0	7.0	4.0		-	-	-	9 x 48	3/4" and 1"	60
15550268	HT785TO-150	1.50	5.0	8.0	5.0		-	-	-	10 x 54	3/4" and 1"	78
15550275	HT785TO-200	2.00	8.0	12.0	7.0		-	-	-	12 x 52	3/4" and 1"	95
15550279	HT785TO-300	3.00	10.0	15.0	10.0		-	-	-	14 x 65	3/4" and 1"	138
Neutralizing Filters												
15550356	HT785NU-75	0.75	2.0	3.5	3.5	6.0 - 6.9 TDS >200	-	-	-	8 x 44	3/4" and 1"	93
15550363	HT785NU-100	1.00	3.0	5.0	4.0	6.0 - 6.9 TDS >200	-	-	-	9 x 48	3/4" and 1"	120
15550370	HT785NU-150	1.50	5.0	8.0	5.0	6.0 - 6.9 TDS >200	-	-	-	10 x 54	3/4" and 1"	164
15550377	HT785NU-200	2.00	6.0	10.0	7.0	6.0 - 6.9 TDS >200	-	-	-	12 x 52	3/4" and 1"	207
15550381	HT785NU-300	3.00	7.0	12.0	10.0	6.0 - 6.9 TDS >200	-	-	-	14 x 65	3/4" and 1"	330
Sediment Turbidity Multi-Media Filters												
15550305	HT785MM-75	0.75	4.0	5.0	4.0		-	-	15 - 20 µ	8 x 44	3/4" and 1"	79
15550312	HT785MM-100	1.00	5.0	7.0	5.0		-	-	15 - 20 µ	9 x 48	3/4" and 1"	118
15550319	HT785MM-150	1.50	7.0	10.0	7.0		-	-	15 - 20 µ	10 x 54	3/4" and 1"	144
15550326	HT785MM-200	2.00	10.0	12.0	10.0		-	-	15 - 20 µ	12 x 52	3/4" and 1"	198
15550330	HT785MM-300	3.00	12.0	15.0	14.0		-	-	15 - 20 µ	14 x 65	3/4" and 1"	342
Nexsand Turbidity Filters												
15550332	HT785NEX-75	0.75	4.0	6.0	5.0		-	-	3 - 5 µ	8 x 44	3/4" and 1"	90
15550339	HT785NEX-100	1.00	5.0	8.0	7.0		-	-	3 - 5 µ	9 x 48	3/4" and 1"	135
15550346	HT785NEX-150	1.50	8.0	10.0	10.0		-	-	3 - 5 µ	10 x 54	3/4" and 1"	205
15550353	HT785NEX-200	2.00	10.0	12.0	14.0		-	-	3 - 5 µ	12 x 52	3/4" and 1"	255
Chloramines Reduction Filters (Catalytic Carbon) Dual Tank												
15550281-1	HT785CLA-75	0.75	4.0	7.0	5.0					8 x 44	1/2" - 1"	100
15550288-1	HT785CLA-100	1.00	5.0	8.0	7.0					9 x 48	1/2" - 1"	120
15550295-1	HT785CLA-150	1.50	8.0	10.0	10.0					10 x 54	1/2" - 1"	155
15550302-1	HT785CLA-200	2.00	10.0	12.0	14.0					12 x 52	1/2" - 1"	190

*MEDIA DOES NOT COME LOADED IN 12" FILTERS AND ABOVE

All Filters	
Plumbing Connections	3/4" 90° Elbows & 1" Straight NPT
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA
Water Temperature	Min 39 - Max. 100 degrees Fahrenheit
Water Pressure	Min. 20 - Max. 125 psi



Assembled Engineered Systems

565 Filter Specifications

Part #	Model	Media Cu Ft	Flow Rate USGPM			pH Correction Range	Iron Removal Capacity (ppm)	KMnO4 Regen (oz)	Micron Rating	Mineral Tank Size	Pipe Size Inches	Ship Weight Lbs
			Service	Peak	Backwash							
Iron Filters - Manganese Greensand Plus												
15550400	HT 565IF-75	0.75	3.0	4.0	3.5		4,500	2.0		8 x 44	3/4" and 1"	113
15550407	HT 565IF-100	1.0	3.0	5.0	4.0		6,000	4.0		9 x 48	3/4" and 1"	129
15550414	HT 565IF-150	1.5	4.0	8.0	5.0		9,000	6.0		10 x 54	3/4" and 1"	179
Maximum Removal Amounts: Combination of Iron x 1, Manganese x 2, H2S x 3 = 10 ppm; Hydrogen Sulphide = 3.0 ppm; Iron (Ferrous) = 7.0 ppm; Manganese = 5.0 ppm; Bacterial Iron = 0.0 ppm; Min pH = 7.0												
Iron Filters - Birm												
15550421	HT 565BM-75	0.75	3.0	4.0	3.5		-	-		8 x 44	3/4" and 1"	67
15550428	HT 565BM-100	1.0	3.0	5.0	4.0		-	-		9 x 48	3/4" and 1"	79
15550435	HT 565BM-150	1.5	4.0	8.0	5.0		-	-		10 x 54	3/4" and 1"	101
Taste & Odor Filters												
15550442	HT 565TO-75	0.75	3.5	5.0	3.5		-	-		8 x 44	3/4" and 1"	50
15550449	HT 565TO-100	1.0	4.0	7.0	4.0		-	-		9 x 48	3/4" and 1"	60
15550456	HT 565TO-150	1.5	5.0	8.0	5.0		-	-		10 x 54	3/4" and 1"	78
Neutralizing Filters												
15550519	HT 565NU-75	0.75	2.0	4.0	3.5	6.0 - 6.9 TDS >200	-	-		8 x 44	3/4" and 1"	93
15550526	HT 565NU-100	1.0	3.0	6.0	4.0	6.0 - 6.9 TDS >200	-	-		9 x 48	3/4" and 1"	120
15550533	HT 565NU-150	1.5	4.0	10.0	5.0	6.0 - 6.9 TDS >200	-	-		10 x 54	3/4" and 1"	164
Sediment Turbidity Multi-Media Filters												
15550484	HT 565MM-75	0.75	4.0	5.0	4.0		-	-	15 -20 µ	8 x 44	3/4" and 1"	79
15550491	HT 565MM-100	1.0	5.0	7.0	5.0		-	-	15 -20 µ	9 x 48	3/4" and 1"	118
15550498	HT 565MM-150	1.5	7.0	10.0	7.0		-	-	15 -20 µ	10 x 54	3/4" and 1"	144
Nexsand Turbidity Filters												
15550505	HT 565NEX-75	0.75	4.0	6.0	3.5		-	-	3 - 5 µ	8 x 44	1/2" - 1"	90
15550512	HT 565NEX-100	1.00	5.0	8.0	4.0		-	-	3 - 5 µ	9 x 48	1/2" - 1"	135
15550540	HT 565NEX-150	1.50	8.0	10.0	5.0		-	-	3 - 5 µ	10 x 54	1/2" - 1"	175
Chloramines Reduction Filters (Catalytic Carbon) Dual Tank												
15550463-1	HT 565CLA-75	0.75	4.0	6.0	3.5		-	-		8 x 44	3/4" and 1"	100
15550470-1	HT 565CLA-100	1.00	5.0	8.0	4.0		-	-		9 x 48	3/4" and 1"	120
15550477-1	HT 565CLA-150	1.50	8.0	10.0	5.0		-	-		10 x 54	3/4" and 1"	155

All Filters	
Plumbing Connections	3/4" 90° Elbows & 1" Straight NPT
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA
Water Temperature	Min 39 - Max. 100 degrees Fahrenheit
Water Pressure	Min. 20 - Max. 125 psi



Designed, Engineered & Assembled in the U.S.A.

Assembled Engineered Systems

765 Filter Specifications

Part #	Model	Media Cu Ft	Flow Rate USGPM			pH Correction Range	Iron Removal Capacity (ppm)	KMnO4 Regen (oz)	Micron Rating	Mineral Tank Size	Pipe Size Inches	Ship Weight Lbs
			Service	Peak	Backwash							
Iron Filters - Manganese Greensand Plus												
15550600	HT 765IF-75	0.75	3.0	4.0	3.5		4,500	2.0	-	8 x 44	3/4" and 1"	113
15550607	HT 765IF-100	1.0	3.0	5.0	4.0		6,000	4.0	-	9 x 48	3/4" and 1"	129
15550614	HT 765IF-150	1.5	4.0	8.0	5.0		9,000	6.0	-	10 x 54	3/4" and 1"	179
Maximum Removal Amounts: Combination of Iron x 1, Manganese x 2, H2S x 3 = 10 ppm; Hydrogen Sulphide = 3.0 ppm; Iron (Ferrous) = 7.0 ppm; Manganese = 5.0 ppm; Bacterial Iron = 0.0 ppm; Min pH = 7.0												
Iron Filters - Birm												
15550621	HT 765BM-75	0.75	3.0	4.0	3.5		-	-		8 x 44	3/4" and 1"	67
15550628	HT 765BM-100	1.0	3.0	5.0	4.0		-	-		9 x 48	3/4" and 1"	79
15550635	HT 765BM-150	1.5	4.0	8.0	5.0		-	-		10 x 54	3/4" and 1"	101
Taste & Odor Filters												
15550642	HT 765TO-75	0.75	3.5	5.0	3.5		-	-		8 x 44	3/4" and 1"	50
15550649	HT 765TO-100	1.0	4.0	7.0	4.0		-	-		9 x 48	3/4" and 1"	60
15550656	HT 765TO-150	1.5	5.0	8.0	5.0		-	-		10 x 54	3/4" and 1"	78
Neutralizing Filters												
15550719	HT 765NU-75	0.75	2.0	4.0	3.5	6.0 - 6.9 TDS >200	-	-		8 x 44	3/4" and 1"	93
15550726	HT 765NU-100	1.0	3.0	6.0	4.0	6.0 - 6.9 TDS >200	-	-		9 x 48	3/4" and 1"	120
15550733	HT 765NU-150	1.5	4.0	10.0	5.0	6.0 - 6.9 TDS >200	-	-		10 x 54	3/4" and 1"	164
Sediment Turbidity Multi-Media Filters												
15550684	HT 765MM-75	0.75	4.0	5.0	4.0		-	-	15 - 20 µ	8 x 44	3/4" and 1"	79
15550691	HT 765MM-100	1.0	5.0	7.0	5.0		-	-	15 - 20 µ	9 x 48	3/4" and 1"	118
15550698	HT 765MM-150	1.5	7.0	10.0	7.0		-	-	15 - 20 µ	10 x 54	3/4" and 1"	144
Nexsand Turbidity Filters												
15550705	HT 765NEX-75	0.75	4.0	6.0	5.0		-	-	3 - 5 µ	8 x 44	3/4" and 1"	90
15550712	HT 765NEX-100	1.00	5.0	8.0	7.0		-	-	3 - 5 µ	9 x 48	3/4" and 1"	135
15550740	HT 765NEX-150	1.50	8.0	10.0	5.0		-	-	3 - 5 µ	10 x 54	3/4" - 1"	175
Chloramines Reduction Filters (Catalytic Carbon) Dual Tank												
15550663-1	HT 765CLA-75	0.75	4.0	6.0	3.5		-	-		8 x 44	3/4" and 1"	100
15550670-1	HT 765CLA-100	1.00	5.0	8.0	4.0		-	-		9 x 48	3/4" and 1"	120
15550677-1	HT 765CLA-150	1.50	8.0	10.0	5.0		-	-		10 x 54	3/4" and 1"	155

All Filters	
Plumbing Connections	3/4" 90° Elbows & 1" Straight NPT
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA
Water Temperature	Min 39 - Max. 100 degrees Fahrenheit
Water Pressure	Min. 20 - Max. 125 psi



Assembled Engineered Systems

BAF Birm Series Iron Filter


Remove Stubborn Iron Without Chemicals

Incoming water passes through a compressed pocket of air contained in the tank. The oxygen precipitates the iron into solid form and is removed when it passes through the filters media bed. Birm acts as a catalyst in the reaction between iron and oxygen that also causes the iron to precipitate into a solid.

As more water passes through the unit the air becomes depleted and the birm becomes overloaded with the iron. Periodic automatic regeneration replenishes the supply of air and cleans the media of filtered iron. Birm is not consumed in the iron removal process and therefore is much more economical than many other iron removal processes.



Clean, Clear
Iron-Free
Water

 IAPMO R & T Certified
against NSF/ANSI 42



Uses
50%
Less Water!



Tank Mate™
Patent Pending
Included with all systems

Assembled Engineered Systems

BAF Birm Specifications

Features:

- ➔ Exclusive NSF Certified electronic control valve (systems available with Hydrotech 89 and 565 control valves)
- ➔ Natural oxidation removes iron without chemicals, air pumps or a venturi
- ➔ Low maintenance two tank system
- ➔ Regenerate less frequently than traditional iron filters using up to 50% less water than single tank iron filters
- ➔ Lifetime Warranty on NSF Certified tank; 7 years on NSF Certified control valve
- ➔ Meter Immediate, Meter Delayed, Meter with Day Override, Vacation and Calendar Clock mode
- ➔ Adjustable cycle times
- ➔ Audible Cycle Advance Alarm sounds if the valve is stuck in any position for more than 2 minutes
- ➔ Use less power than an alarm clock (approx. \$1.19 annually)
- ➔ Unique bypass with an integrated space saving turbine meter. One-piece design avoids meter jamming
- ➔ Time saving quick connect fittings on bypass and brine line. Power cord even has quick connect for easy valve spin on.
- ➔ Drain line o-ring eliminates need for Teflon
- ➔ Optional flexible stainless steel connectors are also available



89 valve

- ➔ True 1" porting for high flow rates up to 18" systems. Ideal for larger homes.
- ➔ Large Backlit LCD display screen with 4 line / 80 character touch pad screen.
- ➔ Seven Year Warranty



565 valve

- ➔ Simple user friendly 2 line /32 character display
- ➔ Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- ➔ Seven Year Warranty

Specifications	BAF-100	BAF-150	BAF-200	BAF-300	BAF-400	BAF-500
Typical Service Flow Rate	3.0 gpm	4.0 gpm	5.0 gpm	6.0 gpm	7.0 gpm	9.0 gpm
Peak Flow Rate	6.0 gpm	10.0 gpm	12.0 gpm	14.0 gpm	16.0 gpm	18.0 gpm
Backwash Flow Rate	5.0 gpm	5.0 gpm	7.0 gpm	10.0 gpm	14.0 gpm	21.0 gpm
Filter Media Volume (ft3)	1.0 ft	1.5 ft	2.0ft	3.0 ft	4.0 ft	5.0 ft
Filter Tank Size	10 x 44	10 x 54	12 x 52	14 x 65	16 x 65	18 x 65
Air Contact Tank Size	10 x 44	10 x 54	12 x 52	14 x 65	16 x 65	18 x 65
Shipping Weight	150 lbs	188 lbs	248 lbs	368 lbs	443 lbs	518 lbs
Media Loaded	Yes	Yes	No	No	No	No
Maximum Iron	30.0 ppm					
Hydrogen Sulfide	Trace					
Manganese	0.0 ppm					
Iron Bacteria Removal	No					
pH	7.0 - 8.5					
Plumbing Connections	565 model 3/4" 90 degree elbows and 1" straight connectors / 89 models 1" 90 degree elbows and straight connectors					
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA					
Water Temperature	Min 39 - Max. 100° F					
Water Pressure	Min. 20 - Max. 125 psi					

Note: BAF systems using 565 Controls only available on 1.0 and 1.5 cubic foot units



89 BAF - BIRM IRON FILTER

Part #	Description	Weight (LBS)
15550900-1	HT89BAF-100, Natural, 10x44 Birm, 8x44 Air	150 lbs
15550901-1	HT89BAF-150, Natural, 10x44 Birm, 10x54 Air	188 lbs
15550902-1	HT89BAF-200, Natural, 12x52 Birm, 12x52 Air	248 lbs
15550903-1	HT89BAF-300, Natural, 14x65 Birm, 14x65 Air	368 lbs

565 BAF - BIRM IRON FILTER

Part #	Description	Weight (LBS)
15550912-1	HT565BAF-100, Natural, 10x44 Birm, 8x44 Air	150
15550913-1	HT565BAF-150, Natural, 10x44 Birm, 10x54 Air	188

Assembled Engineered Systems

BIF Series Chemical Free Iron Filter

Remove Stubborn Iron, Manganese and Sulphur Without Chemicals

Incoming raw water passes through a compressed pocket of air contained in the first tank. The air precipitates the iron into solid form and is removed when it passes through the filters media bed contained in the second tank. The media acts as a catalyst in the reaction between iron and oxygen that also causes the iron to precipitate into a solid.

As more water passes through the unit the air becomes depleted and the media becomes overloaded with the iron. Periodic automatic regeneration replenishes the supply of air and cleans the media of filtered iron.



*Clean, Clear
Iron-Free
Water*



Assembled Engineered Systems

BIF Specifications

Features:

- Exclusive NSF Certified electronic control valve (systems available with Hydrotech 89 and 565 control valves)
- Natural oxidation removes iron, sulfur and manganese without chemicals, air pumps or a venturi
- Low maintenance two tank system
- Regenerate less frequently than traditional iron filters using up to 50% less water than single tank iron filters
- Lifetime Warranty on NSF Certified fibreglass tanks
- Seven Year Warranty on NSF Certified control valve
- Meter Immediate, Meter Delayed, Meter with Day Override, Vacation and Calendar Clock mode
- Adjustable cycle times
- Unique bypass with an integrated space saving turbine meter and sample port on the inlet. One-piece design avoids meter jamming
- Time saving quick connect fittings on bypass
- Quick connect drain line o-ring eliminates need for Teflon
- Power cord even has quick connect for easy valve spin on
- Hose clamp and 10' of drain tubing included



89 valve

- True 1" porting for high flow rates up to 18" systems. Ideal for larger homes.
- Large Backlit LCD display screen with 4 line / 80 character touch pad screen.
- Seven Year Warranty



565 valve

- Simple user friendly 2 line / 32 character display
- Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- Seven Year Warranty

Specifications	BIF-100	BIF-150	BIF-200	BIF-300	BIF-400	BIF-500
	BIFMN-100	BIFMN-150	BIFMN-200	BIFMN-300	BIFMN-400	BIFMN-500
Typical Service Flow Rate	3.0 gpm	4.0 gpm	5.0 gpm	6.0 gpm	7.0 gpm	9.0 gpm
Peak Flow Rate	6.0 gpm	10.0 gpm	12.0 gpm	14.0 gpm	16.0 gpm	18.0 gpm
Backwash Flow Rate	5.0 gpm	5.0 gpm	7.0 gpm	10.0 gpm	14.0 gpm	21.0 gpm
Filter Media Volume (ft3)	1.0 ft	1.5 ft	2.0ft	3.0 ft	4.0 ft	5.0 ft
Filter Tank Size	10x44	10x54	12x52	14x65	16x65	18x65
Air Contact Tank Size	10x44	10x54	12x52	14x65	116x65	18x65
Shipping Weight	150 lbs	188 lbs	248 lbs	368 lbs	443 lbs	518 lbs
Media Loaded	Yes	Yes	No	No	No	No
Maximum Iron	30.0 ppm					
Hydrogen Sulfide	3.0 ppm					
Manganese	BIF Model 0.0 ppm / BIFMN Models up to 1.0 ppm					
Iron Bacteria Removal	No					
pH	BIF Models pH 7.0 - 8.5 / BIFMN Models pH 6.5 - 6.9					
Plumbing Connections	3/4" 90° elbow and 1" Straight NPT Adaptors (89 Control Valve 1" Straight only)					
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA					
Water Temperature	Min 39 - Max. 100° F					
Water Pressure	Min. 20 - Max. 125 psi					

Note: BIF/BIFMN systems using 565 Controls only available on 1.0 and 1.5 cubic foot units
 At stated service flow rates the pressure drop through these devices will not exceed 15 PSIG
 Do not use where microbiologically unsafe



Tank Mate™ - Patent Pending
 Included with all systems



89 BIF - CHEMFREE IRON & HYDROGEN SULFIDE FILTER

Part #	Description	Weight (LBS)
15550916-1	HT89BIF-100, Natural, 10x44 Chem Free, 8x44 Air	150
15550917-1	HT89BIF-150, Natural, 10x54 Chem Free, 10x54 Air	188
15550918-1	HT89BIF-200, Natural, 12x52 Chem Free, 12x52 Air*	248
15550919-1	HT89BIF-300, Natural, 14x65 Chem Free, 14x65 Air*	368

565 BIF - CHEMFREE IRON & HYDROGEN SULFIDE FILTER

Part #	Description	Weight (LBS)
15550928-1	HT565BIF-100, Natural, 10 x 44 Chem Free, 8 x 44 Air	150
15550929-1	HT565BIF-150, Natural, 10 x 54 Chem Free, 10 x 54 Air	188

Assembled Engineered Systems

AIO Series Chemical Free Iron Filter

The AIO Chemical Free Iron filter is intended to be an effective and economical way to remove iron from water without the use of messy and dangerous chemicals or expensive pumps or an external venturi. The AIO valve uses a unique process to create an air bubble at the upper portion of the tank to oxidize any ferrous iron prior to being filtered by the media. It can also be used to remove low concentrations of dissolved hydrogen sulfide and manganese from water.

How does the AIO (Air Induction Oxidation) filter work?

This filter works by adding oxygen to the incoming water by passing it through a bubble of compressed air. The water is then passed through a special filter bed. The special media not only increases the pH of the water to enhance iron removal but also acts as a physical barrier to trap iron precipitate. As more water passes through this iron filter, the oxygen in the unit is used up, and the media gets loaded with iron. The regeneration process then begins in order to replenish the supply of oxygen, and to backwash the precipitated iron trapped in the media bed. The iron removal efficiency will be more effective with high pH water. The filter is fitted with an inlet check valve to prevent any air from flowing backwards out of the filter tank.



Model	Media Cu Ft	Flow Rate USGPM			Mineral Tank Size	Pipe Size Inches	Ship Weight Lbs
		Service	Peak	Backwash			
AIO (Air Induction Oxidizer) Chemical Free Iron Filter (Single Tank)							
AIO75	0.75	2	4	3.5	8 x 44	3/4" - 1"	93
AIO10	1.0	3	6	4	9 x 48	3/4" - 1"	120
AIO15	1.5	4	10	5	10 x 54	3/4" - 1"	164
AIO20	2.00	5	12	7	1252	3/4" - 1"	207
AIO30	3.00	6	14	10	1465	3/4" - 1"	330
AIO75M	0.75	2	4	3.5	8 x 44	3/4" - 1"	93
AIO10M	1.0	3	6	4	9 x 48	3/4" - 1"	120
AIO15M	1.5	4	10	5	10 x 54	3/4" - 1"	164
AIO20M	2.00	5	12	7	1252	3/4" - 1"	207
AIO30M	3.00	6	14	10	1465	3/4" - 1"	330
AIOC (Air Induction Oxidizer) Filter For Hydrogen Sulfide Reduction (Single Tank)							
AIOC75	0.75	2	4	3.5	8 x 44	3/4" - 1"	50
AIOC10	1.0	3	6	4	9 x 48	3/4" - 1"	60
AIOC15	1.5	4	10	5	10 x 54	3/4" - 1"	78
AIOC20	2.00	5	12	7	1252	3/4" - 1"	95
AIOC30	3.00	6	14	10	1465	3/4" - 1"	138
AIOB (Air Induction Oxidizer) Birm Iron Filter							
AIOB75	0.75	2	4	3.5	8 x 44	3/4" - 1"	67
AIOB10	1.0	3	6	4	9 x 48	3/4" - 1"	79
AIOB15	1.5	4	10	5	10 x 54	3/4" - 1"	101
AIOB20	2.00	5	12	7	1252	3/4" - 1"	121
AIOB30	3.00	6	14	10	1465	3/4" - 1"	184

Options:

- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla



765 valve

- Simple electronics with index knob to manually initiate regeneration and select cycle position
- Five Year Warranty



89 valve

- True 1" porting for high flow rates up to 18" systems. Ideal for larger homes.
- Large Backlit LCD display screen with 4 line / 80 character touch pad screen.
- Seven Year Warranty



565 valve

- Simple user friendly 2 line / 32 character display
- Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- Seven Year Warranty



Assembled Engineered Systems

AIO Series Chemical Free Iron Filter Part #s

AIO CHEMICAL FREE IRON FILTER

89 Series 1" Downflow

Part #	Description	Weight (LBS)
15551000	Filter, HT89-75AIO, 8x44 Black	110
15551007	Filter, HT89-100AIO, 9x48 Black	145
15551014	Filter, HT89-150AIO, 10x54 Black	250
15551021	Filter, HT89DF-200AIO, 12x52 Black*	355
15551025	Filter, HT89DF-300AIO, 14x65 Natural*	455

565 Series

15550547	Filter, HT565-75AIO, 8x44 Black	110
15550554	Filter, HT565-100AIO, 9x48 Black	145
15550561	Filter, HT565-150AIO, 10x54 Black	250

765 Series

15550800	Filter, HT765-75AIO, 8x44 Black	110
15550807	Filter, HT765-100AIO, 9x48 Black	145
15550814	Filter, HT765-150AIO, 10x54 Black	250

AIOM CHEMICAL FREE IRON FILTER

Choose AIOM Models for low pH and/or high manganese applications.

89 Series 1" Downflow

Part #	Description	Weight (LBS)
15551027	Filter, HT89-75AIOM, 8x44 Black	110
15551034	Filter, HT89-100AIOM, 9x48 Black	145
15551041	Filter, HT89-150AIOM, 10x54 Black	250
15551048	Filter, HT89DF-200AIOM, 12x52 Black*	355
15551052	Filter, HT89DF-300AIOM, 14x65 Natural*	455

565 Series

15550568	Filter, HT565-75AIOM, 8x44 Black	110
15550575	Filter, HT565-100AIOM, 9x48 Black	145
15550582	Filter, HT565-150AIOM, 10x54 Black	250

765 Series

15550821	Filter, HT765-75AIOM, 8x44 Black	110
15550828	Filter, HT765-100AIOM, 9x48 Black	145
15550835	Filter, HT765-150AIOM, 10x54 Black	250

AIOC FILTER FOR HYDROGEN SULFIDE REDUCTION

89 Series 1" Downflow

Part #	Description	Weight (LBS)
15551054	Filter, HT89-75AIOC, 8x44 Black	110
15551061	Filter, HT89-100AIOC, 9x48 Black	145
15551068	Filter, HT89-150AIOC, 10x54 Black	250
15551075	Filter, HT89DF-200AIOC, 12x52 Black*	355
15551079	Filter, HT89DF-300AIOC, 14x65 Natural*	455

565 Series

15550747	Filter, HT565-75AIOC, 8x44 Black	110
15550754	Filter, HT565-100AIOC, 9x48 Black	145
15550761	Filter, HT565-150AIOC, 10x54 Black	250

765 Series

15550842	Filter, HT765-75AIOC, 8x44 Black	110
15550849	Filter, HT765-100AIOC, 9x48 Black	145
15550856	Filter, HT765-150AIOC, 10x54 Black	250

AIOB BIRM IRON FILTER

89 Series 1" Downflow

Part #	Description	Weight (LBS)
15551081	Filter, HT89-75AIOB, 8x44 Black	110
15551088	Filter, HT89-100AIOB, 9x48 Black	145
15551095	Filter, HT89-150AIOB, 10x54 Black	250
15551102	Filter, HT89DF-200AIOB, 12x52 Black*	355
15551106	Filter, HT89DF-300AIOB, 14x65 Natural*	455

565 Series

15550768	Filter, HT565-75AIOB, 8x44 Black	110
15550775	Filter, HT565-100AIOB, 9x48 Black	145
15550782	Filter, HT565-150AIOB, 10x54 Black	250

765 Series

15550869	Filter, HT765-75AIOB, 8x44 Black	110
15550876	Filter, HT765-100AIOB, 9x48 Black	145
15550883	Filter, HT765-150AIOB, 10x54 Black	250



Assembled Engineered Systems

NRV (Non-Regenerating Valve)

Whole House Carbon Filter

Economical Reduction of Chlorine, Chloramines and Other Bad Taste & Odors

Once water arrives safely at your home there is no further need for disinfectants. In fact they are undesirable! Disinfectants cause taste and bad odor, dry skin, damage plumbing, and can produce potentially harmful by-products.



*Clean, Clear
Odor Free
Water*



Assembled Engineered Systems

NRV (Non-Regenerating Valve)

Whole House Carbon Filter

Features:

- Economical whole-house carbon filtration solution for reducing chlorine and other bad tastes and odors. TOK models reduce chlorine plus hydrogen sulfide (H₂S) caused by sulphate reducing bacteria common in warmer climates.
- Includes factory installed one-piece bypass
- Time saving quick connect fittings (90° 3/4" NPT Elbows and 1" Straight NPT) included for faster, easier installation. Optional quick connect SharkBite® fittings also available.
- Five year warranty on Distribution Head.
- Ten Year Warranty on NSF Certified tank.

90° 3/4" NPT Elbows



Economical non-back-washing distribution head with convenient quick connect fittings

1" Straight NPT



Specifications	NRV TO-100 15054073	NRV TO-150 15054074	NRV TOK-100 15054075	NRV TOK-150 15054076
Peak Flow Rates	4.0 gpm	5.0 gpm	4.0 gpm	5.0 gpm
Filter Media Volume - Cubic Feet	1.0 ft ³	1.5 ft ³	1.0 ft ³	1.5 ft ³
Filter Tank Size	9 x 48	10 x 54	9 x 48	10 x 54
Media Type	Coconut Carbon	Coconut Carbon	Coconut Carbon With KDF Distributor	Coconut Carbon With KDF Distributor
Media Loaded	Yes	Yes	Yes	Yes
KDF Protector	No	No	Yes	Yes
Tank Jacket	No	No	No	No
Shipping Weight	60 lbs	78 lbs	60 lbs	78 lbs
Plumbing Connections	Includes 3/4" 90° Elbows & 1" Straight NPT. Bypass Included			
Electrical Requirements	None			
Water Temperature	Min 39 - Max. 100 degrees Fahrenheit			
Water Pressure	Max. 125 psi			

The life expectancy of the carbon media bed in these units will be reduced as compared to a back washing style carbon filter. The actual media bed life will vary depending on water consumption, chlorine/chloramines concentration and flow rate. Exceeding the peak flow rate listed above will drastically reduce the life expectancy of the carbon media.



Designed, Engineered &
Assembled in the U.S.A.

Assembled Engineered Systems

785/89HTO UpFlow Series Whole House Water Refining System

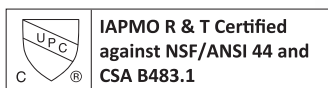
A Complete Water Refining System For Your Home

Rid your water of hardness minerals (calcium and magnesium) plus filter out bad tastes and odor caused by chlorine, chloramines or organic matter.

The unique two tank system keeps the two media beds separate, allowing for more carbon contact which greatly improves the removal of chlorine, chloramines and organics. Because the carbon typically needs to be replaced before the softening resin, the two tank system allows for easy cost effective replacement. You get the same benefit as a separate water softener and whole-house carbon filter for a much lower price as the single control valve operates both systems.

Now you can enjoy truly refined water throughout your home!

- Great tasting water
- Odor-free. No chlorine!
- Soft skin & silky hair
- Spot free dishes
- Brighter laundry
- Easier cleaning
- Protect plumbing & water-using appliances from scale build-up



*Soft, Clean
Truly Refined
Water*



DUAL TANK HTO - HARDNESS & TASTE & ODOR

Part #	Description
89 Series 1" Downflow	
15101000-1	HT89HTOUF-100, BTS-100 Black, 9x48 Black
15101018-1	HT89HTOUF-150, BTS-100 Black, 10x54 Black
15101036-1	HT89HTOUF-200, Black 12x52, BTR-145 Black
15101039-1	HT89HTOUF-250, Black 13x54, BTR-145 Black*
15101042-1	HT89HTOUF-300, Natural 14x65, BTR-200 Grey*
785 Series Upflow	
15101043-1	HT785HTOUF-100, BTS-100 Black, 9x48 Black
15101061-1	HT785HTOUF-150, BTS-100 Black, 10x54 Black
15101079-1	HT785HTOUF-200, Black 12x52, BTR-145 Black
15101082-1	HT785HTOUF-250, Black 13x54, BTR-145 Black*
15101085-1	HT785HTOUF-300, Natural 14x65, BTR-200 Grey*

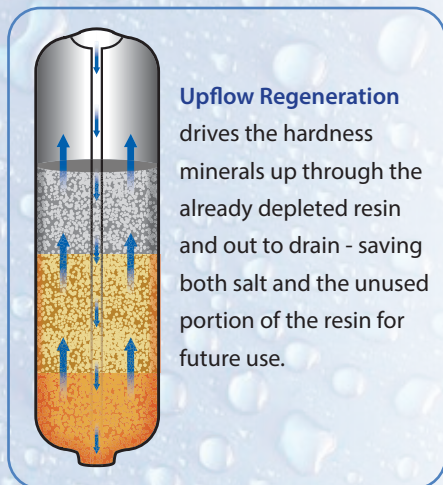


Assembled Engineered Systems

785/89HTO Upflow Specifications



785 valve



Features:

- Two tank carbon system keeps media beds separate, allowing for more carbon contact for improved chlorine, chloramines and organic removal
- Carbon can be replaced without replacing the resin bed
- Same benefit as separate systems but with cost of only one control valve
- Salt-efficient upflow regeneration
- Exclusive NSF Certified electronic control valve with seven year warranty featuring proven piston, seal & spacer technology
- Fully adjustable cycles allow customization to the most efficient settings based on specific water quality requirements
- Backlit LCD display screen with no confusing codes or symbols. The 89 Control features a large 4 line / 80 character touch pad screen. The 785 control features a 2 line / 32 character display with rotating information display (i.e. date last regenerated, volume remaining).
- NSF Certified fibreglass pressure tank with lifetime warranty
- High density polyethylene salt tank with lifetime warranty
- Brine safety valve for added overflow protection
- Plastic salt grid prevents salt bridging
- Space saving precision turbine meter
- Time saving quick connect fittings on brine line, drain line (with O-ring seal) and power cord for fast and easy installations

Options:

- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla



Specifications	HTO-100	HTO-150	HTO-200	HTO-250	HTO-300
Salt Used - Per Regeneration	6.0 lbs	9.0 lbs	12.0 lbs	15.0 lbs	18.0 lbs
Water Used - Regeneration	86.4 gal	148 gal	162.4 gal	216.0 gal	224.8 gal
Hardness Removal - Grains	25,000	37,500	50,000	67,500	75,000
Tank #1 Carbon Quantity (ft3)	1.0 ft	1.50 ft	2.0 ft	2.5 ft	3.0 ft
Tank #2 Resin Quantity (ft3)	1.0 ft	1.50 ft	2.0 ft	2.5 ft	3.0 ft
Tank Size	9x48	10x54	12x52	13x54	14x65
Tank Jacket / Media Loaded	Yes	Yes	No	No	No
Brine Tank (Inches)	BTR 18.1 x 34.5 BTS 15.0"x34.7	BTR 18.1 x 34.5 BTS 15.0"x34.7	20.3 x 37.4	20.3 x 37.4	23.0 x 40.5
Salt Storage Capacity	BTS 240 lbs BTR 270 lbs	BTS 240 lbs BTR 270 lbs	350 lbs	350 lbs	420 lbs
Flow Rate @ 15 psi Pressure Drop	7.2 gpm	7.4 gpm	9.0 gpm	9.2 gpm	9.2 gpm
Flow Rate @ 25 psi Pressure Drop	10.0 gpm	10.1 gpm	11.9 gpm	12.1 gpm	12.1 gpm
Back Wash Flow Rate	4.0 gpm	5.0 gpm	7.0 gpm	8.0 gpm	10.0 gpm
Shipping Weight	154 lbs	171 lbs	214 lbs	225 lbs	232 lbs
Regeneration Type	Up Flow				
Plumbing Connections	89 Model 1" Straight NPT. 785 Model 3/4" 90° Elbows & 1" Straight NPT				
Resin Type	Aquafine 8% cation exchange resin				
Carbon Type	Catalytic Carbon				
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA				
Water Temperature	Min 39 - Max. 100° F				
Water Pressure	Min. 20 - Max. 125 psi				



Also available with 89 valve

Brine Tank Included



Assembled Engineered Systems

765/565HTO Downflow Series Whole House Water Refining System

A Complete Water Refining System For Your Home

Rid your water of hardness minerals (calcium and magnesium) plus filter out bad tastes and odor caused by chlorine, chloramines or organic matter.

The unique two tank system keeps the two media beds separate, allowing for more carbon contact which greatly improves the removal of chlorine, chloramines and organics. Because the carbon typically needs to be replaced before the softening resin, the two tank system allows for easy cost effective replacement. You get the same benefit as a separate water softener and whole-house carbon filter for a much lower price as the single control valve operates both systems.

Now you can enjoy truly refined water throughout your home!

- ➔ Great tasting water
- ➔ Odor-free. No chlorine!
- ➔ Soft skin & silky hair
- ➔ Spot free dishes
- ➔ Brighter laundry
- ➔ Easier cleaning
- ➔ Protect plumbing & water-using appliances from scale build-up

*Soft, Clean
Truly Refined
Water*



DUAL TANK HTO - HARDNESS & TASTE & ODOR

Part #	Description
565 Series	
15101086-1	HT565HTO-100, BTS-100 Black, 9x48 Black
15101104-1	HT565HTO-150, BTS-100 Black, 10x54 Black
765 Series	
15101122-1	HT765HTO-100, BTS-100 Black, 9x48 Black
15101140-1	HT765HTO-150, BTS-100 Black, 10x54 Black



IAPMO R & T Certified
against NSF/ANSI 44 and
CSA B483.1

Assembled Engineered Systems

765/565HTO Downflow Specifications



765 valve

Features:

- Two tank carbon system keeps media beds separate, allowing for more carbon contact for improved chlorine, chloramines and organic removal
- Carbon can be replaced without replacing the resin bed
- Same benefit as separate systems but with cost of only one control valve
- Salt-efficient downflow regeneration
- Exclusive NSF Certified electronic control valve featuring proven piston, seal & spacer technology
- Fully adjustable cycles allow customization to the most efficient settings based on specific water quality requirements
- 565 Control comes with 7 Year Warranty / 765 Control comes with 5 Year Warranty
- NSF Certified fibreglass pressure tank with lifetime warranty
- High density polyethylene salt tank
- Brine safety valve for added overflow protection
- Plastic salt grid prevents salt bridging
- Unique precision turbine meter is incorporated in system bypass valve – saving over 4" of floor space
- Time saving quick connect fittings on brine line, drain line (with O-ring seal) and power cord for fast and easy installations

Options:

- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla



Tank Mate™
Patent Pending
Included with all systems

Specifications	HTO-100	HTO-150
Salt Used - Per Regeneration	6.0 lbs	9.0 lbs
Water Used - Regeneration	86.4 gal	148 gal
Hardness Removal - Grains	25,000	37,500
Tank #1 Carbon Quantity (ft3)	1.0 ft	1.50 ft
Tank #2 Resin Quantity (ft3)	1.0 ft	1.50 ft
Tank Size	9x48	10x54
Tank Jacket / Media Loaded	Yes	Yes
Brine Tank (Inches)	BTR 18.1 x 34.5 BTS 15.0 ² x34.7	BTR 18.1 x 34.5 BTS 15.0 ² x34.7
Salt Storage Capacity	BTS 240 lbs BTR 270 lbs	BTS 240 lbs BTR 270 lbs
Flow Rate @ 15 psi Pressure Drop	7.2 gpm	7.4 gpm
Flow Rate @ 25 psi Pressure Drop	10.0 gpm	10.1 gpm
Back Wash Flow Rate	4.0 gpm	5.0 gpm
Shipping Weight	154 lbs	171 lbs
Regeneration Type	Downflow	
Plumbing Connections	Includes 3/4" 90°Elbows & 1" Straight NPT	
Resin Type	Aquafine	
Carbon Type	Catalytic Carbon	
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA	
Water Temperature	Min 39 - Max. 100° F	
Water Pressure	Min. 20 - Max. 125 psi	



Brine Tank Included



Also available with 565 valve



Assembled Engineered Systems

Dual Pass Water Softener for High Hardness Applications

Many ground water supplies often have multiple problems that are not only an issue from an aesthetic standpoint but in terms of cost when pipes become clogged, fixtures stained and laundry discolored. Combination units use mixed beds of a variety of different medias to provide one solution for your water woes.

HEDP Series - High Hardness

Two tank system for high hardness (> 75ppg) water. First tank acts as workhorse significantly reducing hardness while second tank acts as polisher. Prevents hardness leakage common in single tank systems.

The second tank acts as a 'polisher' and reduces slippage as the overpowering high hardness condition has been significantly reduced. This also increases the contact time with the softener resin therefore more consistent soft water.

Salt efficiency is even more important on high hardness situations. The HEDP Series Softener offers salt-efficient upflow regeneration for ultimate salt savings.



*Soft,
Luxurious
Water*



DUAL TANK HEDP - HIGH HARDNESS DUAL PASS (> 75 GPG)

Part #	Description
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89 Series 1" Upflow

15101900-1	HT89HEDP-100, BTR-200 Grey, 9x48 Black
15101918-1	HT89HEDP-150, BTR-200 Grey, 10x54 Black
15101923-1	HT89HEDP-200, BTR-200 Grey, 12x52 Black
15101926-1	HT89HEDP-250, BTR-200 Grey*, 13x54 Black
15101929-1	HT89HEDP-300, BTR-200 Grey*, 14x65 Natural

785 Series Upflow

15101930-1	HT785HEDP-100, BTR-200 Grey, 9x48 Black
15101948-1	HT785HEDP-150, BTR-200 Grey, 10x54 Black
15101953-1	HT785HEDP-200, BTR-200 Grey, Black 12x52
15101956-1	HT785HEDP-250, BTR-200 Grey*, Black 13x54
15101959-1	HT785HEDP-300, BTR-200 Grey*, Natural 14x65

565 Series

15101960-1	HT565HEDP-100, BTR-200 Grey, 9x48 Black
15101978-1	HT565HEDP-150, BTR-200 Grey, 10x54 Black

765 Series

15101990-1	HT765HEDP-100, BTR-200 Grey, 9x48 Black
15102008-1	HT765HEDP-150, BTR-200 Grey, 10x54 Black



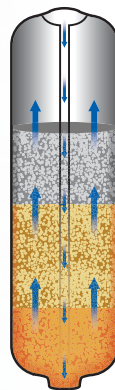
IAPMO R & T Certified
Against NSF/ANSI 44 and
CSA B483.1

Assembled Engineered Systems

HEDP Specifications

Features:

- Exclusive NSF Certified electronic control valve (systems available with Hydrotech 89, 785, 565 and 765 control valves)
- Two tank system provides softer, more consistent water quality and reduces hardness slippage or channeling which can occur in single tank systems
- Perfect for high hardness (typically > 75 gpg) residential and light commercial applications such as boiler feed systems
- More cost effective than larger single tank systems
- UpFlow Regeneration for ultimate salt efficiency (89/785 only)
- Soft water brine tank refill keeps system clean (89/785 only)
- NSF Certified control valve & pressure tank
- IAPMO certified cation resin
- Brine safety valve provides added overflow protection
- Plastic salt grid prevents bridging
- 48 hour self charging battery back-up
- Includes one-piece bypass integrated meter



Upflow Regeneration drives the hardness minerals up through the already depleted resin and out to drain - saving both salt and the unused portion of the resin for future use.

Options:

- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla

Specifications	HEDP-100	HEDP-150	HEDP-200	HEDP-250	HEDP-300
Salt Used - Per Regeneration	12.0 lbs	18.0 lbs	24.0 lbs	30.0 lbs	36.0 lbs
Water Used - Regeneration	86.4 gal	148 gal	162.4 gal	224.8 gal	259.2 gal
Hardness Removal - Grains	30,000	45,000	60,000	75,000	90,000
Tank #1 Resin Quantity (ft3)	1.0 ft	1.50 ft	2.0 ft	2.5 ft	3.0 ft
Tank #2 Resin Quantity (ft3)	1.0 ft	1.50 ft	2.0 ft	2.5 ft	3.0 ft
Tank Size	9x48	10x54	12x52	13x54	14x65
Tank Jacket / Media Loaded	Yes	Yes	No	No	No
Brine Tank Size (Inches)	23.0 x 40.5	23.0 x 40.5	23.0 x 40.5	29.1 x 50.2	29.1 x 50.2
Salt Storage Capacity	350 lbs	420 lbs	420 lbs	420 lbs	420 lbs
Flow Rate @ 15 psi Pressure Drop	7.2 gpm	7.4 gpm	9.0 gpm	9.2 gpm	9.3 gpm
Flow Rate @ 25 psi Pressure Drop	10.0 gpm	10.1 gpm	11.9 gpm	12.1 gpm	11.4 gpm
Back Wash Flow Rate	2.0 gpm	2.4 gpm	3.5 gpm	4.0 gpm	5.0 gpm
Shipping Weight	184 lbs	201 lbs	244 lbs	262 lbs	312 lbs
Regeneration Type	Up Flow (89 /785 Control); Downflow (565 / 765 Control)				
Plumbing Connections	89 Model 1" Straight NPT. Other Models 3/4" 90° Elbows & 1" Straight NPT				
Resin Type	Aquafine™ 8% High Capacity Ion Exchange Resin				
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA				
Water Temperature	Min 39 - Max. 100° F				
Water Pressure	Min. 20 - Max. 125 psi				



89 valve

- True 1" porting for high flow rates up to 18" systems. Ideal for larger homes.
- Large Backlit LCD display screen with 4 line / 80 character touch pad screen.
- Seven Year Warranty



785 valve

- High flow rates up to 16" systems.
- Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- Seven Year Warranty



565 valve

- Simple user friendly 2 line /32 character display
- Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- Seven Year Warranty
- Available in 100 and 150 sizes only



765 valve

- Simple electronics with index knob to manually initiate regeneration and select cycle position
- Five Year Warranty
- Available in 100 and 150 sizes only



Tank Mate™
Patent Pending
Included with all systems



Designed, Engineered & Assembled in the U.S.A.

Assembled Engineered Systems

Single Solution Systems For Multiple Water Problems

Many ground water supplies often have multiple problems that are not only an issue from an aesthetic standpoint but in terms of cost when pipes become clogged, fixtures stained and laundry discolored. Combination units use mixed beds of a variety of different medias to provide one solution for your water woes.

HIM Series - Hardness, Iron and Manganese

Rid your water of hardness minerals (calcium and magnesium) and enjoy soft skin, silky hair, spot free dishes and brighter laundry protecting your plumbing and water using appliances from scale build-up. Removing iron and manganese will keep fixtures from getting stained as well as removing the taste and smell.

*Soft, Clean
Truly Refined
Water*



HIM - HARDNESS, IRON, MANGANESE (SINGLE TANK SYSTEM)

Part #	Description
--------	-------------

89 Series 1" DownFlow

15102100	HT89HIM-100, BTS-100 Black, 9x48 Black
15102118	HT89HIM-150, BTR-145 Black, 10x54 Black
15102127	HT89HIM-200, Black 12x52, BTR-145 Black
15102130	HT89HIM-250, Black 13x54, BTR-145 Black*
15102133	HT89HIM-300, Natural 14x65, BTR-200 Grey*

785 Series Downflow

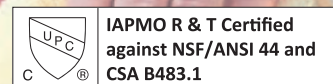
15102134	HT785HIM-100, BTS-100 Black, 9x48 Black
15102152	HT785HIM-150, BTR-145 Black, 10x54 Black
15102161	HT785HIM-200, Black 12x52, BTR-145 Black
15102164	HT785HIM-250, Black 13x54, BTR-145 Black*
15102167	HT785HIM-300, Natural 14x65, BTR-200 Grey*

565 Series

15102168	HT565HIM-100, BTS-100 Black, 9x48 Black
15102186	HT565HIM-150, BTR-145 Black, 10x54 Black
15102195	HT565HIM-200, Black 12x52, BTR-145 Black
15102198	HT565HIM-250, Black 13x54, BTR-145 Black*
15102201	HT565HIM-300, Natural 14x65, BTR-200 Grey*

765 Series

15102202	HT765HIM-100, BTS-100 Black, 9x48 Black
15102220	HT765HIM-150, BTR-145 Black, 10x54 Black
15102229	HT765HIM-200, Black 12x52, BTR-145 Black
15102232	HT765HIM-250, Black 13x54, BTR-145 Black*
15102235	HT765HIM-300, Natural 14x65, BTR-200 Grey*



Assembled Engineered Systems

Single Solution Specifications

Features:

- Exclusive NSF Certified electronic control valve (systems available with Hydrotech 89, 785, 565 and 765 control valves)
- User friendly LCD display with 48 hour memory back-up
- Fully adjustable cycles allow for the most efficient settings based on the specific water quality requirements
- NSF Certified fibreglass pressure tank
- High density polyethylene salt tank
- Brine safety valve for added overflow protection
- Plastic salt grid prevents salt bridging
- Unique precision turbine meter
- Time saving quick connect fittings on brine line, drain line (with O-ring seal) and power cord for fast and easy installations

Options:

- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla

Includes ResCare Feeder Plus 64 oz of ResCare



89 valve

- True 1" porting for high flow rates up to 18" systems. Ideal for larger homes.
- Large Backlit LCD display screen with 4 line / 80 character touch pad screen.
- Seven Year Warranty



785 valve

- High flow rates up to 16" systems.
- Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- Seven Year Warranty



565 valve

- Simple user friendly 2 line /32 character display
- Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- Seven Year Warranty



765 valve

- Simple electronics with index knob to manually initiate regeneration and select cycle position
- Five Year Warranty

Specifications	HIM-100	HIM-150	HIM-200	HIM-250	HIM-300
Factory Settings - Iron & Manganese					
Salt Used - Per Regeneration	12.0 lbs	18.0 lbs	24.0 lbs	30.0 lbs	36.0 lbs
Water Used - Regeneration	52.2 gal	74.4 gal	101.4 gal	130.5 gal	166 gal
Hardness Removal - Grains	30,000	45,000	60,000	75,000	90,000
Resin Quantity - Cubic Feet	1.0 ft	1.5 ft	2.0 ft	2.5 ft	3.0 ft
Tank Size	9x48	10x54	12x52	13x54	14x65
Media Loaded	Yes	Yes	No	No	No
Brine Tank Size (Inches)	BTR 18.1 x 34.5 BTS 15.0 ² x34.7	20.3 x 37.4	20.3 x 37.4	20.3 x 37.4	23.0 x 40.5
Salt Storage Capacity	BTS 240 lbs BTR 270 lbs	350 lbs	350 lbs	350 lbs	420 lbs
Flow Rate @ 15 psi Pressure Drop	11.0 gpm	11.2 gpm	12.2 gpm	12.4 gpm	12.6 gpm
Flow Rate @ 25 psi Pressure Drop	15.0 gpm	15.1 gpm	16.2 gpm	16.4 gpm	16.6 gpm
Back Wash Flow Rate	2.0. gpm	2.4 gpm	3.5 gpm	4.0 gpm	5.0 gpm
Shipping Weight	125 lbs	158 lbs	175 lbs	208 lbs	247 lbs
Regeneration Type	Co-Current / Down Flow				
Maximum Hardness	75 Grains Per Gallon				
Maximum Iron (Ferrous)	10 ppm				
Maximum Manganese	5 ppm				
Resin Type	Purolite® SST-60				
Plumbing Connections	Includes 3/4" 90°Elbows & 1" Straight NPT 89 model is 1" straights only				
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA				
Water Temperature	Min 39 - Max. 100° F				
Water Pressure	Min. 20 - Max. 125 psi				



Assembled Engineered Systems

Single Solution Systems For Multiple Water Problems

Single Solution Systems For Multiple Water Problems

Many ground water supplies often have multiple problems that are not only an issue from an aesthetic standpoint but in terms of cost when pipes become clogged, fixtures stained and laundry discolored. Combination units use mixed beds of a variety of different medias to provide one solution for your water woes.

TLC Series - Tannins, Lignin and Color


Tannins are caused by decaying organic matter which stain most materials it comes into contact with. The system uses anion exchange resin to remove color caused by organic decay - greatly improving aesthetics and preventing costly staining.

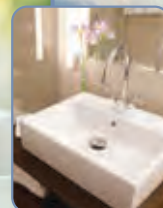
Clean, Clear,
Color-Free
Water

TLC- TANNINS, LIGNIN, COLOR (SINGLE TANK SYSTEM)

Part #	Description
89 Series 1" DownFlow	
15102300	HT89TLC-100, BTS-100 Black, 9x48 Black
15102318	HT89TLC-150, BTR-145 Black, 10x54 Black
15102327	HT89TLC-200, Black 12x52, BTR-145 Black
15102330	HT89TLC-250, Black 13x54, BTR-145 Black*
15102333	HT89TLC-300, Natural 14x65, BTR-200 Grey*
785 Series Downflow	
15102334	HT785TLC-100, BTS-100 Black, 9x48 Black
15102352	HT785TLC-150, BTR-145 Black, 10x54 Black
15102361	HT785TLC-200, Black 12x52, BTR-145 Black
15102364	HT785TLC-250, Black 13x54, BTR-145 Black*
15102367	HT785TLC-300, Natural 14x65, BTR-200 Grey*
565 Series	
15102368	HT565TLC-100, BTS-100 Black, 9x48 Black
15102386	HT565TLC-150, BTR-145 Black, 10x54 Black
15102395	HT565TLC-200, Black 12x52, BTR-145 Black
15102398	HT565TLC-250, Black 13x54, BTR-145 Black*
15102401	HT565TLC-300, Natural 14x65, BTR-200 Grey*
765 Series	
15102402	HT765TLC-100, BTS-100 Black, 9x48 Black
15102420	HT765TLC-150, BTR-145 Black, 10x54 Black
15102429	HT765TLC-200, Black 12x52, BTR-145 Black
15102432	HT765TLC-250, Black 13x54, BTR-145 Black*
15102435	HT765TLC-300, Natural 14x65, BTR-200 Grey*



 IAPMO R & T Certified
against NSF/ANSI 44 and
CSA B483.1



Assembled Engineered Systems

Single Solution Specifications

Features:

- Exclusive NSF Certified electronic control valve (systems available with Hydrotech 89, 785, 565 and 765 control valves)
- User friendly LCD display with 48 hour memory back-up
- Fully adjustable cycles allow for the most efficient settings based on the specific water quality requirements
- NSF Certified fibreglass pressure tank
- High density polyethylene salt tank
- Brine safety valve for added overflow protection
- Plastic salt grid prevents salt bridging
- Unique Precision Turbine Meter
- Time saving quick connect fittings on brine line, drain line (with O-ring seal) and power cord for fast and easy installations

Options:

- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla



89 valve

- True 1" porting for high flow rates up to 18" systems. Ideal for larger homes.
- Large Backlit LCD display screen with 4 line / 80 character touch pad screen.
- Seven Year Warranty



785 valve

- High flow rates up to 16" systems.
- Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- Seven Year Warranty



565 valve

- Simple user friendly 2 line /32 character display
- Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- Seven Year Warranty



765 valve

- Simple electronics with index knob to manually initiate regeneration and select cycle position
- Five Year Warranty

Specifications	TLC-100	TLC-150	TLC-200	TLC-250	TLC-300
Factory Settings - High Capacity					
Salt Used - Per Regeneration	12.0 lbs	18.0 lbs	24.0 lbs	30.0 lbs	36.0 lbs
Water Used - Per Regeneration	64.3 gal	90.3 gal	124.6 gal	160.8 gal	196.2 gal
Tannins Removal	2000 ppm	3000 ppm	4000 ppm	5000 ppm	6000 ppm
Resin Quantity - Cubic Feet	1.0 ft	1.5 ft	2.0 ft	2.5 ft	3.0 ft
Tank Size	9x48	10x54	12x52	13x54	14x65
Media Loaded	Yes	Yes	No	No	No
Brine Tank Size (Inches)	BTR 18.1 x 34.5 BTS 15.0 ² x34.7	20.3 x 37.4	20.3 x 37.4	20.3 x 37.4	23.0 x 40.5
Salt Storage Capacity	BTS 240 lbs BTR 270 lbs	350 lbs	350 lbs	350 lbs	420 lbs
Recommended Service Flow Rate	3.0 gpm	4.5 gpm	6.0 gpm	7.5 gpm	9.0 gpm
Flow Rate @ 15 psi Pressure Drop	11.0 gpm	11.2 gpm	12.2 gpm	12.4 gpm	12.6 gpm
Flow Rate @ 25 psi Pressure Drop	15.0 gpm	15.1 gpm	16.2 gpm	16.4 gpm	16.6 gpm
Back Wash Flow Rate	2.0 gpm	2.4 gpm	3.5 gpm	4.0 gpm	5.0 gpm
Shipping Weight	122 lbs	155 lbs	158 lbs	208 lbs	244 lbs
Regeneration Type	Counter-Current / Up Flow				
Maximum Tannins	3.0 ppm (Contact Customer Service for higher levels)				
Plumbing Connections	Includes 3/4" 90° Elbows & 1" Straight NPT 89 model is 1" straights only				
Resin Type	850 Anion Resin				
Electrical Requirements	Input 120V 60 Hz - Output 12V 550mA				
Water Temperature	Min 39 - Max. 100 degrees Fahrenheit				
Water Pressure	Min. 20 - Max. 125 psi				

Note: Call Customer Service to determine correct model. Water test results required. An acid neutralizer may be required after this based on water test results.



Assembled Engineered Systems

Single Solution Systems For Multiple Water Problems

Single Solution Systems For Multiple Water Problems

Many ground water supplies often have multiple problems that are not only an issue from an aesthetic standpoint but in terms of cost when pipes become clogged, fixtures stained and laundry discolored. Combination units use mixed beds of a variety of different medias to provide one solution for your water woes.

HIMTLC Series - Hardness, Iron, Manganese & Tannins

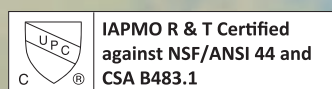
Rid your water of hardness minerals (calcium and magnesium) and enjoy soft skin, silky hair, spot free dishes and brighter laundry while protecting your plumbing and water using appliances from scale build-up.

Removing iron and manganese will keep fixtures from getting stained as well as removing the taste and smell.

Tannins, caused by decaying organic matter, are normally found in surface water systems and cause a yellow or brown color in the water that does not settle and will stain laundry.



Tank Mate™
Patent Pending
Included with all systems



Assembled Engineered Systems

Single Solution Specifications

Features:

- ➔ Exclusive NSF Certified electronic control valve (systems available with Hydrotech 89, 785, 565 and 765 control valves)
- ➔ Two tank system uses high quality anion and cation resin to remove hardness, iron, manganese and tannins
- ➔ NSF Certified control valve with simple, backlit electronics. No confusing symbols
- ➔ NSF Certified pressure tanks
- ➔ Plastic salt grid prevents salt bridging
- ➔ Brine safety valve for added overflow protection
- ➔ Unique space saving bypass valve included



89 valve

- ➔ True 1" porting for high flow rates up to 18" systems. Ideal for larger homes.
- ➔ Large Backlit LCD display screen with 4 line / 80 character touch pad screen.
- ➔ Seven Year Warranty



785 valve

- ➔ High flow rates up to 16" systems.
- ➔ Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- ➔ Seven Year Warranty



565 valve

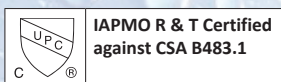
- ➔ Simple user friendly 2 line / 32 character display
- ➔ Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- ➔ Seven Year Warranty
- ➔ Available in 100 and 150 sizes only



765 valve

- ➔ Simple electronics with index knob to manually initiate regeneration and select cycle position
- ➔ Five Year Warranty
- ➔ Available in 100 and 150 sizes only

Specifications	HIMTLC-100 850	HIMTLC-150 850	HIMTLC-200 850	HIMTLC-250 850
	HIMTLC-100 860	HIMTLC-150 860	HIMTLC-200 860	HIMTLC-250 860
Salt Used - Per Regeneration	12.0 lbs	18.0 lbs	24.0 lbs	30.0 lbs
Water Used - Regeneration	64.3 gal	90.3 gal	124.6 gal	160.8 gal
Hardness Removal - Grains	30,000	45,000	60,000	75,000
Tannins Removal	2000 ppm	3000 ppm	4000 ppm	5,000 ppm
Tank #1 Resin Quantity - Cubic Feet	1.0 ft	1.5 ft	2.0 ft	2.5 ft
Tank #2 Resin Quantity - Cubic Feet	1.0 ft	1.5 ft	2.0 ft	2.5 ft
Tank Size	9x48	10x54	12x52	13x54
Media Loaded	Yes	Yes	No	No
Brine Tank Size (Inches)	15.0"x34.7	20.3 x 37.4	20.3 x 37.4	20.3 x 37.4
Salt Storage Capacity	270 lbs	350 lbs	350 lbs	350 lbs
Recommended Service Flow Rate	3.0 gpm	4.5 gpm	6.0 gpm	7.5 gpm
Flow Rate @ 15 psi Pressure Drop	7.3 gpm	7.5 gpm	8.3 gpm	12.4 gpm
Flow Rate @ 25 psi Pressure Drop	10.0 gpm	10.1 gpm	11.1 gpm	16.4 gpm
Back Wash Flow Rate	2.0 gpm	2.4 gpm	3.5 gpm	4.0 gpm
Shipping Weight	125 lbs	158 lbs	161 lbs	208 lbs
Regeneration Type	89 and 785 - Upflow / 565 and 765 - Downflow			
Maximum Hardness	75 Grains Per Gallon			
Maximum Tannins	3.0 ppm (Contact Customer Service for higher levels)			
Maximum Iron (Ferrous)	1.5 ppm			
Maximum Manganese	0.75 ppm			
Resin Type	SST 60 Cation / 850 or 860 Anion Resin			
Plumbing Connections	765, 565 and 785 - includes 3/4" 90 degree elbows and 1" straight connectors 89 - Includes 1" 90 degree elbows and straight connectors			
Electrical Requirements	Input 120V 60 Hz - Output 12V 550mA			
Water Temperature	Min 39 - Max. 100° F			
Water Pressure	Min. 20 - Max. 125 psi			



Includes ResCare Feeder Plus 64 oz of ResCare



Assembled Engineered Systems

Single Solution Systems For Multiple Water Problems

Many ground water supplies often have multiple problems that are not only an issue from an aesthetic standpoint but in terms of cost when pipes become clogged, fixtures stained and laundry discolored. Combination units use mixed beds of a variety of different medias to provide one solution for your water woes.

HIMTLC PLUS Series - Hardness, Iron, Manganese, Natural Organic Matter (including Tannins) and Ammonium Removal

Rid your water of hardness minerals (calcium and magnesium) and enjoy soft skin, silky hair, spot free dishes and brighter laundry while protecting your plumbing and water using appliances from scale build-up.

Removing iron and manganese will keep fixtures from getting stained as well as removing the taste and smell.

Tannins, caused by decaying organic matter, are normally found in surface water systems and cause a yellow or brown color in the water that does not settle and will stain laundry.

Ammonium, often found as a by-product in water disinfected with chloramines, is undesirable and can cause bad taste and odor.



Clean,
Clear
Soft Water



SINGLE TANK HIMTLCPLUS - HARDNESS, IRON, MANGANESE, TANNINS, LIGNIN, COLOR & AMMONIA

Part #	Description
--------	-------------

89 Series 1" DownFlow

15101218-P	HT89HIMTLCPLUS-150, BTR-145 Black, 10x54 Black
15101227-P	HT89HIMTLCPLUS-200, Black 12x52, BTR-145 Black
15101230-P	HT89HIMTLCPLUS-250, Black 13x54, BTR-145 Black*
15101233-P	HT89HIMTLCPLUS-300, Natural 14x65, BTR-200 Grey*

785 Series Downflow

15101286-P	HT785HIMTLCPLUS-150, BTR-145 Black, 10x54 Black
15101295-P	HT785HIMTLCPLUS-200, Black 12x52, BTR-145 Black
15101298-P	HT785HIMTLCPLUS-250, Black 13x54, BTR-145 Black*
15101301-P	HT785HIMTLCPLUS-300, Natural 14x65, BTR-200 Grey*

565 Series

15101354-P	HT565HIMTLCPLUS-150, BTR-145 Black, 10x54 Black
15101363-P	HT565HIMTLCPLUS-200, Black 12x52, BTR-145 Black
15101366-P	HT565HIMTLCPLUS-250, Black 13x54, BTR-145 Black*
15101369-P	HT565HIMTLCPLUS-300, Natural 14x65, BTR-200 Grey*

765 Series

15101422-P	HT765HIMTLCPLUS-150, BTR-145 Black, 10x54 Black
15101431-P	HT765HIMTLCPLUS-200, Black 12x52, BTR-145 Black
15101434-P	HT765HIMTLCPLUS-250, Black 13x54, BTR-145 Black*
15101437-P	HT765HIMTLCPLUS-300, Natural 14x65, BTR-200 Grey*

*Do NOT use Pro Res Care with these units as it will damage the special media.



IAPMO R & T Certified
against NSF/ANSI 44 and
CSA B483.1

Assembled Engineered Systems

Single Solution Specifications

Features:

- ➔ Exclusive NSF Certified electronic control valve (systems available with Hydrotech 89, 785, 565 and 765 control valves)
- ➔ NSF Certified control valve with simple, backlit electronics. No confusing symbols!
- ➔ NSF Certified pressure tanks
- ➔ Plastic salt grid prevents salt bridging
- ➔ Brine safety valve for added overflow protection
- ➔ Unique space saving bypass valve included



89 valve

- ➔ True 1" porting for high flow rates up to 18" systems. Ideal for larger homes.
- ➔ Large Backlit LCD display screen with 4 line / 80 character touch pad screen.
- ➔ Seven Year Warranty



785 valve

- ➔ High flow rates up to 16" systems.
- ➔ Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- ➔ Seven Year Warranty

Specifications	HIMTLCPLUS-150	HIMTLCPLUS-200	HIMTLCPLUS-250	HIMTLCPLUS-300
Salt Used - Per Regeneration	9.0 lbs	12.0 lbs	15.0 lbs	18.0 lbs
Water Used - Regeneration	74.6 gal	98.9 gal	126.6 gal	153.0 gal
Hardness Removal - Grains	17,100	22,800	28,500	34,200
Advanced Exchange Media (ft3)	1.32ft	1.76 ft	2.20 ft	2.64 ft
Tank Size	10x54	12x52	13x54	14x65
Top Cone	Yes	Yes	Yes	Yes
Tank Jacket / Media Loaded	Yes	No	No	No
Brine Tank (Inches)	20.3 x 37.4	20.3 x 37.4	20.3 x 37.4	23.0 x 40.5
Salt Storage Capacity	350 lbs	350 lbs	350 lbs	420 lbs
Critical Service Flow Rate	4-6 gpm	6-8 gpm	8-10 gpm	10-12 gpm
Back Wash Flow Rate	2.4 gpm	4.0 gpm	5.0 gpm	7.0 gpm
Shipping Weight	141 lbs	158 lbs	198 lbs	244 lbs
pH	5-9			
Other	Free Chlorine < 1 ppm, TDS < 4000 ppm			
Regeneration Type	Down Flow			
Plumbing Connections	Includes 3/4" 90°Elbows & 1" Straight NPT			
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA			
Water Temperature	Min 39 - Max. 100° F			
Water Pressure	Min. 20 - Max. 125 psi			

The HIMTLC PLUS needs to be used on well water where the well is greater than 140 feet deep. CALL CUSTOMER SERVICE TO DETERMINE CORRECT MODEL. WATER TEST RESULTS REQUIRED.

Raw Water Quality Requirements and Efficiency of Purification

Parameters	Influent limitations	Max. Efficiency, %
Hardness	45 gpg	97
Iron*	4 ppm	98
Manganese	2 ppm	98
TOC** (including tannins)	3 ppm	98
Ammonium	4 ppm	90

*All installations require 5 micron pre-filter to be installed prior to this unit. We recommend our 10" or 20" Big Value filter housings with a 5 micron cartridge. If ferric iron levels exceed 3ppm, or high volumes of sediment/turbidity is also present, a regenerating nexsand or multi-media filter should be installed prior to this unit.

**TOC (total organic carbon) is used as a measure of natural organic matter content



565 valve

- ➔ Simple user friendly 2 line /32 character display
- ➔ Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- ➔ Seven Year Warranty



765 valve

- ➔ Simple electronics with index knob to manually initiate regeneration and select cycle position
- ➔ Five Year Warranty

Do NOT use Pro Res Care or other media cleaners with these units as it will damage the media



Designed, Engineered & Assembled in the U.S.A.

Assembled Engineered Systems

Single Solution Systems For Multiple Water Problems

Many ground water supplies often have multiple problems that are not only an issue from an aesthetic standpoint but in terms of cost when pipes become clogged, fixtures stained and laundry discolored. Combination units use mixed beds of a variety of different medias to provide one solution for your water woes.

MBHTO Series - Hardness, Taste and Odor

Remove unpleasant tastes and odor caused by chlorine and organics while also softening your water with a mixed bed of carbon and cation exchange resin.

*Soft, Clean
Truly Refined
Water*



MBHTO - MIXED BED HARDNESS, TASTE, ODOR (SINGLE TANK SYSTEM)

Part #	Description
89 Series 1" Upflow	
15102500	HT89MBHTO-75, BTS-100 Black, 8x44 Black
15102518	HT89MBHTO-100, BTS-100 Black, 9x48 Black
15102536	HT89MBHTO-150, BTS-100 Black, 10x54 Black
785 Series Upflow	
15102554	HT785MBHTO-75, BTS-100 Black, 8x44 Black
15102572	HT785MBHTO-100, BTS-100 Black, 9x48 Black
15102590	HT785MBHTO-150, BTS-100 Black, 10x54 Black
565 Series	
15102608	HT565MBHTO-75, BTS-100 Black, 8x44 Black
15102626	HT565MBHTO-100, BTS-100 Black, 9x48 Black
15102644	HT565MBHTO-150, BTS-100 Black, 10x54 Black
765 Series	
15102662	HT765MBHTO-75, BTS-100 Black, 8x44 Black
15102680	HT765MBHTO-100, BTS-100 Black, 9x48 Black
15102698	HT765MBHTO-150, BTS-100 Black, 10x54 Black



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Assembled Engineered Systems

Single Solution Specifications

Features:

- Exclusive NSF Certified electronic control valve (systems available with Hydrotech 89, 785, 565 and 765 control valves)
- User friendly LCD display with 48 hour memory back-up
- Fully adjustable cycles allow for the most efficient settings based on the specific water quality requirements
- NSF Certified fibreglass pressure tank
- High density polyethylene salt tank
- Brine safety valve for added overflow protection
- Plastic salt grid prevents salt bridging
- Unique precision turbine meter is incorporated in system bypass valve – saving space over 4" of floor space
- Time saving quick connect fittings on brine line, drain line (with O-ring seal) and power cord for fast and easy installations

Options:

- Pressure tanks in black, blue or natural
- Tank jackets with black caps in chrome, grey, blue or vanilla

Specifications	MBHTO-75	MBHTO-100	MBHTO-150
Capacity			
@ 10 LBS	15,900	21,200	31,800
@ 6 LBS (Factory Setting)	13,200	17,600	26,400
@ 3 LBS	8,400	11,200	16,800
Resin (ft3)	0.60	0.80	1.20
Carbon (ft3)	0.15	0.20	0.30
Tank Size	8x44	9x48	10x54
Media Loaded	Yes	Yes	Yes
Brine Tank Size (Inches)	BTR 18.1 x 34.5 BTS 15.0 ² x34.7	BTR 18.1 x 34.5 BTS 15.0 ² x34.7	BTR 18.1 x 34.5 BTS 15.0 ² x34.7
Salt Storage Capacity	BTS 240 lbs BTR 270 lbs	BTS 240 lbs BTR 270 lbs	BTS 240 lbs BTR 270 lbs
Service Flow Rate (USGPM)	8.0	10.0	12.0
Back Wash Flow Rate (USGPM)	1.5	2.0	2.4
Shipping Weight (not incl jacket)	93	110	141
Regeneration Type	Up Flow (89 /785 Control); Downflow (565 / 765 Control)		
Plumbing Connections	Includes 3/4" 90° Elbows & 1" Straight NPT 89 model is 1" straights only		
Resin Type	Aquafine™ 8% High Capacity Ion Exchange Resin		
Carbon Type	Activated Carbon		
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA		
Water Temperature	Min 39 - Max. 100° F		
Water Pressure	Min. 20 - Max. 125 psi		



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565 valve

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765 valve

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- Five Year Warranty

