



Hellenbrand[®]

What's In Your Water?[™]

ProMate[®] **6.0**
WATER CONDITIONING SYSTEM

A Premium Water Conditioning System



Save On Energy With Soft Water

Hellenbrand Means Quality and Reliability

The only Waunakee in the world, a village of nearly 11,500 people in south central Wisconsin, is the home of Hellenbrand Water Conditioners. Waunakee, an Indian name that means “peaceful valley,” is the ideal setting for a company with neighborly, small town concern for its customers and dealers. Since it opened its doors in 1967 Hellenbrand has offered something you rarely find anywhere today — well designed, quality products backed up with fast, reliable service. Family owned, made in the USA.

The company leaders, with a total of more than 150 years experience in the water conditioning equipment business, are proud of their reputation so that you can be proud of your Hellenbrand Water Conditioner.



With our growing national network of dealers, Hellenbrand has earned a reputation from their peers within the water treatment industry as an organization that supports its dealer network with not only well designed quality products, but with leading edge technology, extensive dealer training and simply treating our customers with good old fashioned family service.

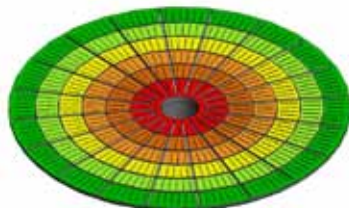
ProMate 6.0; Elegant Simplicity, Raw Power, Premium Resin

Superior Flow Technology

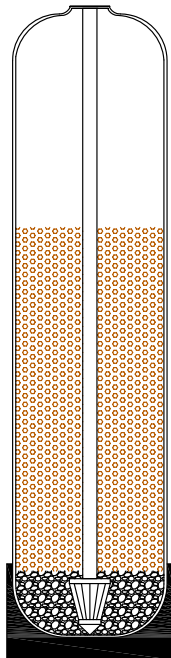
Hellenbrand’s distribution plate has 56% more surface area on 10” diameter systems than standard systems with a cone type distributor, and runs the full width of the tank diameter for significantly improved performance.

- Improved bed expansion in backwash provides better cleaning of the bed.
- Less water is required to regenerate.

Array (starting at center)	% Increase of open area with respect to Array No. 1
Array No. 1	-
Array No. 2	100%
Array No. 3	200%
Array No. 4	300%
Array No. 5	400%
Array No. 6	500%



Vortech™ 10” Mid Plate



Standard Tank

Premium 10% Resin

- We use premium 10% crosslinked resin vs. most of our competitors that use 8% or less.

What does this mean?

- 10% resin is used for a lot of commercial applications, because it is stronger and lasts longer. It resists mushing and jelling from chemicals and physical breakdown.
- Damaged resin means you will use more salt and waste more water when recharging the resin for softening.
- You also have better pressure over the life of your softener.

Fewer Parts = Fewer Problems

- Modular Design
- Non-Corrosive Valve Body & Internals
- One Piece Stack Assembly
- No Nuts, Bolts, Screws or Micro-Switches
- Disassemble and Reassemble in Minutes



Life Is Better With Conditioned Water!



Better in the laundry.



Better in the bathroom.



Better in the kitchen.

In the laundry...

- Wash is fresher, cleaner and brighter.
- Longer life for washing machine.
- Use less detergent.

In the bathroom...

- Cleaner fixtures with less soap-scum buildup.
- Stain-free sinks, tubs and showers.
- Softer skin and more manageable hair.
- Use less shampoo and conditioners.

In the kitchen...

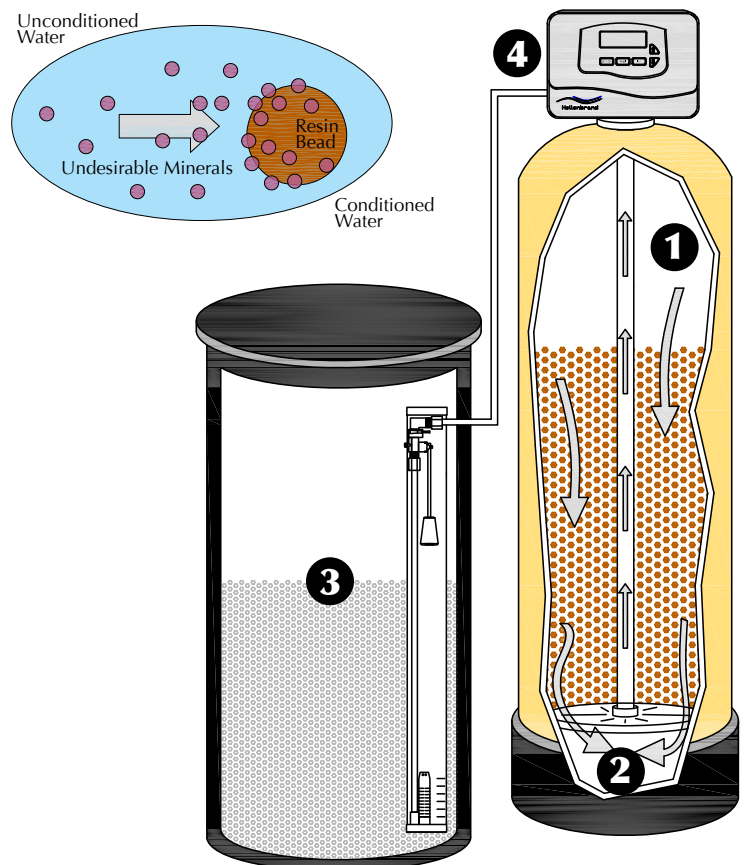
- Shiny, spotless dishes and glasses.
- A sparkling clean sink.

Soft water saves money:

- Water heater efficiency is increased 21% to 29%.
- Save up to 70% on soap in the kitchen, laundry and bath.
- Appliances like dishwashers and laundry machines last up to one-third longer.
- Water heaters last up to twice as long.
- Clothing will be whiter, brighter and last longer.

How Does a ProMate 6.0 Water Softener Work?

- 1** Hard water enters your water softener and passes down through the ion exchange resin, which are charged with sodium ions. The hard water ions (calcium and magnesium) are attracted to the ion exchange resin and an equal amount of sodium ions are bumped off into the water supply.
- 2** When the water reaches the bottom of the tank, it is softened and ready to be used in your home and business.
- 3** When softening resin is saturated with hard water minerals, it must be recharged. A strong salt solution flushes the calcium and magnesium off the resin and the resin is recharged with sodium. The brine solution from your brine tank is the fuel to recharge the resin beads with sodium.
- 4** Your ProMate control valve controls this entire process, including the frequency of regeneration.



You'll notice a big difference in every part of your home with a ProMate 6.0 Water Softener



Help Dry Skin and Hair

Use less shampoo and conditioner. Enjoy healthier and softer skin and hair with softened water.



Stop Discoloration and Staining

Softened water eliminates hard water stains and significantly reduces rust colored stains from iron.

Photo courtesy of WQA; <http://www.wqa.org/sitelogic.cfmID=1091>



Reduce Energy Costs

Softened water maintains the Energy Star ratings on your water heater by preventing rock like scale build-up, thus saving you significant dollars in energy costs and a much longer life for your water heater.



Protect Plumbing, Appliances & Fixtures

Softened water extends the life and significantly reduces the repair costs as a result of hard water. Your faucets and showerheads will last much longer and your dishes and clothes will be cleaner.

Soft Water Benefits Study

Dishwasher Study Findings

- Detergent savings of up to 70% with soft water as compared to hard water.
- Depending on the soil, hardness reduction was found to be up to 12 times more effective at soil removal than increasing detergent dose.
- Hardness reduction was 6 times more effective at reducing spotting and twice as effective at reducing filming as increasing detergent use.

Laundry Study Findings

- Stain removal performance increases dramatically when hardness is removed even when dose and temperature are also lowered.
- Softening the water will allow use of less detergent and will also save energy by lowering water temperatures, while still maintaining or improving performance.

Softened Water Benefits

- **Gas Storage Tank Water Heaters**
 - Gas storage tank household water heaters operated on softened water maintained the original factor efficiency rating over a 15 year lifetime.
 - Each 5 grains of water hardness causes an 8% loss in efficiency and an 8% increase in cost for using 100 gallons of hot water per day on 30gpg hard water. That's 48% less efficient than softened water.

- **Tankless Water Heaters**

- Tank-less water heaters operating on 26.2 grains per gallon of hardness failed to operate after 19 days of testing.
- Softened water saves 40% of operating costs compared to operating on 20 gpg of hard water and saves 57% when operating on 30 gpg of hard water.

- **Electric Water Heaters**

- Each 5 gpg of water hardness causes 0.4 pounds of scale accumulation each year in electric storage tank household water heaters.
- Up to 30 pounds of calcium carbonate rock-like scale deposits can accumulate in electric water heaters.

- **Carbon Footprint**

- The carbon footprint increases 18% for gas storage tank water heaters when operated on 26 gpg hard water for 15 years as compared to the same operation on 0 gpg hard water

- **Showerheads and Fixtures**

- Showerheads with soft water maintained a brilliant luster and full flow, and performed nearly as well throughout the study as the day they were installed.
- Showerheads on hard water lost 75% of the flow rate in less than 18 months.

The detergent savings studies were conducted by the independent testing firm Scientific Services S/D, Inc. of New York and the softened water benefit studies were conducted by the Battelle Memorial Institute, a non-profit international science and technologies enterprise. Both studies were funded by the Water Quality Research Foundation (WQRF).



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