

185 IronGuard SIM Series



Enjoy Iron-Free Soft Water

Combining proven water softener capabilities with the ability to remove clear and red 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 or red 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. This media combines to raise low pH water to enable the resin to remove hardness and red water iron.

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	WG185SIM30	WG185SIM45	WG185SIM60	WG185SIM90	WG185SIM30+
	2137	2138	2139	2178	2140
Factory Settings - Iron & Manganese					
Salt Used - Per Regeneration	12.0 lbs	18.0 lbs	24.0 lbs	36.0 lbs	36.0 lbs
Water Used - Regeneration	52.2 gal	74.4 gal	101.4 gal	166 gal	166 gal
Hardness Removal - Grains	30,000	45,000	60,000	90,000	90,000
Resin Quantity - Cubic Feet	1.0 ft	1.5 ft	2.0 ft	3.0 ft	3.0 ft
Tank Size	9x48	10x54	12x52	14x65	14x65
Tank Jacket / Media Loaded	Yes	Yes	No	No	No
Brine Tank / Cabinet Size (Inches)	18.1 x 34.5	20.3 x 37.4	20.3 x 37.4	23.0 x 40.5	23.0 x 40.5
Salt Storage Capacity	240 lbs	350 lbs	350 lbs	420 lbs	420 lbs
Flow Rate @ 15 psi Pressure Drop	11.0 gpm	11.2 gpm	12.2 gpm	12.6 gpm	12.6 gpm
Flow Rate @ 25 psi Pressure Drop	15.0 gpm	15.1 gpm	16.2 gpm	16.6 gpm	16.6 gpm
Back Wash Flow Rate	2.1 gpm	2.4 gpm	3.5 gpm	5.0 gpm	5.0 gpm
Shipping Weight	125 lbs	158 lbs	175 lbs	247 lbs	247 lbs
Regeneration Type	Co-Current / Down Flow				
Maximum Hardness	75 Grains Per Gallon				
Maximum Iron (Ferrous)	10 ppm				
Maximum Manganese	5 ppm				
Resin Type	Aquafine High Efficiency Cation Ion Exchange Resin				