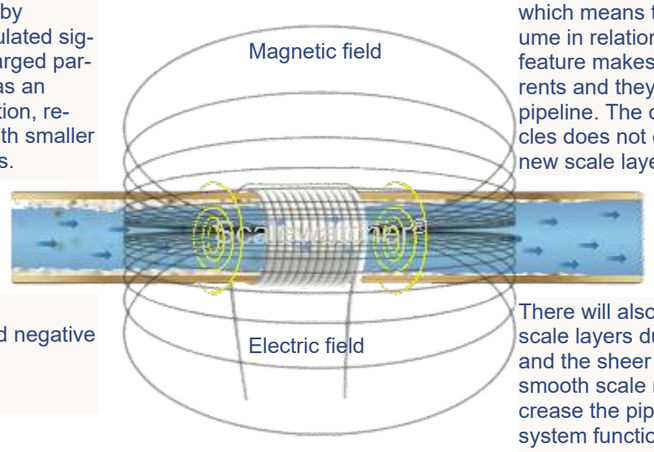
Scalewatcher® Commercial

THE SIMPLE SOLUTION TO HARD WATER PROBLEMS

How does it work?

The electronic unit works by inducing a complex modulated signal which agitates the charged particles in the water. This has an influence on initial nucleation, resulting in more crystals with smaller size and rounded surfaces.



Particles and dissolved minerals with positive and negative charges.

This treatment creates idiomorphic, scattered crystals, which do not form matted structures. They have a rotundas shape, which means that they have a larger volume in relation to a smaller surface. This feature makes them sensitive to water currents and they are easily flushed out of the pipeline. The deficit of active scaling particles does not only prevent formation of new scale layers.

There will also be a slow reduction of old scale layers due to the law of mass action and the sheer force of the flowing water. A smooth scale reduction will slowly increase the pipe capacity and so makes system functioning more efficient."

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: Solar power or 24 Volt direct current. Energy consumption less than 77 kWh/year. (CMN8)

Materials:
Electronics hermetically sealed. Enclosures for indoor use are made of high grade thermoplastic. Enclosures for outdoor use are made weatherproof.

***Controls & Indicators*:**
All units have indicators showing correct operation, providing power applied and signal coil connected.

Reliability:
Only high quality electronic components are utilized, including a custom designed chip (IC) controlling signal generation processing. Components have an expected lifespan of over 20 years.

Safety:
The Scalewatcher conforms to electrical safety Stand and is CE certified . The electronics are sealed with resin for durability. 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.

Pipes with a diameter of up to 8 inch (20 cm) can be treated with the commercial series.
Scalewatcher systems are also available for residential and industrial applications capable of treating pipes ranging from 1/2 to 120 inches (1.2 cm to 3 m) in diameter regardless of pipe material.

All units carry a five year warranty covering components and workmanship.

Your supplier:

Scalewatcher® Commercial

THE SIMPLE SOLUTION TO HARD WATER PROBLEMS

EASILY INSTALLED AND MAINTENANCE FREE!

Scale*watcher*® Commercial

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.

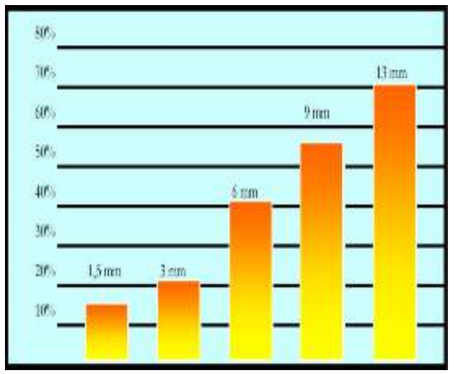
Heating scale wastes money.

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.



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.

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.

Commercial:
- Hotels
- Sauna's - Spa's
- Swimming pools
- Laundries
- Car wash
- Bakeries
- Museums
- Hair dressers
- Hospitals
- Restaurants
- Office and apartment buildings

Industry:
- Paper manufacturers
- Steel manufacturers
- Food and beverage
- Chemical Industry
- Oil production
- Waste water treatment
- Slaughter houses
- Power plants
- Cement factories
- Cable factories
- Plastic molding
- Texile factories
- Municipal water suppliers

Shipping:
- Merchant marine
- Ferries
- Fishing boats
- Navy
- Cruise ships

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

What about these unseen extra fuel costs?