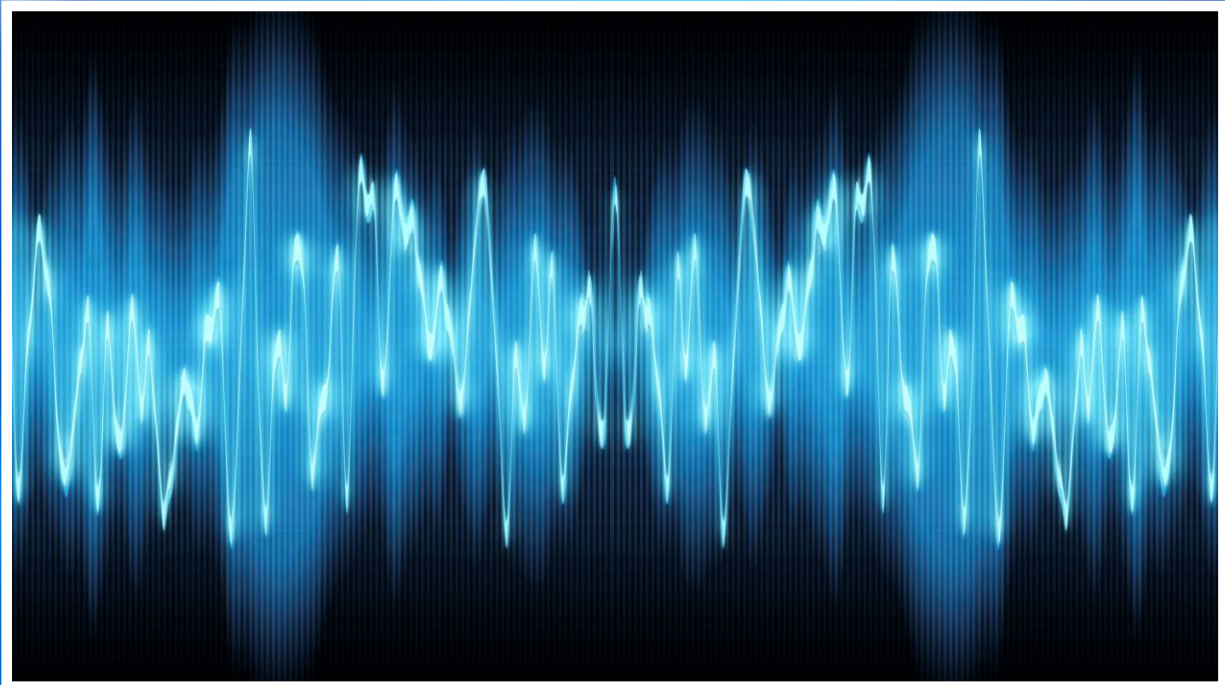


# SCALE BLASTER®

*Innovative • Ingenious • Intelligent*



## Information Guide



**Residential**



**Commercial**



**Industrial**

# SCALEBLASTER®



# MineralPURE®



## About the manufacturer

**ScaleBlaster, Inc.** is a leading manufacturer of innovative & environmentally-friendly products. The company was established in 1989 with its corporate headquarters located in a newly remodeled two-story building in the Clearwater, Florida area. Sales, administration, manufacturing, shipping & receiving are all conveniently located under one roof.

**Our** products include **ScaleBlaster**, an electronic water conditioner, and **Mineral Pure**, a copper-silver ionization system, that greatly reduces the need for chlorine in swimming pools & cooling towers.

Our products have been commercially licensed by NASA and have appeared in NASA publications, hundreds of trade magazines, HGTV and on Discovery's "Planet Green" channel.

The company's distribution includes many of the major wholesale plumbing supply dealers in the United States and over 600 dealers across the globe in over 70 countries. Our satisfied customers include some of the world's largest companies and hundreds of major power plants around the world.



## ScaleBlaster, Inc.

8767 115th Avenue North  
Largo, FL 33773  
Phone – 727-562-5186  
Fax – 727-562-5187  
Toll free – 800-756-7946

[ScaleBlaster.com](http://ScaleBlaster.com)

ScaleBlaster® is a registered trademark



# About ScaleBlaster

We manufacture fifteen (15) models of **ScaleBlaster**, and is the only company serving the *residential, commercial & industrial* industries with a salt and chemical-free alternative that performs as advertised. **ScaleBlaster**, a pioneer in the industry, was developed in the early 1990s. Their first units were sold in 1995 and included the *Kresovice Brewery* in the Czech Republic, one of the oldest breweries in the world. An innovative product, **ScaleBlaster** is the world leader in the industry where

ingenuity & great service are essential to our great success.

**ScaleBlaster** appeared on the HGTV's show "I Want That!" in 1995. Today, the product is used by many of the world's largest companies, power plants, military bases and major cruise ships around the world. A sampling of some of our installs can be seen on pages 14-16.

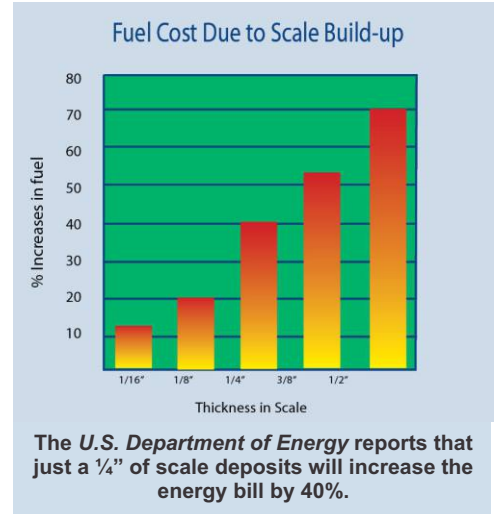
## Hard Water Problems

According to the *United States Geological Survey*, 89.3% of the United States is affected by hard water.

Homeowners experience water that won't lather and rinse off easily, use a lot of soap and detergents and complain about dry, itchy skin. Clogged water pipes, shower heads, mold, mildew and corrosion plus the premature life span of appliances like the dishwasher, water heater and washing machine can be quite costly.

Operation managers are under increasing pressure to cut costs and become more efficient while taking regard toward our environment. Limescale deposits can cause serious problems by restricting the water flow in pipes and reducing thermal efficiency.

**ScaleBlaster** can solve these problems with a simple, one-time installation to the incoming water supply line.



## The Healthy alternative

Calcium and magnesium are naturally present in our water supply and are beneficial minerals required by our metabolism. Water softeners exchange calcium and magnesium ions with twice as many sodium ions.

Why remove them? Don't! Much of today's drinking water has twice the EPA limit for sodium content. In the end, humans consume from two to ten times the amount of salt needed for a healthy existence. Water softeners are not recommended for those on salt-restricted diets. **ScaleBlaster** does not require salt, chemicals or maintenance.

## Go Green! Earn a LEED point, too.

Traditional water softeners have a negative impact on the environment. They discharge sodium (chlorides) into the waste stream. These contaminants cause major recycling problems for municipal water plants. With only 2.5% of the Earth's water considered "fresh", it is important we protect that resource. With **ScaleBlaster**, you can do your part in protecting the environment.

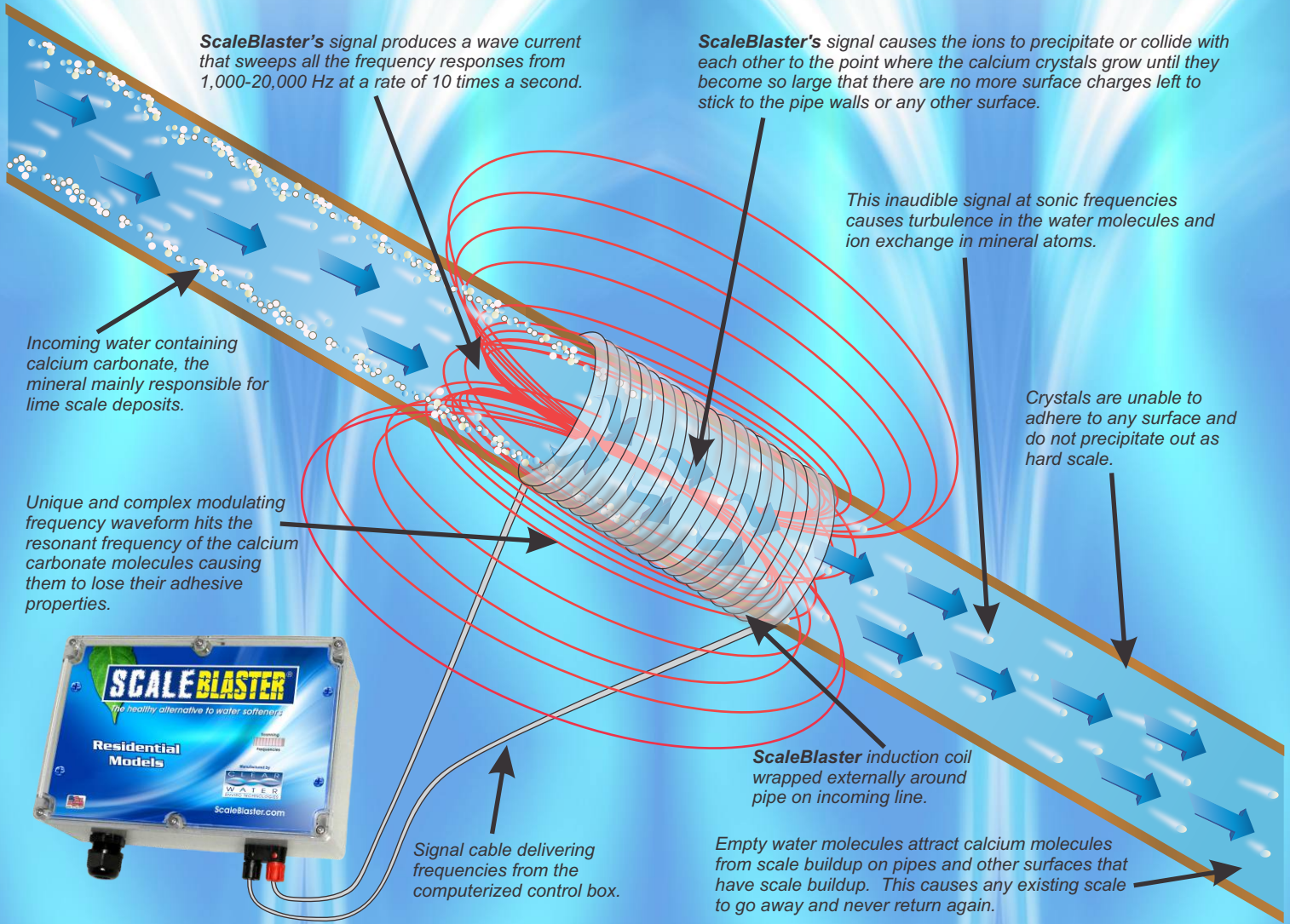


*LEED* is an internationally recognized green building certification developed by the *U.S. Green Building Council* that provides verification that a building or community was designed to protect the environment while improving on energy and water efficiency.

"Green" architectural engineering companies like *HOK* earn LEED points in "*Innovation in Design*" by installing **ScaleBlaster**.



# How ScaleBlaster works



## The Choice is Clear

**ScaleBlaster** is an innovative, compact, state-of-the-art, computerized water conditioner that is installed on the incoming water supply line.





For nearly 100 years, water softeners and chemicals have been perceived as the only way to treat hard water. Yes these methods have their obvious drawbacks.

**ScaleBlaster** is an innovative, compact, state-of-the-art, computerized water conditioner that is installed on the incoming water supply line.

From residential homes to commercial & industrial applications, **ScaleBlaster** is the world leader & innovator in solving hard water issues without using salt & chemicals.

# SCALE BLASTER

Product ingenuity  
at its best!

-  Removes limescale deposits forever
-  Never requires maintenance

The bottom line is...  
**nobody likes HARD WATER!**

## ScaleBlaster for any size application



**Residential**



**Commercial**



**Industrial**

## Removes limescale deposits forever

**BEFORE**



Nov. 5, 1997

**AFTER**



Dec. 7, 1997

Photos taken by Centre Analytical Laboratories



Water softeners require continous maintenance, endless bags of salt & waste a lot of water and money.

Water Softeners	vs. <b>SCALEBLASTER®</b>
Expensive to purchase & maintain	Affordable, one-time investment
5-10 year lifespan	20-25 year lifespan
Requires continuous maintenance	Never requires maintenance
Takes up lots of floor space	Mounts on a wall
Requires continuous purchasing of salt	Requires no salt or chemicals
Harmful for people on salt redistricted diets	Safe for people on salt restricted diets
Intrusive to the water	Non-intrusive to the water
Increases water & sewer bills greatly	Does not require any additional water usage
Discharges chlorides into waste stream	Environmentally "green" product
Makes Skin feel dry	Makes skin feel softer
Makes water feel slippery	Makes water feel "Silkier"
Soap suds difficult to remove	Soap suds wash away easily



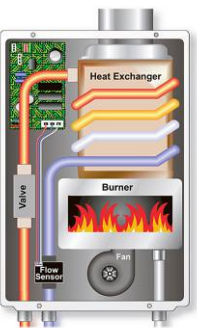
## Save some GREEN

### Residential

- Save \$100-\$200 on salt purchases alone for water softeners.
- Save hundreds on maintenance expenses.
- Save on water & sewer bill as softeners waste up to 100 gallons every time they regenerate.
- Lower soap, detergent and cleaning chemical expenses.
- Lower energy bill – limescale buildup decreases heat transfer making water heater inefficient.
- Prolongs life of appliances that come in contact with hard water.
- Increases value of the house by going with an eco-friendly product.



### Tankless water heater solution



Tankless water heaters are rapidly gaining in popularity, but the heat exchanger will foul up with scale deposits.

This will require regular service calls to flush out the tubes with a solution like CLR or vinegar. **ScaleBlaster** will protect the tankless water heater without any chemicals or maintenance.

### Water softener bans



Water softener bans have been instituted across the world to protect agricultural and aquatic life. Cities like *Santa Clarita* and *Fillmore, California* have banned water softening discharges totally.

### Commercial & Industrial

- Water softeners are expensive & require continuous maintenance.
- Water softeners require expensive deliveries of salt on a regular basis.
- Water softeners waste thousands of gallons of water yearly to regenerate, costing thousands of dollars in water & sewer expenses.
- Descaling chemicals and the labor to remove scale deposits can cost tens of thousands of dollars yearly.
- Prolongs life of capital equipment.

# Residential Models

Untreated hard water will cause damage to anything it comes in contact with. Your investment in **ScaleBlaster** will provide many of the following benefits without the need of salt, chemicals or maintenance - for an entire generation:



- Removes limescale deposits in household pipes & keeps it away forever.
- Water will feel "silky" & soap will lather up more
- Prolongs the life of water heaters & heating elements by preventing scale buildup
- Less scum will allow soap & detergents to work more effectively

- Removes limescale buildup in shower heads, sinks and faucets
- Protects tankless water heaters from scaling up
- Healthier & better tasting water with the removal of scale buildup & its harmful bacteria
- Your skin will feel smoother & hair more manageable
- May improve symptoms of eczema & dry skin
- Cut soap & detergent use by up to 25%



- Protects appliances like dishwashers & washing machines
- Water heater will work much more efficiently, lowering heating bills
- Brighter, whiter & longer lasting clothes, towels & sheets



**SCALE BLASTER**<sup>®</sup>

ScaleBlaster has 3 premium residential models – the SB-75, SB-175, and the SB-MAX. All models come with a 90 day satisfaction guarantee.



SB-75



SB-175



SB-MAX

- Water conditioner solves hard water problems
- Never requires salt, chemicals or maintenance
- Removes limescale deposits forever
- Prolongs appliances from hard water damage
- Better for your health & environment

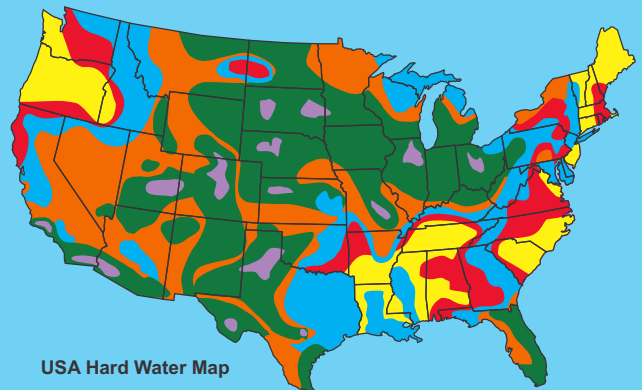


### How to size the proper residential model

There are two main items to look for when sizing the proper ScaleBlaster model:

#### a. The water hardness level

- Always obtain the proper water hardness level of the home, or use this map as a basic guideline.
- Well water may be harder water than noted on the map.
- For reference: gpg = grains per gallon, ppm = parts per million



USA Hard Water Map

SB-MAX	Rocklike hard	over 20 gpg (over 342 ppm)
SB-75	Extremely hard	14-20 gpg (240-341 ppm)
SB-175	Very hard	10-14 gpg (171-239 ppm)
SB-75	Hard	7-10 gpg (120-170 ppm)
SB-175	Moderately hard	3-7 gpg (51-119 ppm)
	Slightly hard	under 3 gpg (under 50 ppm)

#### b. The size of the house

- Always know the approx. size of the house, the # of floors, type of water heater(s) & # of bathrooms.



SB-75 /  
SB-175

- Small to medium homes



SB-75 /  
SB-175

- Medium to large homes



SB-MAX

- Large homes with multiple floors
- Large tankless heaters
- Homes with pressure tanks



SB-MAX

- Very large homes with multiple floors

# Commercial Models

Virtually any equipment you have that comes in contact with hard water is costing you money. Water heaters, dishwashers, sinks, toilets, shower heads, aerators, steam tables & ovens, ice machines, swimming pools and laundry equipment, towels, bed sheets, etc. are all affected by hard water. Water taste is bad; the building's pipe system will need replacement. Expenses in maintaining a cooling tower, boiler or chiller are often your costliest equipment to maintain – all because of hard water.



## Benefits for your entire operation.

### Cooling Towers

Huge savings in maintenance, biocide chemicals, labor and water usage. **ScaleBlaster** reduces scale buildup, bacteria, Biofilm, corrosion and algae blooms. It will reduce makeup water/ blow downs substantially, resulting in huge water savings. It will increase life of equipment and lower energy costs by about 10%.

### Chillers/Condensers/Air handlers

Lime scale deposit control on heat exchanger tubes and surfaces resulting in energy savings of 5-7%.

### Boilers

Huge savings in chemicals and labor maintenance. Reduces scale formation on boiler fire tubes, condensation tank, pumps, pipes and valves. Lowers energy costs by 25% and extends equipment life.

### Water heater tanks

Water heaters work more efficiently resulting in huge energy savings. Scale control on heating coil and tank.

### Dishwashers

Lime scale buildup in the dishwasher lines and on glassware and dishes will be reduced.

### Steamers

Your steamers will require little or no maintenance for scale build-up.

### Ice Machines

Scale deposits can cause cubes to be cloudy and clogs in the water flow. **ScaleBlaster** reduces filter clogs, Biofilm and contaminants. Maintenance and downtime are also reduced and equipment lasts longer.

### Laundry

Scale deposit control in steam ironing machines, washing machines. You will typically cut detergent use in half. Clothes and towels will feel softer, look brighter and last longer, making your clients feel more pampered. Greatly reduces lint formation in laundry room, a serious fire hazard.

### Drinking water, coffee machines, soda dispensers

The water will taste much better because the breeding ground of bacteria (scale in water pipes) is gone. By keeping calcium in the water, coffee and cappuccino will taste better.





There are 5 commercial models to handle all applications up to 8" pipe. All commercial models are UL listed.



SB-200LC



SB-250



SB-350



SB-450



SB-650

### Special application models



DISH-1200



SB-ICE50

### Housekeeping/general cleaning

Huge savings are realized in all phases of cleaning including the bathrooms and in the kitchen because there is less scale buildup in toilets, showers, nozzles and faucets. Reduced labor and savings in cleaning chemicals benefit your bottom line.

### Aerators

Aerators will no longer clog up with scale formation, resulting in the elimination of nuisance cleaning and replacement.

### Plumbing system

Your entire building's plumbing system will be de-scaled without any chemicals or re-plumbing. This results in huge savings in heating costs. If the plumbing ever needed replacement in the building, the cost would be astronomical.

### Swimming pools and hot tubs

Lime scale deposit in the filtration equipment and pool walls will be eliminated.

## Sizing the Proper Model

Before ordering any ScaleBlaster unit, it is important to talk to your dealer or representative to determine the proper factors that go into that decision such as:

- Pipe size (diameter)
- Pipe type (copper, pvc, cpvc, galvanized, steel, ductile iron)
- Water hardness (gpg, ppm)
- Flow rate
- Application
- Location on equipment
- One shot or recycled water

**SB-200LC** **Maximum 1" pipe** (non-magnetic)  
 ½" steel pipe magnetic (recirculating)  
 Water hardness 1-100 gpg  
 Pipe type – copper, pvc, cpvc, pex, non-magnetic steel pipe

**SB-250** **Maximum 2" pipe** (non-magnetic)  
 1" steel pipe magnetic (recirculating)  
 Water hardness 1-100 gpg  
 Pipe type – copper, pvc, cpvc, pex, non-magnetic steel pipe

**SB-350** **Maximum 3" pipe** (non-magnetic)  
 1" steel pipe magnetic (1 shot) 1 ½" (recirculating)  
 Water hardness 1-100 gpg  
 Pipe type- copper, pvc, cpvc, pex, non-magnetic steel pipe  
 (in addition to magnetic pipe listed above)

**SB-450** **Maximum 4" pipe** (non-magnetic)  
 1 ½" steel pipe magnetic (1 shot) 2" (recirculating)  
 Water hardness 1-100 gpg  
 Pipe type- copper, pvc, cpvc, pex, non-magnetic steel pipe  
 (in addition to magnetic pipe listed above)

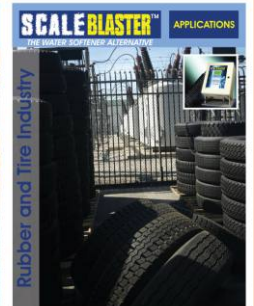
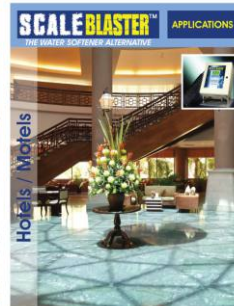
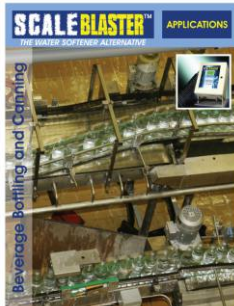
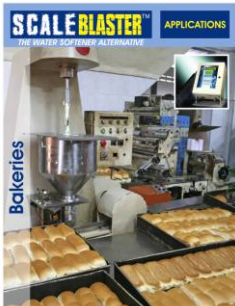
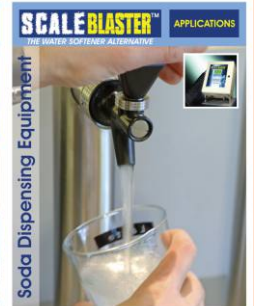
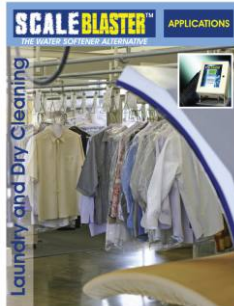
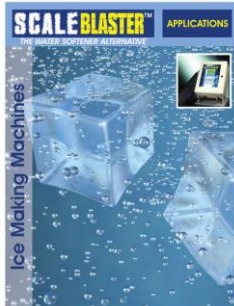
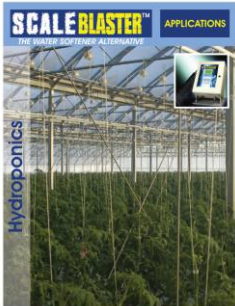
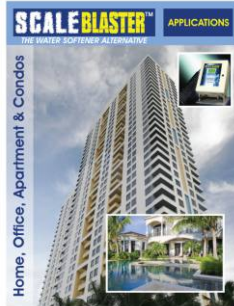
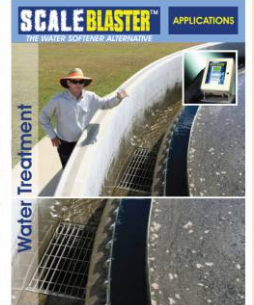
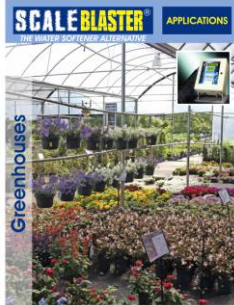
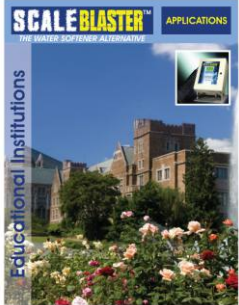
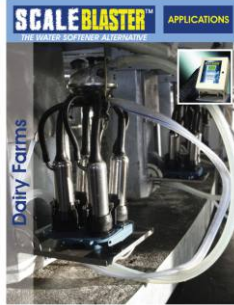
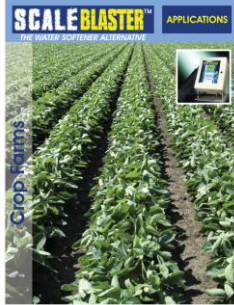
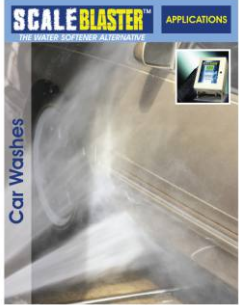
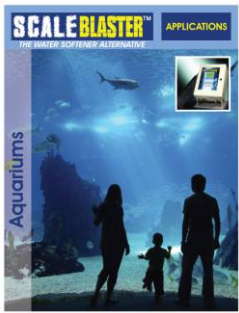
**SB-650** **Maximum 8" pipe** (non-magnetic)  
 2 ½" steel pipe magnetic (1 shot) 4" (recirculating)  
 Water hardness 1-100 gpg  
 Pipe type- copper, pvc, cpvc, pex, non-magnetic steel pipe  
 (in addition to magnetic pipe listed above)

**SB-ICE50** **Commercial Ice Maker use only**  
 Complete ice maker package – descaler & filter  
 Includes pre-wrapped pipe & coil  
 Includes 1000-gallon filter to reduce chlorine taste & odor

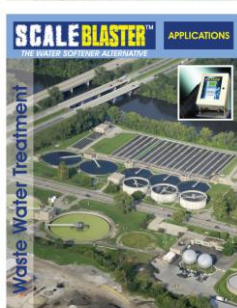
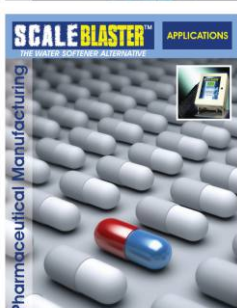
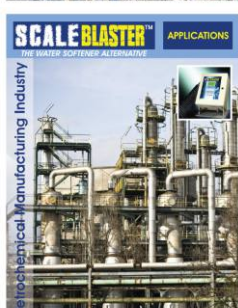
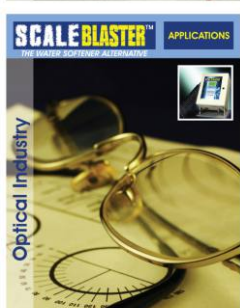
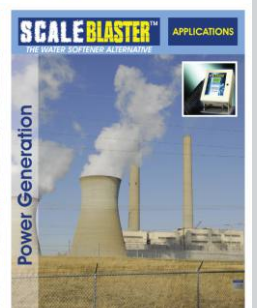
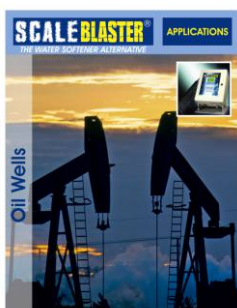
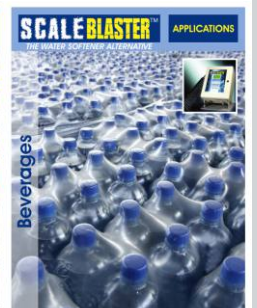
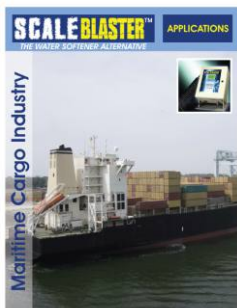
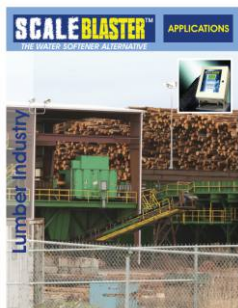
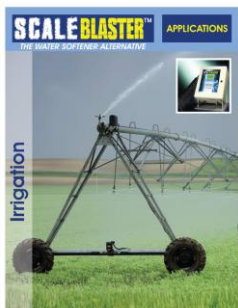
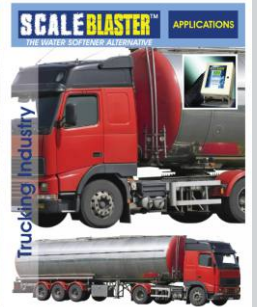
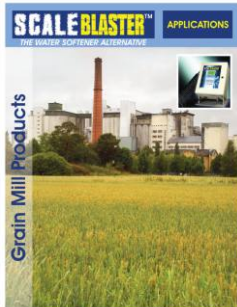
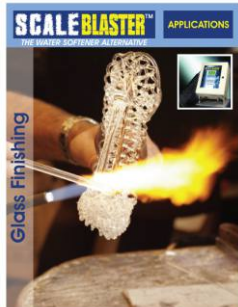
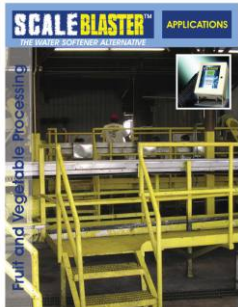
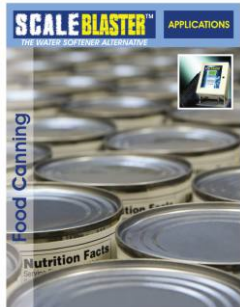
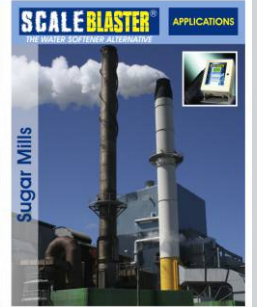
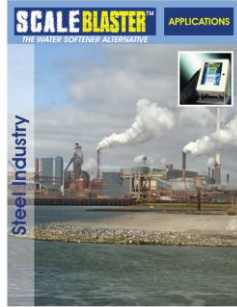
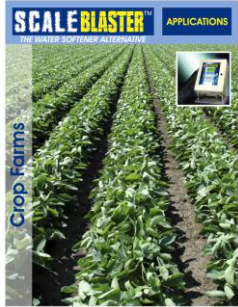
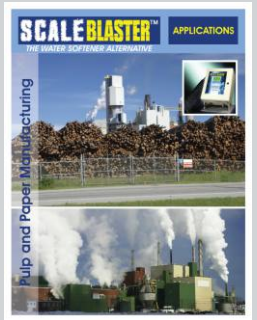
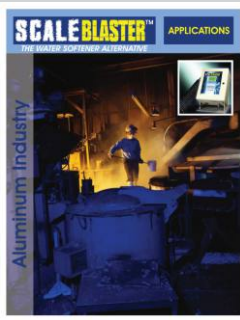
**DISH-1200** **Commercial Dishwasher Model**  
 Maximum pipe size 1 ½"  
 High powered, high frequency sweep - double coil, double output  
 Pipe type – copper, pvc, cpvc, pex, non-magnetic steel pipe

**All of the models work on 115 or 230 VAC automatically**

# Commercial Applications



# Industrial Applications



# Industrial Models

Scaling is a major problem for the industry. Until now, the only reliable solution was expensive chemical scale inhibitors. In an era of environmental concerns, these traditional methods are simply outdated.



## Prevents Scale Accumulation

Scale particles in the water receive an enhanced surface charge causing them to repel from each other and from pipe walls & equipment like tubes, jets and heat transfer surfaces

## Reduces Maintenance & Downtime

The constant necessity of monitoring equipment, adding chemicals, balancing water chemistry and cleaning shutdowns will be greatly reduced. **ScaleBlaster** itself requires no maintenance.

## Chemical Reduction

No handling and storage of hazardous chemicals on site. **ScaleBlaster** can significantly reduce or eliminate the need to use chemicals for the prevention of corrosion and scale.

## Reduces Corrosion

Reduces bio-corrosion by preventing the formation of bio-growth on surfaces where bacteria can attack the metal. Increases the cycles of concentration in cooling systems resulting in significant water savings. As the calcium carbonate precipitates in suspension it raises the waters TDS. As the waters TDS increases - the pH rises, thereby making the water less corrosive.

## Controls Algae & Bacteria

Algae and bacteria need to attach to something before they can feed and reproduce. **ScaleBlaster** keeps algae, bacteria and their food dispersed in the water, away from their biofilm breeding ground. The biofilm will die, too.

## Huge Energy Savings

The primary energy savings are a result in a decrease in energy consumption in heating or cooling applications. These savings are associated with the removal of scale formation. Just a 1/4" of scale buildup can increase energy consumption 40%.

## Removes Existing Scale

Any existing scale within the system is removed within weeks and never returns.

## Extends Life of Capital Equipment

**ScaleBlaster** will extend equipment life dramatically, maximizing the return on capital investment.

## Decrease Operating Costs

**ScaleBlaster** allows cooling tower systems to operate at higher cycles of concentration without causing any deposition, which reduces the overall cost of water consumption significantly.

## Improves Efficiency

**ScaleBlaster** keeps heat transfer surfaces free from scale allowing systems to operate under optimal design conditions.

## Environmentally Friendly

Discharge water regulations have made the disposal of chemically treated water a regulatory concern.

**ScaleBlaster** is non-invasive and adds nothing to the water, simplifying your compliance measures.



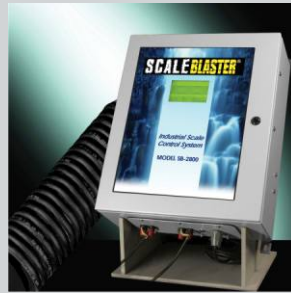
There are five industrial models for pipe sizes up to 40". All models come in a rugged metal box and have a full digital readout display.



SB-1200



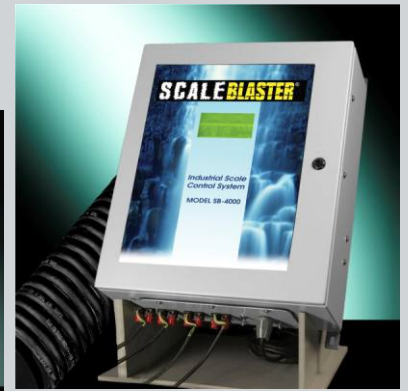
SB-2000



SB-2800



SB-3600



SB-4000



## Sizing the Proper Model

Before ordering any ScaleBlaster unit,, it is important to talk to your dealer or representative to determine the proper factors that go into that decision such as:

- A. Pipe size (diameter)
- B. Pipe type (copper, pvc, cpvc, galvanized, steel, ductile iron)
- C. Water hardness (gpg, ppm)
- D. Flow rate
- E. Application
- F. Location on equipment
- G. One shot or recycled water

**SB-1200 Powerful 6-amp output.**  
Maximum pipe size: Non-ferrous pipe - 12"  
Ferrous pipe - 3" (6" on recycled)

**SB-2000 Powerful 10-amp output.**  
Maximum pipe size: Non-ferrous pipe - 20"  
Ferrous pipe - 8" (14" on recycled)

**SB-2800 Powerful 2 x 10-amp output.**  
Maximum pipe size: Non-ferrous pipe - 28"  
Ferrous pipe - 10" (20" on recycled)

**SB-3600 Powerful 3 x 10-amp output.**  
Maximum pipe size: Non-ferrous pipe - 36"  
Ferrous pipe - 12" (24" on recycled)

**SB-4000 Powerful 4 x 10- amp output.**  
Maximum pipe size: Non-ferrous pipe - 40"  
Ferrous pipe - 16" (26" on recycled)

All of the models work on 115 or 230 VAC automatically

# ScaleBlaster Installations 1995-2012

References - If you would like a particular reference, please contact your ScaleBlaster representative. Due to the vast amount of marketing materials we distribute worldwide, we ask you do not contact customers directly. We will gladly arrange it for you.

## Chesapeake Energy, Oklahoma



## Shizuishi Power Plant - Yinchuan, China



## Fuxin Power Plant - Shenyang City, China



## Liaoning Power Plant – Jilin Province, China



## Geothermal Steam Wells & Power Plants Mexico – hundreds installed



## Las Vegas Cogeneration Plant – Las Vegas, NV



## City of Henderson (water reclamation facility) Henderson, NV



## American Bottoms Regional Wastewater Treatment Facility - Sauget, IL



**National Gallery of Art - Washington, DC**



**Cirque du Soleil – all locations worldwide**



**University of California  
(multiple units campus wide) - Davis, CA**



**HOK, the largest US based architecture engineering firm, specs ScaleBlaster into many of their projects.**



**Bayer**



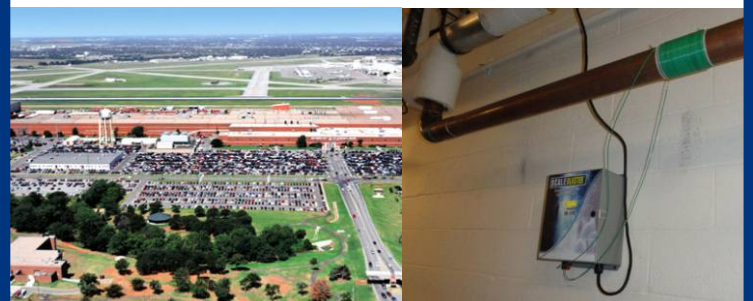
**Dow Chemical – multiple locations**



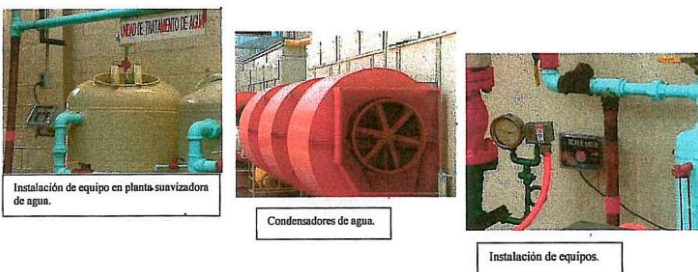
**Aberdeen Proving Grounds, MD**



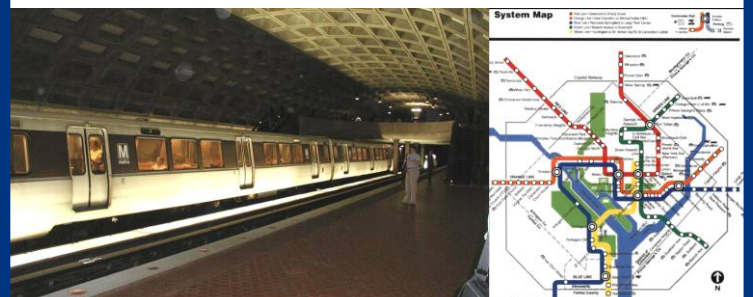
**Tinker Air Force Base – Oklahoma City, OK**



**Tupperware injection molding plant –  
Mexico City, Mexico**



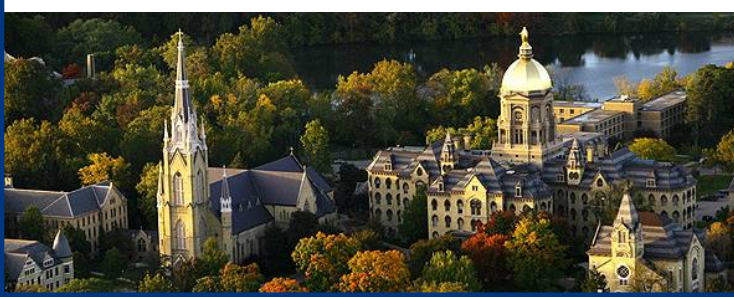
**Washington DC Metro Train Station Authority  
16 ScaleBlaster units installed**



**Various Cruise Ships - World Wide**



**University of Notre Dame, Indiana**



**Krusovice Brewery – Czech Republic  
(one of the world’s oldest breweries, est. 1517)**



**Schlafly Brewery - St. Louis, MO**



**Derby Lane – St. Petersburg, FL**



**Saddlebrook Resort - Tampa, FL**



**AUVIL Fruit Company - Washington State**



**Perdue Chicken Farm, MD**



**Cellynne Paper Manufacturer - Haines City, FL**



Authorized Dealer



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