



CONTROL  
VALVE



PRESSURE  
TANK



**INCLUDES PRO  
EASY FEEDER  
STARTER KIT**



## 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 durable.

##### Timesaving Quick Connect Fittings & Pre-Installed Bypass

Quick connect fittings on bypass, drain line (10' included), brine line and power cord.



##### 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 loss.

**TankMate<sup>®</sup>** Unique design sends water through both the anion and cation resin tanks in a single pass.



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

# 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 <sup>3</sup>	1.5 ft <sup>3</sup>	2.0 ft <sup>3</sup>	3.0 ft <sup>3</sup>
Tank #2 Resin Quantity (Cubic Feet)	1.0 ft <sup>3</sup>	1.5 ft <sup>3</sup>	2.0 ft <sup>3</sup>	3.0 ft <sup>3</sup>
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)	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 >= 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)			

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

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



## QUICK LINKS



Homeowner's Manual



Installation Guide



Maintenance Guide



Trouble Shooting Guide



Parts Breakdown



Programming Guide



Warranty Sheet

