



ProMate 6.0™

TWIN ALTERNATING SYSTEM

***Save on Salt,
Save on Energy,
Save on Water***

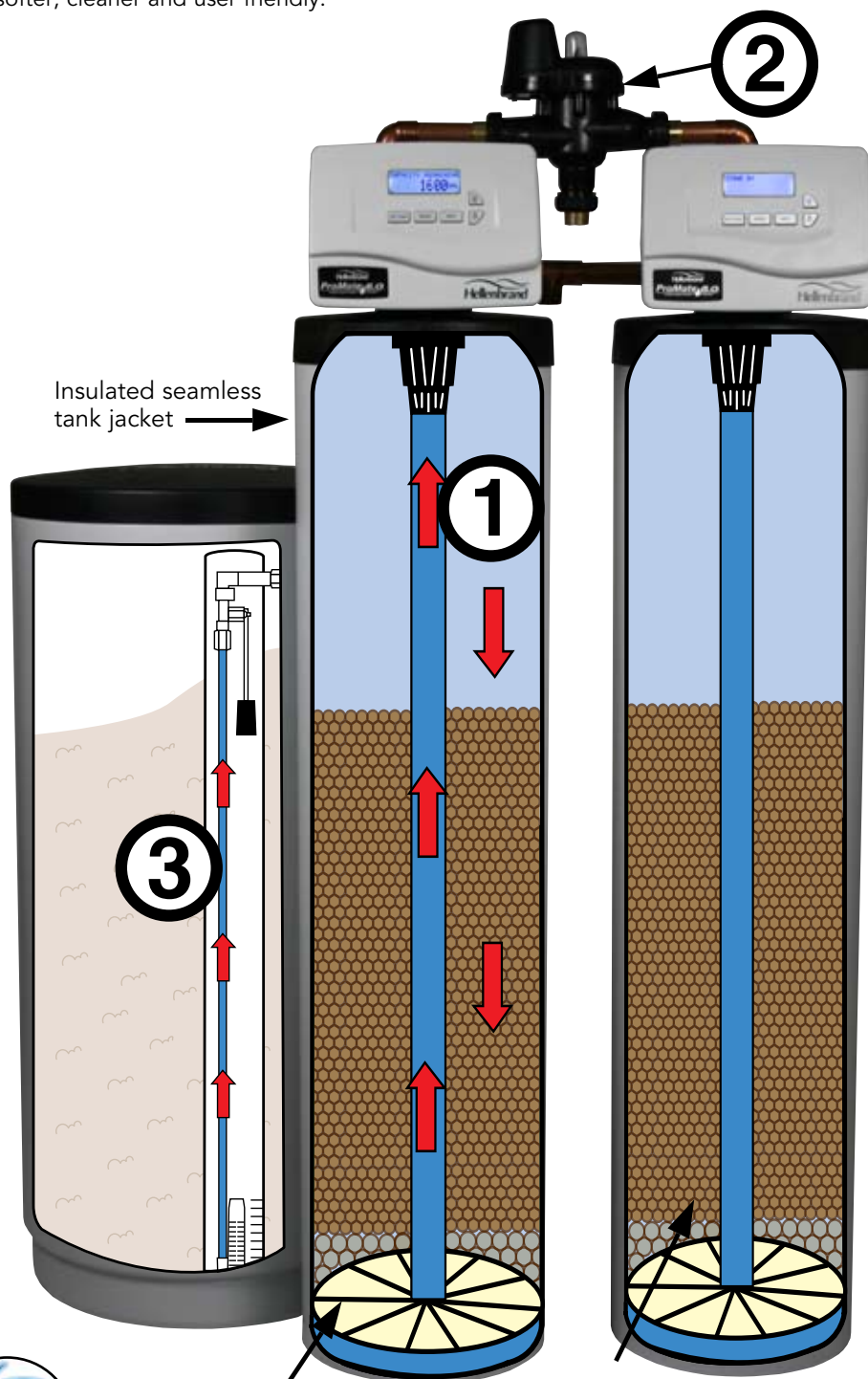


Never Run Out Of Softened Water Again!

Eliminating Hard Water is easy with a ProMate-6.0 Twin Alternating System "TAS"

Life is hard – especially if you have hard water in your home. Hard water creates scale, which can shorten the life of your pipes, water heater, dishwasher, and washing machine. Hard water deposits stain sinks and bathtubs, spot glasses and dishes, and leaves your laundry dull and dingy.

Put an end to hard water mineral deposits with a ProMate-6.0 water softener. The ProMate-6.0 removes calcium and magnesium hardness minerals leaving your water softer, cleaner and user friendly.



Insulated seamless tank jacket →

3

1

2

Vortech™ Distributor - Enhanced resin cleaning. Reduces water for regeneration. Not available in all sizes.

10% Cross Linked Resin, has a higher tolerance for chlorine.

How does a ProMate-6.0 TAS water softener work?

1. Hard water enters tank #1 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. When the water reaches the bottom of the tank and exits up through the distributor tube, your water has been softened and is ready to be used in your home or business.

2. When the ion exchange resin is saturated with calcium and magnesium (hard water ions) it must be recharged. The water meter on tank #1 determines this sending a signal to the motorized alternating valve "MAV" to place tank #2 on line to continue the softening process and at the same time it closes the outlet flow from tank #1 so it can begin the regeneration process.

3. A strong brine solution enters tank #1 and flushes the calcium and magnesium ions off the ion exchange resin and attaches itself. A final rinse process ensures the resin completely recharged so tank #1 of the ProMate-6.0 TAS is ready to provide you with capacity before regeneration takes place.

4. Your ProMate-6.0 TAS control valve and MAV operates the entire process for regeneration and switching of tanks, ensuring that you have softened water on demand, 24-hours per day.





Better in the kitchen.



Better in the bathroom.



Better in the laundry.

Soft water saves money:

- Water heater efficiency is increased 21% to 29%.
- Save up to 70% on soap in the kitchen, laundry and bath.
- Save up to 25% on personal-care items such as hair conditioners and shaving cream.
- Household cleaning time can be cut by 40%.
- Save up to 15% in plumbing supplies and repairs.
- 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.

You'll notice a big difference in every part of your home with the ProMate-6.0 TAS.

In the kitchen...

- Shiny, spotless dishes and glasses.
- A sparkling clean sink.
- Longer life for plumbing and appliances.

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 laundry...

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

Water Conservation

With water conservation concerns increasing daily throughout the world and right here in the U.S., all of us have an obligation to use it wisely whether we are at home or at work.

Consider these facts:

- Nearly 71% of the earth is made up of bodies of water, yet only 3% of this is considered fresh water.
- All of the water that ever existed on earth still exists today. It is simply being used over and over again.
- Conserving water is the right thing to do, it will save you money and if you receive your water from a public water supply it will save them money on the investments they must make for the infrastructure and treatment they need to do to get the water to your home.
- A century ago, Americans used approximately 10 gallons of water to drink, cook, clean and bathe. Today, we use between 75-100 gallons per person, as the family outhouse has been replaced with a 3-4 bath house with daily showers, a whirlpool bath and possibly a shower tower.

Water Conservation - We All Need To Do Our Part

- Replace older five-gallon toilets with new 1.9 gallon-per-flush models or less. This can save thousands of gallons per year.
- Fix or replace leaky toilets which can waste hundreds of gallons per day.
- Repair or replace dripping faucets.
- Don't let water run while brushing your teeth.
- Take shorter showers and use a 2-gpm flow control.
- Install a hot water recirculation line so when you turn on the water you are not standing around waiting for it to get warm.
- Replace older wash machines with newer energy efficient machines.
- Update your water softening system.



The ProMate-6.0 TAS Control is User-Friendly and Reliable.

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



Save on Salt, Save on Energy, Save on Water.

Your Water Treatment System

Not many of us stop to think of the impact on how we use water in relation to the water treatment system for your family. Think about it, if the previous steps conservatively could save 20% on your water usage, then it in turn saves you 20% on your salt costs and with less frequent regenerations it also saves water.

Now you can save even more than that with the ProMate-6.0™ Twin Alternating System (TAS). The PM-6.0 TAS utilizes 100% of the available capacity, then switches tanks and regenerates the exhausted tank. Studies involving families with and without children have shown savings on salt and water usage up to 17% over single meter demand or sensor demand water softening systems. The PM-6.0 TAS provides softened water 24/7, thus you never need to worry about running out of softened water.

Let's Compare The Differences Between Single and Twin Alternating Systems:

Single Tank System – Whether these are meter demand systems or sensor based systems they both are designed to provide a “reserve capacity” which typically is one day's average water usage. Meter demand systems do this either mechanically or electronically with a microprocessor. Sensor based systems do this by adjusting the location of the sensors up or down in the media bed or outside tank wall. The media between and/or below the bottom sensor is the reserve capacity. Both meter demand and sensor based systems by-pass hard water during regeneration, potentially allowing hard water to enter your water heater and distribution lines.

Each day at a pre-set time usually the early morning hours the meter based systems look to see if they have enough gallons of softened water for their usage the next day. Typically an average of 75 gallons per person per day is used when sizing a system for all household usage, excluding the outside hose bibs. If a family of four requires 300 gallons on average daily and there is at least 300 gallons remaining, the unit does not regenerate. If the gallons remaining are less than 300 gallons the unit will regenerate. The catch

here is if it is less than 300 gallons (0-299). If it is zero, you will have exhausted the unit and have hard water. Any number higher than that is the gallons of softened water you are wasting, along with the salt previously used, which is the fuel to run your water softener and the water previously used to regenerate your system.

A sensor based system functions much the same way as the meter demand system since it regenerates on a delayed basis as well. The location of the sensor probe will sense the hardness front approaching and signal the need for a regeneration. Like the metered system, if you exhaust the reserve capacity before you regenerate you end up with hard water and any capacity remaining (gallons of softened water available) along with salt and the water used to regenerate the system are wasted.

Think of it this way, it's kind of like driving your car. With today's gas prices, you would not want to throw away one gallon of gas each time you filled up would you? Absolutely not, yet that is what happens with all single tank water softeners that regenerate on a delayed basis, whether it is a meter demand or sensor based system.

ProMate-6.0™ Twin Alternating System Benefits:

- 24/7 Softened Water
- Utilizes 100% of Available Capacity
- Electronic Meter Demand, User Friendly, Automatically Monitors Water Treatment
- Fully Programmable Control For Maximum Efficiency
- Regenerates With Softened Water or Raw Water
- Rinses Off Tank Every 12-Hours To Keep The Off Tank Fresh and Ready For Use
- Uses Less Than \$2.50 of Electricity Per Year
- Premium 10% cross linked resin has a higher tolerance for chlorine and resists degradation from oxidizers in both city and well applications.
- 12-volt operation available in either AC or DC voltage.



Hellenbrand's continuing effort to help save our environment, this brochure was printed on recycled paper.



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