The most important benefits:

- Prevention of scale forming
- Increased life of water related equipment
- Reduced mechanical damage and failure
- Environmentally friendly, uses no chemicals or salt.
- Removal of existing scale layers
- Lower energy bill
- Short term payback of investment
- No shutdown of production process necessary during installation.

Hard water...

The problems...

Hard water substantially increases energy consumption, necessitates down-time for cleaning and results in the early renewal of capital equipment. Executives involved in running a business, local government departments or institutions are under increasing pressure to cut costs and become more efficient. However this must be carried out with due regard to increasing environmental legislation.

The solution

From its many years experience in treating hard water problems, Scalewatcher has refined and developed its electronic descaling systems. These provide companies with a clean, effective and environmentally friendly means of removing and preventing lime scale build-up. Advances in micro-electronics have enabled Scalewatcher to produce a system which is so compact that it can be installed in small or normally inaccessible spaces. Ideal for commercial applications such as laundries, hotels, garages, sauna's, small buildings, greenhouses, farms, hairdressers and bakeries. The Scalewatcher can be installed and removed from a system without opening the pipe. Making installation, operation and testing very easy.

Heating scale wastes money.

Scale works like an isolator between the heating element and the water to be heated. While a clean heating element passes the energy to the water and so cools the heating element too, a scaled element cannot transfer all the energy to the water circulation. Therefore:
- "Scaled Heating" takes more time.
- "Scaled Heating" takes more energy.
- "Scaled Heating" overheats the heating element itself and reduces lifetime substantially.

The cost of scale build-up

Percentage increase in fuel costs due to scale build-up in an average water system.

1.5 mm	3 mm	6 mm	9 mm	13 mm
0.06"	0.11"	0.24"	0.35"	0.5"
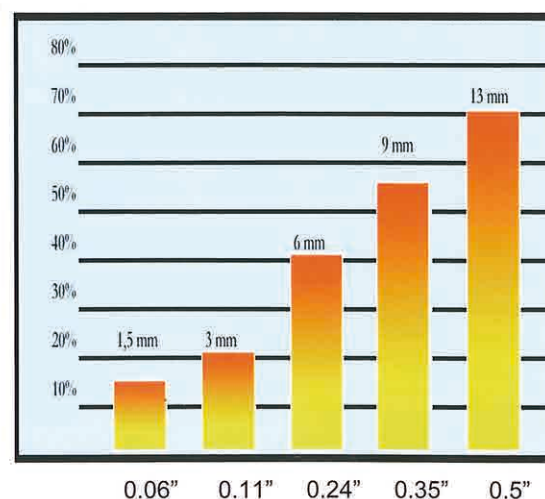
Application reports show other benefits & savings

Satisfied customers reported that Scalewatcher treatment:

- Improved drinking water taste and so was preferred by animals and humans.
- Reduced the amount of detergents and even improved cleaning results.
- Greenhouses could reduce their product's time to market.
- Reduced the amount of chemicals in various applications.
- Reduced pipe corrosion significantly.

Savings on water and energy will be beyond imagination when Governments enforce this kind of water treatment

On energy:
Hot water boilers
Steam boilers.
Chillers.
Coffee machines.
Steam sauna's.
Heat exchangers.

On water:
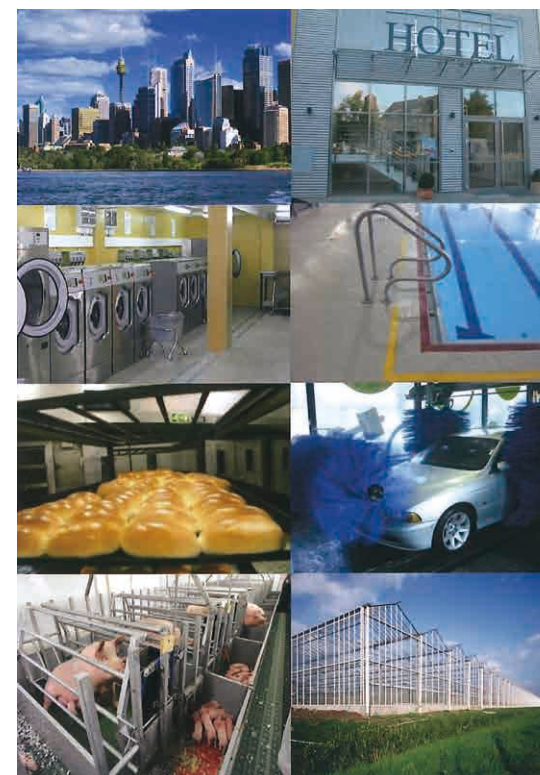Cooling towers.
Sprinkler systems.
Steam boilers.

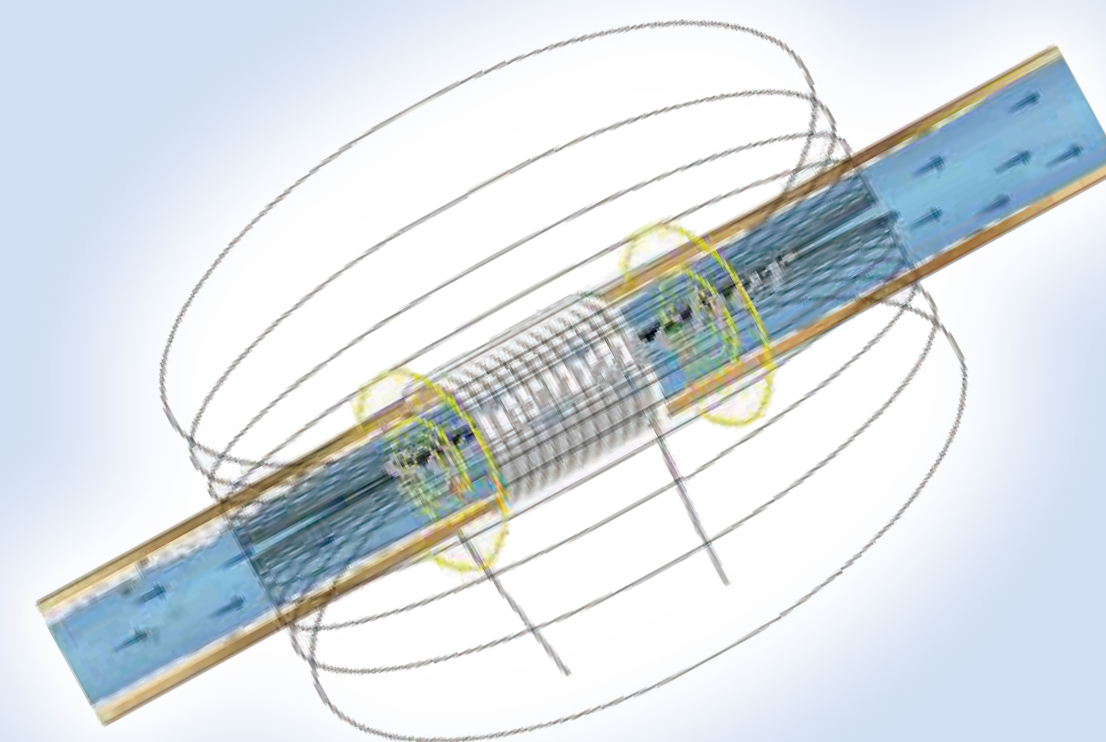Application reports. are available on request.

Tested & Proven

We started as the pioneering market leaders in electronic water conditioners for home and industry back in 1989. Since then Scalewatchers have been installed in the following sectors with good performance.

輸入元
スケールウォッチャー ジャパン

販売元
有限会社 ビー・テップ

本　　社　群馬県太田市由良町 956-3
〒373-0036　TEL.0276-30-4313 FAX.0276-30-4314
URL　　　http://www.be-tep.jp
E-mail　　info@be-tep.jp

Scale*watcher*®

周波数変調電磁場水処理装置

ScaleWatcher Japan

世界の水処理装置スケールウォッチャー　環境ISO14001に大きく貢献

薬品を使用せず、水のラインを止めることなく、給水や温水設備の赤サビ除去や配管の延命を可能にするスケールウォッチャーは環境ISO14001に大きく貢献し、病院・学校・オフィスビル・マンション・ホテル・商業施設・プールやレジャー施設から軽工業・重工業・発電所に至るまで多くの実績を積んでいます。

スケール結晶体
スケール因子（炭酸イオン等）
スケール因子（カルシウムイオン等）
スケールウォッチャー
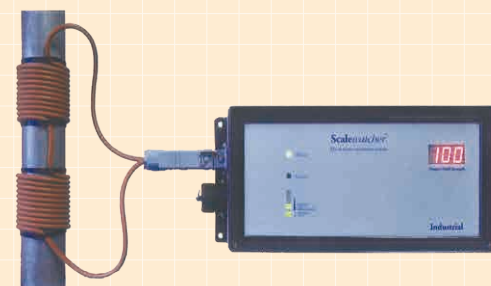①核の誕生
②小粒子結晶（分散）
反発
FLOW
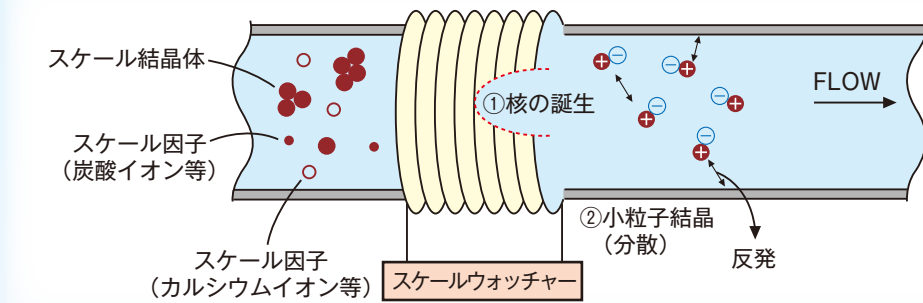
一世紀前、初めて登場した水処理器は磁石でした。スケールウォッチャーは全く新しい周波数及び振幅による水処理技術で1988年に誕生してから長年にわたり最適化されてきたものです。配管や設備にスケールが堆積するのを防止したり除去するのに非常に効率的です。薬品を使用しない環境にやさしい世界で信頼の実績を積んだ唯一無二の製品で、今日では最大3mの管径にも対応する製品が用意されています。
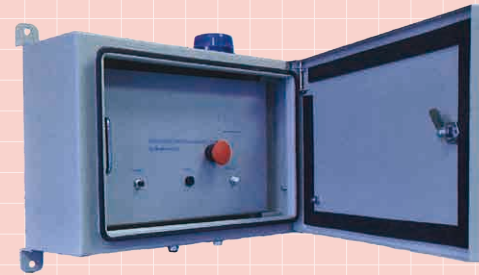
商業用モデル

重工業用モデル

軽工業用モデル

高出力　重工業用モデル

プール
塩素投入量35%削減

スーパーマーケット
バックヤードの臭気や床のすべりを改善

地熱発電
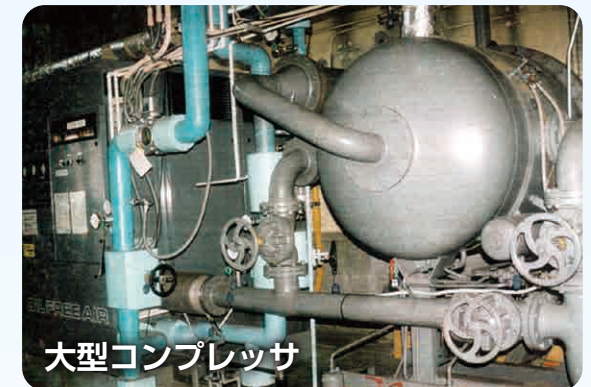
農業用ハウス
パイプの詰まりを防止
水と肥料をムラ無く供給

商業用モデル
洗剤や薬品の削減

動物病院

集合住宅
配管の延命と排水の改善

重工業用モデル
熱効率の改善
メンテナンス費用の軽減

小型クーリングタワー
各工場で多く利用されています

軽工業用モデル
配管内のスケール付着防止と排水の改善

大型コンプレッサ

高出力重工業用モデル
薬品コストの大幅削減
冷却水の安定供給

温泉施設
温水の安定供給
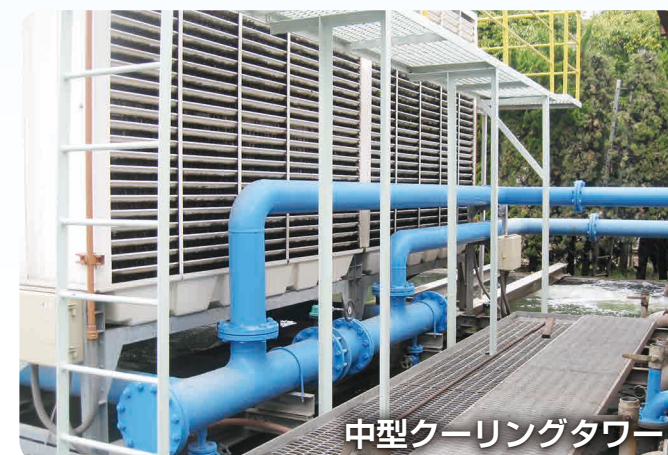
中型クーリングタワー
錆の軟化と冷却効果の改善

鉄鋼工場

火力発電