

Whole Home Softener & Filter

Water Softener with 1" Porting and Iron & Manganese Removal

The 89DF-HIM Series system offers a cost-effective and reliable solution for treating hard water and removing iron contamination. Third-party certified for iron removal, the HIM uses fine mesh ion exchange resin to remove clear water iron and manganese while softening water.



KEY FEATURES

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

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.

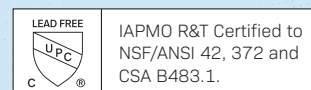
1" 90-Degree Elbows: Included for easy installation.

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



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.



Technical Specifications

PROFESSIONALLY ENGINEERED FOR PERFORMANCE

MODEL NUMBER	HT89DF-100HIM	HT89DF-150HIM	HT89DF-200HIM	HT89DF-250HIM	HT89DF-300HIM
Item Number	15102100	15102118	15102127	15102130	15102133
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	124.0 gal $\pm$ 10%	215.0 gal $\pm$ 10%	274.0 gal $\pm$ 10%	276.0 gal $\pm$ 10%	278.0 gal $\pm$ 10%
Hardness Removal (Grains)	30,000	45,000	60,000	75,000	90,000
Filter Media Volume - Cubic Feet	1.0 ft ³	1.5 ft ³	2.0 ft ³	2.5 ft ³	3.0 ft ³
Garnet	Yes	Yes	Yes	Yes	Yes
Pressure Tank Size (Inches)	10 x 54	12 x 52	13 x 54	14 x 65	14 x 65
Media Loaded	Yes	Yes	No	No	No
Salt Storage Capacity	270 lbs	350 lbs	350 lbs	350 lbs	420 lbs
Flow Rate @ 15 psi Pressure Drop	11.0 US gpm	11.2 US gpm	12.2 US gpm	12.4 US gpm	12.6 US gpm
Flow Rate @ 25 psi Pressure Drop	15.0 US gpm	15.1 US gpm	16.2 US gpm	16.4 US gpm	16.6 US gpm
Backwash Flow Rate	2.5 US gpm	3.5 US gpm	5.0 US gpm	5.0 US gpm	5.0 US gpm
Shipping Weight	120 lbs	161 lbs	214 lbs	250 lbs	300 lbs
Regeneration Type	DOWNFLOW (COCURRENT)				
Maximum Hardness	75 GRAINS PER GALLON				
Maximum Total Iron (Ferrous)	10.0 PPM TOTAL IRON FOR PH < 7.2				
Total Iron = (Iron ppm x 1) + (Manganese ppm x 2)	7.0 PPM TOTAL IRON FOR PH $\geq$ 7.2				
Maximum Manganese (See Total Iron)	5.0 ppm				
Resin Type	AQUAFINE® FINE MESH ION EXCHANGE 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)				

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.

DIMENSIONS

89DFHIM	100	150	200	250	300
TANK/VALVE A x B (inches)	63 x 10	61 x 12	63 x 13	75 x 14	75 x 14
BRINE TANK C x D (inches)	15 x 34	20 x 37	20 x 37	20 x 37	23 x 40



Homeowner's
Manual



Installation
Guide



Maintenance
Guide



Troubleshooting
Guide



Parts
Breakdown



Programming
Guide



Warranty



PROUD
MEMBERS



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