

Water Softener & Filter

Water Softener with Iron, Manganese and Natural Organic (Tannin) Reduction Featuring 1" Porting

The HIMTLC Series two-tank system tackles multiple water problems with a single solution. Engineered for efficiency, it combines water softening with tannin reduction capabilities. The system effectively reduces iron, manganese, and tannins, improving water taste, odor, and clarity while preventing staining on laundry, fixtures, and plumbing. Built to meet rigorous third-party performance standards, the HIMTLC system ensures reliable protection and long-term performance.



KEY FEATURES

Maximum Hardness: Softens up to 75 grains per gallon of hardness.

Maximum Tannins: 3.0 ppm (contact Customer Service for higher levels).

Maximum Total Iron: Removes 10.0 ppm total iron in water with a pH below 7.2 and 7.0 ppm total iron in water with a pH above 7.2.

Total Iron Calculation = (Iron ppm x 1) + (Manganese ppm x 2).

Maximum Manganese: 5.0 ppm (see total iron calculation).

Tank Features: Brine tank with safety float, air check and injection molded brine grid to reduce salt bridging. Optional neoprene pressure tank jacket.

**INCLUDES
PRO EASY
FEEDER
STARTER KIT**

VALVE FEATURES

True 1" Porting: For high-flow applications.

1" 90-Degree Elbows: Included for easy installation.

Timesaving Quick Connect Fittings: Quick connect fittings on bypass, drain line (10' included), brine line and power cord. Bypass included.

TankMate™: Unique design sends water through both tanks in a single pass.



Four Line Touch Pad LCD Display:

No-touch rotating information display. Just set the time and date.

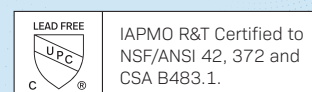
48-Hour Programming Memory: Automatic programming restore for up to 48 hours during power loss.



CONTROL
VALVE



TANKS



IAPMO R&T Certified to
NSF/ANSI 42, 372 and
CSA B483.1.

Technical Specifications

PROFESSIONALLY ENGINEERED FOR PERFORMANCE

MODEL NUMBER	89UF-100HIMTLC	89UF-150HIMTLC	89UF-200HIMTLC	89UF-250HIMTLC	89UF-300HIMTLC
Purolite 850 Models*	15101200-1	15101218-1	15101227-1		
Purolite 860 Models*	15101234-1	15101252-1	15101261-1	15101264-1	15101267-1
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 Per Regeneration	64.3 gal	90.3 gal	124.6 gal	160.8 gal	196.2 gal
Hardness Removal - Grains	30,000	45,000	60,000	75,000	90,000
Tannins Removal	2,000 ppm	3,000 ppm	4,000 ppm	5,000 ppm	6,000 ppm
Tank #1 Resin Quantity - Cubic Feet	1.0 ft ³	1.5 ft ³	2.0 ft ³	2.5 ft ³	3.0 ft ³
Tank #2 Resin Quantity - Cubic Feet	1.0 ft ³	1.5 ft ³	2.0 ft ³	2.5 ft ³	3.0 ft ³
Tank Size	10 x 54	12 x 52	13 x 54	14 x 65	14 x 65
Media Loaded	Yes	Yes	Yes	No	No
Salt Storage Capacity	270 lbs	350 lbs	350 lbs	420 lbs	420 lbs
Recommended Service Flow Rate	3.0 US gpm	4.5 US gpm	6.0 US gpm	7.5 US gpm	9.0 US gpm
Flow Rate @ 15 psi Pressure Drop	7.3 US gpm	7.5 US gpm	8.3 US gpm	8.5 US gpm	9.3 US gpm
Flow Rate @ 25 psi Pressure Drop	10.0 US gpm	10.1 US gpm	11.1 US gpm	11.2 US gpm	11.4 gpm
Backwash Flow Rate	2.4 US gpm	3.5 US gpm	5.0 US gpm	5.0 US gpm	5.0 US gpm
Shipping Weight	200 lbs	272 lbs	358 lbs	440 lbs	514 lbs
Regeneration Type	UPFLOW (COUNTER CURRENT)				
Maximum Hardness	75 GRAINS PER GALLON				
Maximum Tannins	3.0 PPM (CONTACT CUSTOMER SERVICE FOR HIGHER LEVELS)				
"Maximum Total Iron (Ferrous) Total Iron = (Iron ppm x 1) + (Manganese ppm x 2)"	"10.0 PPM TOTAL IRON FOR PH < 7.2 7.0 PPM TOTAL IRON FOR PH >= 7.2"				
Maximum Manganese	5.0 ppm				
Resin Type	AQUAFINE® FINE MESH ION EXCHANGE RESIN / Purolite® 850 OR 860 ANION RESIN				
Plumbing Connections	INCLUDES 1" 90° NPT ELBOWS				
Electrical Requirements	INPUT 120V 60 Hz - OUTPUT 12V 650mA				
Water Temperature Limits	MIN 40° - MAX 110° F (4° - 43° C)				
Water Pressure Limits	MIN 30 - MAX 125 PSI (207 - 862 KPA)				

* CALL CUSTOMER SERVICE TO DETERMINE CORRECT MODEL. WATER TEST RESULTS REQUIRED.

Above units supplied with easy feeder and 64oz bottle of Rescare.

Not intended for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Peak flow rates are intended for intermittent use only (10 minutes or less) and are for residential applications only. Do not use peak flow rate for commercial applications or for a continuous rate when treated water supplies are geothermal heat pump, swimming pool, etc. For satisfactory operation, the pumping rate of the well system must equal or exceed indicated backwash flow rate.

Contact Customer Service or Your sales representative for application guidelines.

DIMENSIONS

NVO489UFSIMTAN	100	150	200	250	300
TANK/VALVE A x B (inches)	60 x 23	66 x 24	64 x 26	66 x 33	78 X 34
BRINE TANK* C x D (inches)	15 x 34	20 x 37	20 x 37	20 x 37	23 x 40

*Square brine tanks are supplied with 100-models; 150 - 300 models include round brine tanks.



Homeowner's
Manual



Installation
Guide



Maintenance
Guide



Troubleshooting
Guide



Parts
Breakdown



Programming
Guide



Warranty



PROUD
MEMBERS



Toll-Free: 877-288-9888 | hydrotechwater.com | Regina, SK • Cambridge, ON • Whitestown, IN • Houston, TX • Phoenix, AZ • Guadalajara, MX