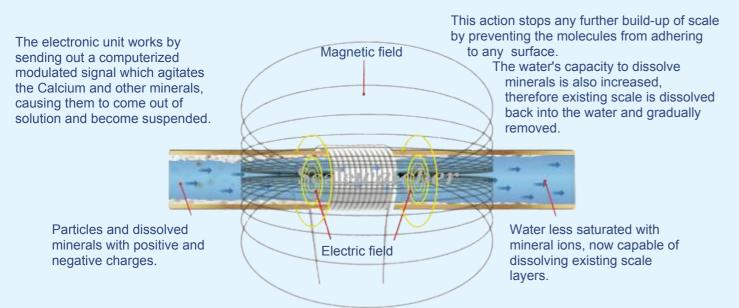
Scale*watcher*[®] The simple solution to hard water problems

Scalewatcher[®] Industrial The simple solution to hard water problems

Operating principle



Technical specifications

Components:

Each model comprises of a Scalewatcher unit, signal cable, ties, plugs and clear instructions.

Power:

Units can be connected to either 110 VAC or 230 VAC 50/60 Hz. Optional: 3 phase, solar power or 24 Volt direct Safety: current.

Materials:

Electronics hermetically sealed. Enclosures are made of aluminum (IE series) or epoxy coated stainless steel.

Controls & Indicators:

All units have digital displays showing correct operation,

Pipes with a diameter of up to 120 " (3 m) can be treated with the Industrial series. Scalewatcher systems are also available for residential and commercial applications capable of treating pipes ranging from 1/2 (1.2 cm) to 8 " (20 cm) in diameter regardless of pipe material. All units carry a five year warranty covering components and workmanship. And what is more, we give a twelve months money back guarantee.

Reliability:

Only high quality electronic components are utilized, including a custom designed chip (IC) controlling signal generation processing. Components have a life span of over 20 years.

The Scalewatcher conforms to electrical safety standards. The electronics are sealed with resin. The output is safe to both personnel and sensitive equipment. There is no electrical contact between pipe and coil. The low output voltage is non hazardous.

Your supplier:



The manufacturer has a policy of continuous improvement of its products and reserves the right to amend product specification without prior notice Scalewatcher® is manufactured in the USA by Scalewatcher North America Inc., B & D Ingenieursburo B.V. The Netherlands, Scalewatcher Vietnam Ltd and Scalewatcher (Thailand) Co., LTD. European Patent No.0357102. USA Patent No. 5074998. Website: www.scalewatcher.com

EASILY INSTALLED AND MAINTENANCE FREE!

Scale watcher Industrial The intelligent alternative for hard water treatment in Industry

The most important benefits:

- Maintenance free operation
- Low operation costs
- Completely non invasive, no shut down of production process necessary
- Saves on water, fuel and energy consumption Short term payback of investment
- Production levels will rise
- Environmentally friendly.

HARD WATER....

THE PROBLEMS

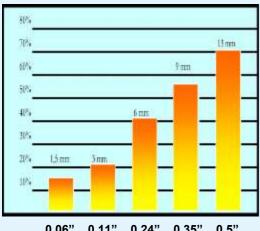


Scaling costs companies each year millions in down time, lost production, early replacement of capital equipment and increased energy usage. Companies are under increasing pressure not only to cut costs and become more efficient, but to do so in environmentally friendly ways. Compounding this problem is the public's increasing focus on environmental concerns and the ever-expanding government legislation in this area.

THE SOLUTION

To aid in the solution of this dilemma, Scalewatcher systems have been developed from many years of experience in treating scaling problems throughout the world. They are specifically designed to provide today's industry with an effective proactive and environmentally friendly alternative to chemical scale build-up prevention or mechanical descaling. Companies find that solving their scaling problems with a Scalewatcher provides the benefits of scale prevention and reduction of old scale layers without the disadvantages of traditional methods. In addition to preventing scale build-up in boilers and cooling towers, Scalewatcher has also eliminated scaling problems in compressors, water-fed plant and machinery, steam ovens, de-inking plants, liquor lines of paper mills, condensers and air conditioning plants. Lime scale, gypsum and bacterial scaling are examples of deposits which have been treated with Scalewatcher.

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



0.06" 0.11" 0.24" 0.35" 0.5"

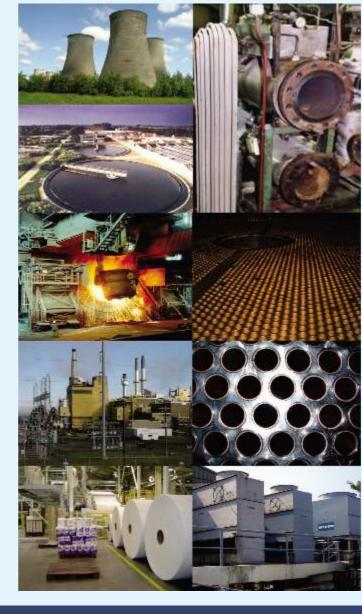
Heating scale wastes money. A scale layer on flame pipes of a steam boiler will increase fuel consumption.



Other benefits & savings

It stabilizes the pH and reduces the use of chemi- cals. Less corrosion. Reddish water will become clear. Rust will be converted to magnetite. Slime in heat exchangers or cooling towers will disap- pear. Surface tension of water	On energy: Hot water boilers Steam boilers Chillers Heat exchangers On water: Cooling towers Sprinkler sys- tems
Surface tension of water	
will decrease.	Steam boilers
Minute traces of H ₂ O ₂ are	
formed.	

energy: water am boilers changers water: oling towers



The preferred solution to hard water and corrosion problems.

Tested & proven

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

Paper manufacturers - Steel manufacturers - Food and beverage - Chemical Industry - Sugar refineries - Oil production - Waste water treatment - Slaughter houses - Power plants - Cement plants - Cable factories -Plastic molding - Texile factories - Municipal water suppliers - Large buildings - Shipping.

Protect equipment - Reduce maintenance & down time- Prevent & eliminate scale

Water heaters - Evaporative coolers - Reverse osmosis systems - Pumps - Valves - Boilers - Radiators -Irrigation & Misting systems - Heat exchangers - Pipe lines - Municipalities - Oil coolers - Cooling pads -Chillers - Flame pipes - Aerators - Oil pipe lines -Condensers - Centrifuges - Belt presses - Zebra mussels - Scrubbers - Compressors.

QUALITY SERVICE - BACKUP & EXPERIENCE

Effectively developing and supporting new technology calls for an understanding of the application. Scalewatcher's success stems from its commitment to the elimination of scale since 1989. More importantly, this experience was gained by working directly with customers from all sectors of industry. Many of the applications often required Scalewatcher units to be tailored to the customers individual needs, e.g. the safe use in explosive atmospheres, or for treatment of fluid streams containing alternate mineral ions such as ferric aluminum, sulfate, calcium oxalate, silicates, seawater etc...

Savings will be beyond imagination when Governments enforce this type of water treatment.

