... A PURELY

PHYSICAL

PROCESS AS

IT USES NO

CHEMICAL

ADDITIVES

It's what you should expect from your water

SOFPAC
WATER CONDITIONER & ELECTRONIC DESCALER

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Features:

* Patented computer generated triangulated waveform.
* Models capable to descale from 1" to 14" main water lines.
* High quality sealed plastic casing.
* Audible fault alarm.
* Audible testing system.
* Switch, for remote visual operating verification.
* Simple installation. No plumbing changes need.

Benefits:

* Low capital investment.
* Constant descaling to cold & hot water.
* No maintenance.
* No heavy expensive salt bags to handle.
* 5 year product warranty.
* Over 4 years proven technology.
* Stops lime build-up & dissolves existing scale. Water savings with no backflush.
* Environmentally correct.

How it Works...

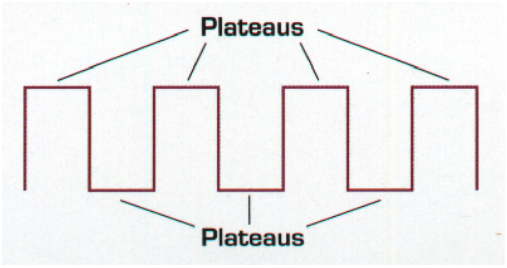
The hardness of water is determined by the number of particles contained in a measure of water. The SOFPAC system attacks and pulverizes the particles in the water chemistry with an electronic frequency, changing its polarity thousands of times per second. The particulates are neutralized and released by the water molecule. Water is now at its most aggressive level to clean any previous scale build up. Once scale is removed, water will be more soluble with detergents and enhance the total cleansing process.

Differences Between SOFPAC and Other Descalers

SOFPAC's patented triangulated waveform is unique since it continuously changes polarity without interruption. Other descalers use a square wave-form, in which the only time this frequency is actively attacking water is during the vertical rise of the waveform. During the plateaus water is untreated. A triangulated waveform has no plateaus which results in Continuous Active Treatment of water.

Square Wave Descalers (others)

The Square Wave descaler (Figure 1) modulates the frequency from 2,000 to 4,000 cycles per second. Their power is from 23 mA to 28 mA. There is no treatment of water during the plateaus of this type of Descaler.



there is no treatment of water during the plateaus

Triangulated Wave Descalers (SOFPAC)

The SOFPAC technology (Figure 2A), utilizing the triangulated waveform, modulates frequency from 2,500 to 7,000 cycles per second. Our power output is from 25 mA to 250 mA (Amperage will increase for larger models). Therefore, it provides more power and greater frequency with continuous triangulated wave form technology to effectively attack extreme hardness levels and high volume of water (as shown in Figure

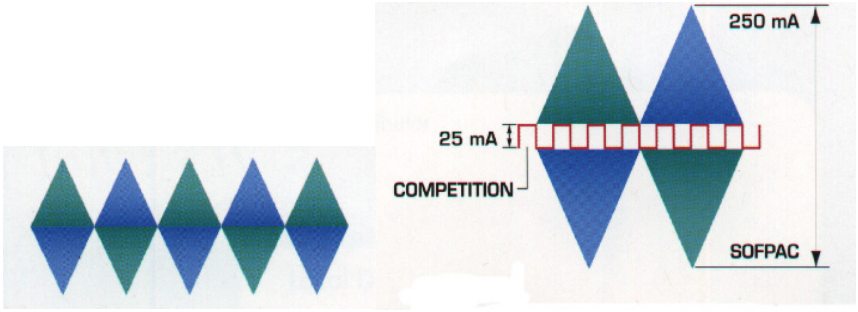
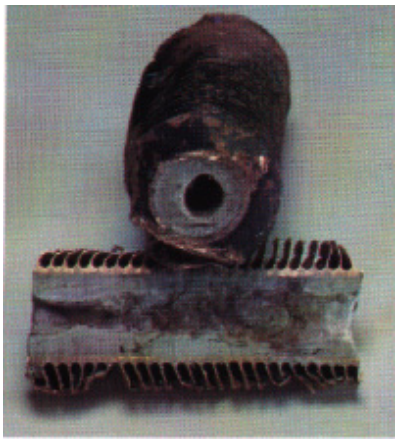


Figure 2A
Water is treated on reversal of polarity and provides continuous active water

Figure 2B
As shown above, when two types of wave generators are superimposed, the triangulated wave offers more power and a continuously Modulating frequency to water particles.



SOFPAC the only Choice for Industry

For industries using water, especially heated water, billions of dollars are lost because of equipment failure and loss of efficiency caused by scale build-up as shown in photo at left.

For example, many heat exchangers need to be replaced every three to five years due to performance degradation caused by scale build-up. A typical industrial water heater will lose 5-20% efficiency at the end of the first year. In five years, the efficiency level can be reduced by 70% if not treated. By eliminating scale deposits, the economic benefits are extended life service and reduced operating costs.

SOFPAC Quality Design with 5 Year Product Warranty

The electronic design is based upon the patented triangular waveform which ensures that the frequency field is operating continuously, unlike square wave generators.

The SOFPAC circuit design uses a current generator for the power output stage. Competitive units use a voltage source. The current generator ensures that the design current is delivered with field variations, the voltage output source cannot.

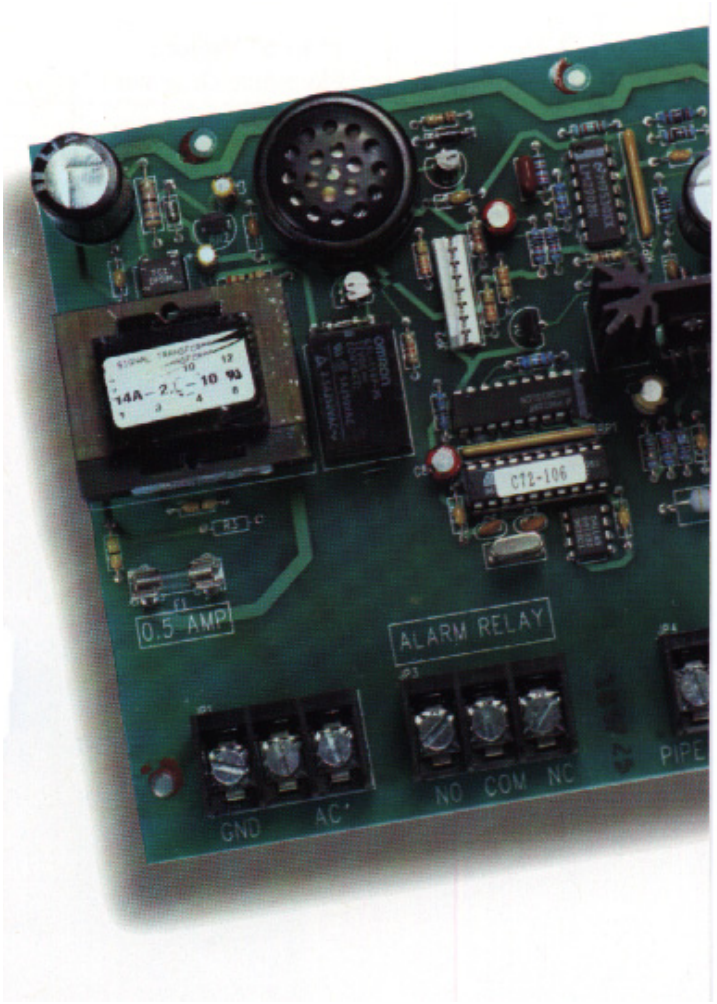
Quality components, state of the art design, and a computer generated microprocessor provide unequaled water conditioning and scale control

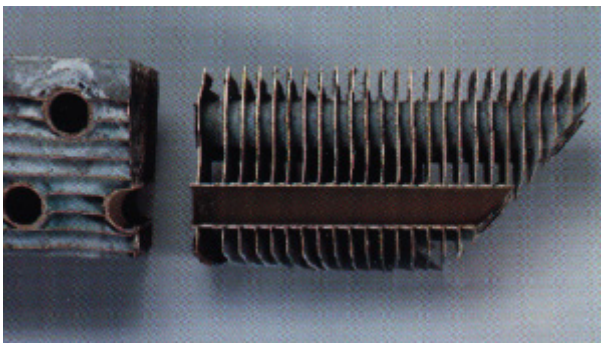
Case Study of a Commercial Application

In a field test at a coin laundry, the heat exchanger shown represents the effectiveness of the SOFPAC Descaler. The parameters are as follows:

Model 122 installed on a 2" main water line.

1. Nine month test period without chemicals.
2. Over 1 million gallons of water treated by
3. SOFPAC water conditioner.
4. Water hardness tested at 1722 grains of harness





5. Coil depicted was over 20 years old, installed in a 420,000 BTU hot water heater set at a temperature of 140°F.

As shown, there are no traces of scale build-up since the installation of the Model 122 SOFPAC Water Conditioner and Electronic Descaler. The laundry continues to operate with clean coils, valves, and pumps thus enhancing customer satisfaction.

ENVIRONMENTALLY SAFE

SOFPAC offers a physical process of conditioning water without environmental consequences. It does not add unwanted chemicals to the aquifer or potable water. It is therefore, healthier and environmentally correct to choose the SOFPAC water conditioner.

Model/Specification

Model No.	Description	Dimension	Voltage	Optional Voltage
021	1" Water Line Electronic Descaler	3-3/4"W x 5-1/2" x 1-11/32"	120V 60/50Hz	208/240 60/50Hz
122	1" to 2" Water Line Electronic Descaler	6-1/2" x 6-5/16" x 3-15/32"	120V 60/50Hz	208/240 60/50Hz
224	2" to 4" Water Line Electronic Descaler	8-3/8"W x 7-9/32"H x 3-27/32"	120V 60/50Hz	208/240/480 60/50Hz
426	4" to 6" Water Line Electronic Descaler	Please Call	120V 60/50Hz	208/240/480 60/50Hz
628	6" to 8" Water Line Electronic Descaler	Please Call	120V 60/50Hz	208/240/480 60/50Hz

Applications

- Commercial & Industrial Laundries
- Car Wash
- Housing and Apartments
- Hotel-Motel
- Nursing Homes
- Industrial Plants
- Dry Cleaners
- Restaurants
- Coin Laundries
- Cooling Towers
- Boilers
- Hot Water Systems

Classification of Water Hardness

mg/liter	grain/gal	Description
0-17	0-1	Soft
17-60	1-3.5	Slightly Hard
60-120	3.5-7	Moderately Hard
120-180	7-10.5	Hard
Over 180	Over 10.5	Very hard

For extremely hard water please contact SOFPAC Corporation for specially designed models

Shipping FOB -- SOFPAC CORP. Note: units can be shipped UPS
Normal lead time is 2 weeks of order. Models 021 to 224 only. All other models call for details.
Models available up to 14" water lines. Please inquire for lead time and pricing.
SOFPAC is designed to effectively condition water when installed on non-magnetic material, i.e., copper, PVC and stainless steel pipe.

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  Note: Unit can br shipped Ups
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