

**MAXIMIZE EFFICIENCY, LOWER CARBON FOOTPRINT, REDUCE COSTS**

Magnation's water treatment Magnation's water treatment solves hard water problems and maximizes resources, with zero chemicals. Reduce maintenance and down time while extending the life of your pumps, pipes and equipment. Reduce energy costs and water consumption with a passive, inline Aquabolt™ water treatment.



**AQUABOLT™ BENEFITS**

- ✓ Prevent/reverse scale buildup in pumps and pipes
- ✓ 10-50% less detergent and cleaning chemicals
- ✓ Extended longevity of pipes and equipment
- ✓ Up to 40% less energy in heating/cooling
- ✓ Decreased surface tension and viscosity
- ✓ Lower total dissolved solids (TDS)
- ✓ Reduce pathogens and chlorine
- ✓ Extend life of RO membranes
- ✓ Improved worker safety
- ✓ Reduced maintenance
- ✓ Lower operating costs
- ✓ Increased water flow
- ✓ Reduced heat stress
- ✓ Water savings!
- ✓ Long-lasting
- ✓ Fast ROI



RAINLIKEWATER.COM

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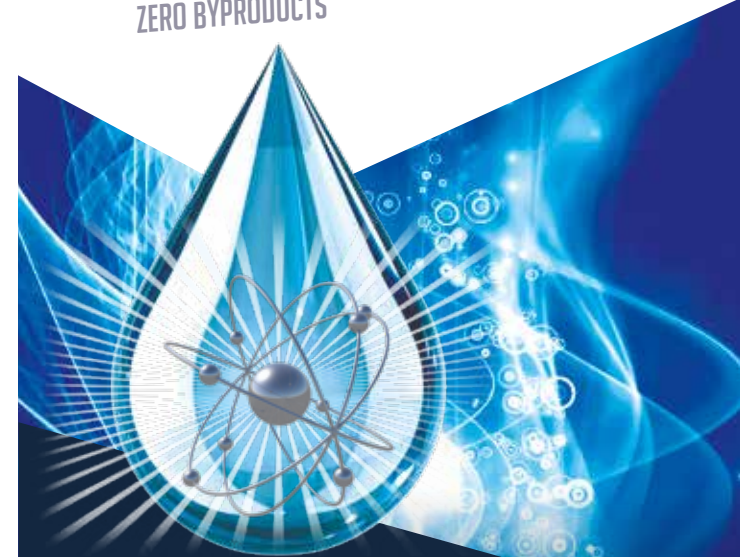
# AQUABOLT™

## PHYSICAL WATER SOFTENING

SOLVE EXTREME SALTS & BOOST WATER PERFORMANCE  
NO SCALE, CORROSION, BIOHAZARDS + LESS DOWNTIME  
WATER, ENERGY & CHEMICAL SAVINGS



ZERO CHEMICALS  
ZERO ENERGY  
ZERO MAINTENANCE  
ZERO BYPRODUCTS







## PREVENT & REVERSE MINERAL SCALE

### Energy Consumption Increases with Scale

$1/32$ " scale = 8.5% increased energy consumption

$1/16$ " scale = 12.4% increased energy consumption

$1/8$ " scale = 25% increased energy consumption

$1/4$ " scale = 40% increased energy consumption

Magnation prevents and reverses scale on the interior and exterior of all pipes, plumbing, and pump surfaces, boilers, evaporative cooling towers, emitters and other industrial equipment. Correct problematic iron bacteria, manganese toxicity and hydrogen sulfide issues and prevent corrosion with chemical-free, environmentally-sound water treatment.

Save money on labor and materials, and gain the benefit of less down time and longer equipment life with Magnation's rainlike water.



## SAVE ENERGY AND IMPROVE FLOW

In addition to scale mitigation for energy savings, Magnation treated water moves faster and easier. Flow improves due to reduced viscosity and less friction. Reduce energy consumption while improving productivity!

### IMPROVED FLOW WITH LESS ENERGY

CONDUCTED BY MARIN COUNTY FIRE DEPT, CA, 2009

Nozzle pressure (psi)	TEST #1	TEST #2		
	Nozzle flow (gpm)	Pump intake pressure (psi)	Pump discharge pressure (psi)	Pump work rate (rpm)
80	450	100	130	700
80	510	90	120	600

Controlled study shows Magnation increased water flow from 450 gallons per minute to 510 gpm, equalling a 13.3% flow increase with same energy.

It also decreased its pump intake pressure from 100 to 90 psi, pump discharge pressure from 130 to 120 psi, and the pump work rate from 700 to 600 rpm. Nozzle pressure remained constant at 80psi.

*"After installing Magnation, we observed 42% savings in energy, less scale formation, higher efficiency in cooling with less demand on compressors for cooling towers resulting in easier chilling cycles, and better spray pattern on 15 year old equipment—the manufacturer had never seen that before! And, the cooling tower used to have a foul stink that no longer smells."*

~ BRIAN MALONE, CHIEF ENGINEER, ABLE ENGINEERING SERVICES AT THE GAP HEADQUARTERS, CALIFORNIA, 2018

## IMPROVE PUMP EFFICIENCY BY 10%

Magnation improves pump performance with better air intake, better spray patterns and flow inducement while saving fuel to get more power with less energy.

Magnation significantly prolongs the lifespan of every pump rating, as well as reduces time and manpower spent on unnecessary maintenance. The cascading benefits impacts pumps, engines and generators for better performance and enhanced fuel efficiency.

## BETTER SANITATION = BIOSECURITY

Magnation boosts biosecurity by preventing bacteria, mold, algae, fungus and odors by reducing cavitation and making cleanup easier, faster and more effective. Reduce chemicals and detergents with improved solubility and a greener operation.

