

# WaterGroup®

## 185 IronGuard SIM Series

### Enjoy Iron-Free Soft Water

Combining proven water softener capabilities with the ability to remove clear water iron, the Iron Guard SIM system provides an effective and economical solution to hard and iron contaminated water. In addition, Iron Guard Plus, is specially designed for application in low pH (acidic) 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.

Iron Guard 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. The Iron Guard Plus bed contains calcium carbonate in addition to the fine mesh ion exchange 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	WG185DFSIM-100	WG185DFSIM-150	WG185DFSIM-200*	WG185DFSIM-300*
	2137	2138	2139	2178
<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 (ft3)	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	120 lbs	161 lbs	214 lbs	300 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	Includes 3/4" 90° Elbows NPT			
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.

\*\* SEE PRODUCT DATA SHEETS FOR IAPMO IRON REDUCTION SPECIFICATIONS.



SIM Series includes Pro Easy Feeder Starter Kit.



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