

NVO485UFSIMTAN SPECIFICATION SHEET







INCLUDES PRO EASY FEEDER STARTER KIT





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

Water Softener

Water Softener with Iron, Manganese and Natural **Organic (Tannin) Reduction**

The SIMTAN 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 SIMTAN 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).

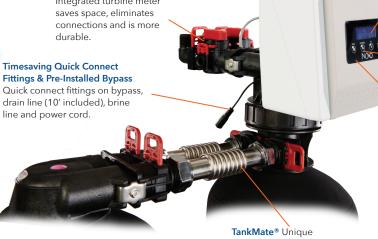
Tank Features: Brine tank with safety float, air check and injection molded brine grid to reduce bridging. Moisture wicking neoprene tank jacket included on all pressure tanks.

VALVE FEATURES

Unique Bypass Design

Integrated turbine meter saves space eliminates connections and is more

drain line (10' included), brine line and power cord.



design sends water through both the anion and cation resin tanks in a single pass.

Backlit LCD Display

"No Touch" display rotates key information including last regeneration date and volume remaining.

User-Friendly

Programming Just set the time, date, number of people and hardness.

48-Hour Programming Memory

Automatic programming restore for up to 48 hours during power



Technical Specifications

PROFESSIONALLY ENGINEERED FOR PERFORMANCE

MODEL NUMBER	NVO485UFSIMTAN-100	NVO485UFSIMTAN-150	NVO485UFSIMTAN-200	NVO485UFSIMTAN-300		
Purolite 850 Models*	15020480-1	15020481-1	15020482-1	15020483-1		
Purolite 860 Models*	15021480-1	15021481-1	15021482-1	15021483-1		
	FACTORY SETTINGS - IRON & MANGANESE					
Salt Used Per Regeneration	12.0 lbs	18.0 lbs	24.0 lbs	36.0 lbs		
Water Used Per Regeneration	64.3 gal	90.3 gal	124.6 gal	196.2 gal		
Hardness Removal (Grains)	30,000	45,000	60,000	90,000		
Tannins Removal	2,000 ppm	3,000 ppm	4,000 ppm	6,000 ppm		
Tank #1 Resin Quantity (Cubic Feet)	1.0 ft ³	1.5 ft³	2.0 ft ³	3.0 ft ³		
Tank #2 Resin Quantity (Cubic Feet)	1.0 ft ³	1.5 ft ³	2.0 ft ³	3.0 ft ³		
Tank Size	10 x 54	12 x 52	13 x 54	14 x 65		
Media Loaded	Yes	Yes	Yes	No		
Salt Storage Capacity	270 lbs	350 lbs	350 lbs	420 lbs		
Recommended Service Flow Rate	3.0 US gpm	4.5 US gpm	6.0 US gpm	9.0 US gpm		
Flow Rate @ 15 psi Pressure Drop	7.3 US gpm	7.5 US gpm	8.3 US gpm	9.3 US gpm		
Flow Rate @ 25 psi Pressure Drop	10.0 US gpm	10.1 US gpm	11.1 US gpm	11.4 gpm		
Backwash Flow Rate	2.4 US gpm	4.0 US gpm	5.0 US gpm	5.0 US gpm		
Shipping Weight	200 lbs	272 lbs	358 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 3/4" 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.

DIMENSIONS

NVO485UFSIMTAN	100	150	200	300
TANK/VALVE A x B (inches)	60.0 x 23.0	66.0 x 24.0	64.0 x 26.0	78.0 x 34.0
BRINE TANK C x D (inches)	18.1 x 34.5	20.3 x 37.4	20.3 x 37.4	23.0 x 40.5











Maintenance Guide



Trouble Shooting Guide



Parts Breakdown



Programming Guide



Warranty Sheet











