

# Novo 485 SIM Series

## SIM Series

### Softener, Iron and Manganese Combination Removal

Combining proven water softener capabilities with the ability to remove both iron, the SIM Series system provides an effective and economical solution to hard and iron contaminated water. Hard water contains dissolved calcium and magnesium which build up inside your water heater, plumbing fixtures and appliances. The minerals also react with soap to form a scum which appears as bathtub ring, greys your laundry and leaves your hair dull and your skin itchy. Iron water leaves yellow, orange or brown stains on your laundry, sinks, tubs and toilets.

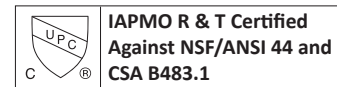
The SIM Series system contains a bed of fine mesh ion exchange resin beads. As water passes through the bed, calcium and magnesium, the hardness minerals, and any clear water iron are removed and held by the resin.

Eventually, the resin beads become saturated and must be regenerated. A brine solution is drawn into the bed to drive out the accumulated minerals. This process is called ion exchange. After the minerals and brine are rinsed out with fresh water, the regenerated resin is ready to soften your water again. The demand regeneration control valve includes a metering system which monitors your soft water use, regenerating only when necessary based on your water usage. Consequently, you save salt, water and money.



Specifications	NVO485DFSIM-100	NVO485DFSIM-150	NVO485DFSIM-200	NVO485DFSIM-300*
	15010460	15010461	15010462	15010463
<b>Factory Settings - Iron &amp; Manganese</b>				
Salt Used - Per Regeneration	12.0 lbs	18.0 lbs	24.0 lbs	36.0 lbs
Water Used - Regeneration	124 gal ± 10%	215 gal ± 10%	274 gal ± 10%	278 gal ± 10%
Hardness Removal - Grains	30,000	45,000	60,000	90,000
Filter Media Volume (ft <sup>3</sup> )	1.0 ft <sup>3</sup>	1.5 ft <sup>3</sup>	2.0 ft <sup>3</sup>	3.0 ft <sup>3</sup>
Garnet	Yes	Yes	Yes	Yes
Tank Size	10x54	12x52	13x54	14x65
Tank Jacket	Yes	Yes	No	No
Media Loaded	Yes	Yes	No	No
Brine Tank Size (Inches)	18.1 x 34.5	20.3 x 37.4	20.3 x 37.4	23.0 x 40.5
Salt Storage Capacity	240 lbs	350 lbs	350 lbs	420 lbs
Flow Rate @ 15 psi Pressure Drop	11.0 gpm	11.2 gpm	12.2 gpm	12.6 gpm
Flow Rate @ 25 psi Pressure Drop	15.0 gpm	15.1 gpm	16.2 gpm	16.6 gpm
Back Wash Flow Rate	2.4 gpm	4.0 gpm	5.0 gpm	5.0 gpm
Shipping Weight	125 lbs	158 lbs	175 lbs	247 lbs
Regeneration Type	Co-Current / Down Flow			
Maximum Hardness	75 Grains Per Gallon			
Maximum Total Iron Total iron = iron x 1 plus Manganese x 2	pH <7.2 - 10.0 ppm Total Iron; pH >7.2 - 7.0 ppm Total Iron			
Maximum Manganese (See Total Iron)	5.0 ppm			
Resin Type	Fine Mesh			
Plumbing Connections	Comes with 3/4" 90 degree elbow connectors			
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA			
Water Temperature	Min 39 - Max. 100° F			
Water Pressure	Min. 20 - Max. 125 psi			

\*Media not loaded in mineral tank.



SIM Series includes Pro Easy Feeder Starter Kit.



All Specialty Systems	
Plumbing Connections	3/4" and 1" connections
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA
Water Temperature	Min 39 - Max. 100 degrees Fahrenheit
Water Pressure	Min. 20 - Max. 125 psi

Your Local Plumbing Professional