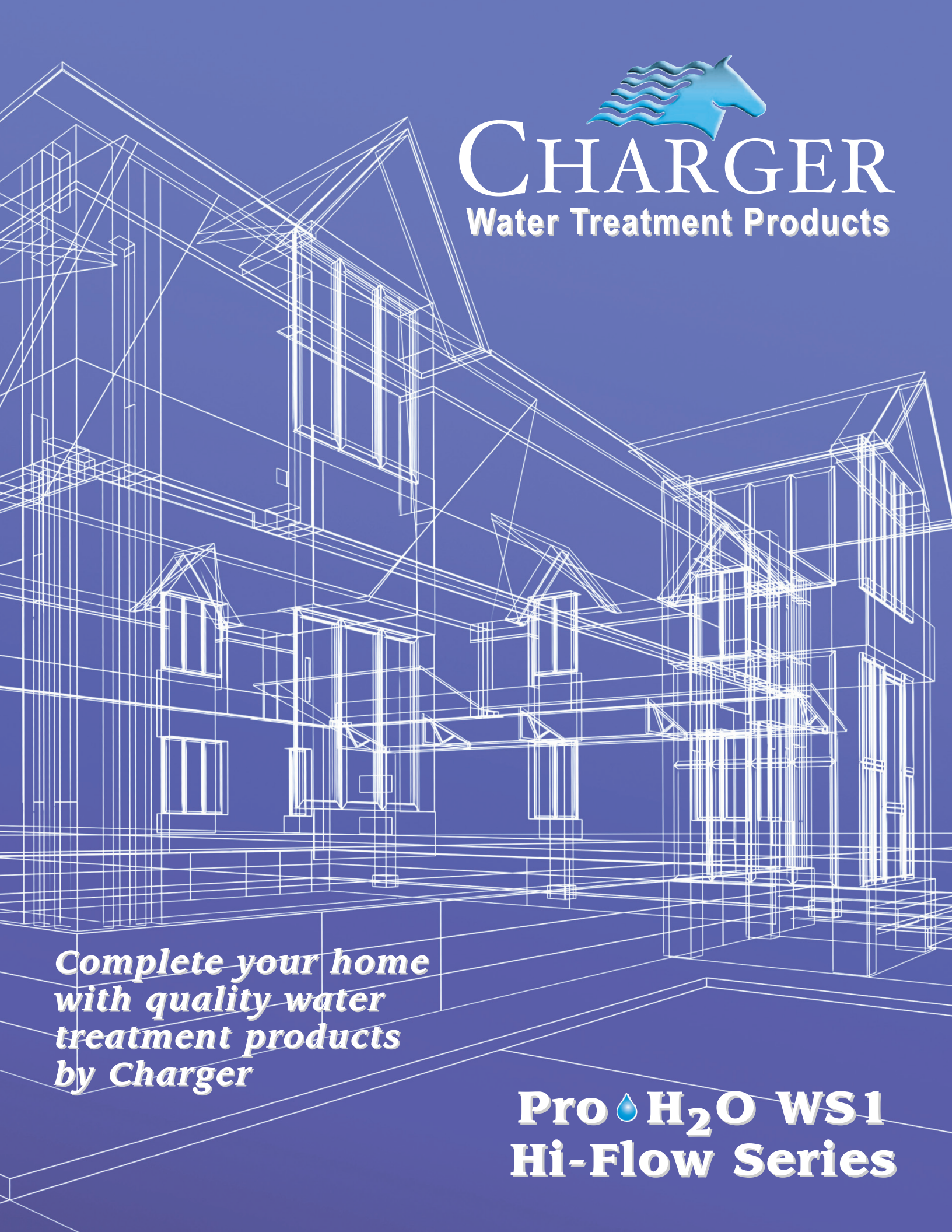


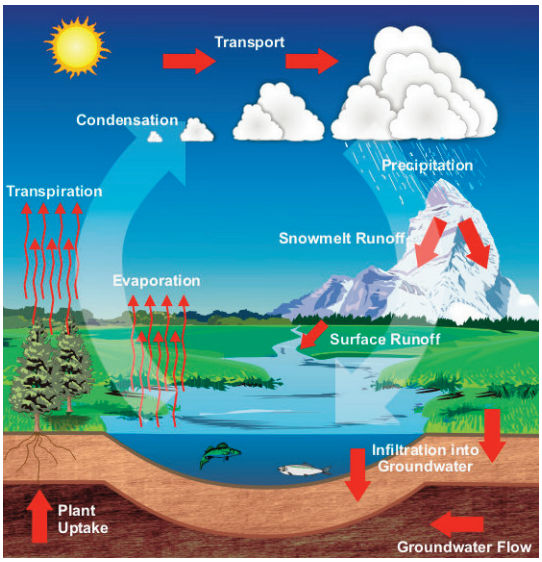
CHARGER

Water Treatment Products

Complete your home with quality water treatment products by Charger

Pro H_2O WS1 Hi-Flow Series

Why soft water?



Your Water, The Universal Solvent!

Water is considered the universal solvent. As it passes from liquid to vapor and back again, it tends to dissolve everything it touches - whether in the air as water vapor were it can mix with sulfur from smoke stacks forming acid or from the ground, absorbing calcium, magnesium, sulfur, iron, lead and limestone - water can have a negative impact on you, your household and your pocketbook. Depending on where you live, contaminants from sewage, industrial waste and agricultural run-off can also seep into your water supply.

Hard water produces scale.

If there are stains or buildup on your sinks and bathtubs...if you have to use large amounts of soap to clean dishes or wash your hair...or if your water tastes or smells odd, you probably have hard water. If left untreated, the minerals in hard water will cause yellow stains on plumbing fixtures and be deposited as scale, eventually clogging plumbing and shortening the life of appliances like washing machines, water heaters and dishwashers. Scale deposits not only cut down on the efficiency of these appliances, they cost you money, increasing both energy and maintenance bills.

Water softeners eliminate the effects of hard water.

They "soften" the water by removing the calcium and magnesium found there, extending the useful life of water heaters, coffeemakers, humidifiers and household plumbing *by as much as 30%*.

Soft water makes a difference you can see and feel, all over the house.

In the Bathroom: Soap and shampoo will lather better. Hair and skin will feel noticeably cleaner, softer and not as dry. No soap scum or mineral deposits to clean off sinks, showers, tubs or toilets.

In the Laundry: Clothes will be softer, cleaner, whiter and brighter. Plus they will last longer. Using soft water increases the life of clothing, towels and linens up to 33%. Without hard water service issues, washing machines last longer, too.

In the Kitchen: Dishes will clean more easily, and be spot free, without the film glasses get when etched by mineral-laden water.

Throughout the House: Water-using appliances will last longer and run better. Why? Because hot water heaters, washing machines and dishwashers using hard water can wear out 30% faster.

Soft water works for you!

How the Pro H_2O WS1 1" Hi-Flow System softens water:

Hard water passes through the media tank that contains resin beads coated with sodium ions. The calcium and magnesium ions are exchanged for sodium (or potassium) ions, thus softening the water. When the beads have trapped the hardness and need to be regenerated, the Hi-Flow's control valve charges them with the brine from the brine tank.

As regeneration occurs, calcium and magnesium (hardness) ions are freed from the beads, replaced with sodium or potassium ions; and the system is ready to soften water again.

Capacity is one of the first things you should look for in a water softener. The average family uses 80 to 100 gallons of water per person per day. That means a household of five requires 400 gallons of softened water daily. If your water has a hardness rating of 30 grains per gallon (gpg), for example, you would need to remove 12,000 grains per day (400 gallons x 30 grains). With a water softener that regenerates every 3 days, your minimum softener capacity would be 36,000 grains (12,000 grains x 3 days).

Brine tank performance insurance

All Charger water softeners may be ordered with optional salt grid which virtually prevents salt bridging.

D.I.R. - Demand Initiated Regeneration

Save water and up to 40% in salt usage by adding meter-controlled regeneration to your unit.

Charger WS1 1" Control Valve features:

- **Up to six fully adjustable cycles**
- **Flow rates to 27 gpm**
- **Operating pressure to 125 psi, Operating temperatures to 110ºF**
- **Metered (D.I.R.) or timed regeneration**
- **System reset totalizer to 9.99 million gallons with alarm capabilities**
- **Relay trip capable at adjustable gallon volumes or time settings**
- **Variable regeneration cycle timed output**
- **Relay can signal modem or call device**

CHARGER
Water Treatment Products

Reverse Osmosis Drinking Water System

- *Delicious, sparkling-clear drinking water*
- *Convenience: Fresh, clean water at your faucet*
- *Pristine, flavorful coffee, tea and juice*
- *Quality water for your aquarium*
- *Cleanly rinsed fresh fruits and vegetables*
- *Crystalline, harder and clearer ice cubes*
- *Prolong the life of your humidifier or steam iron*
- *Spotless glassware when rinsed with R.O. water*
- *Cost effective: No more bottled water costs*
- *Better tasting soups, sauces and meals*
- *Environmentally sound: No chemicals*
- *Great for family pets*

The "R.O." of the system is the secret.

"R.O." is Reverse Osmosis. This is the natural process which sets the foundation of R.O. systems. It may sound technical, but osmosis is a natural, organic phenomenon, a process that occurs in nature on a continuous basis. Vegetation, like trees, plants and flowers attain their nutrients by using osmosis to draw water from the soil.

Reverse Osmosis (R.O.) works like this:

The pressure from a household tap forces water through a semipermeable membrane. This membrane separates the water at the molecular level. The membrane acts like a filter, assuring the Reverse Osmosis water has substantially reduced impurities and dissolved solids. This cleaner, more refined water is then stored in a holding tank, ready at your convenience.

Available from: