

BARON TECHNO PRODUCTS

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MOBILE: 9246850892, 7097212013

Mail: barontechnoproducts@gmail.com; Web:
www.barontechnoproducts.com.

We take pleasure in introducing ourselves as Authorized
Manufacturers of the “**BARON**”.
Electronic water conditioner for **HOME, FARM, AGRICULTURE and INDUSTRY use.**

BARON Electronic Water Conditioner- A Computer controlled unit, has been designed & developed using, RODF Technology, the latest version of Micro controller which treats the water with the help of External Antennae wires to be wound around the pipe.

The D.C. Power supply unit for the micro controller has been designed to withstand wide voltage fluctuations i.e. from 150 V.A.C to 450 .A.C. (Unit can be operated on 12V DC battery)

In the process, Electrons are induced into the water flow, which changes the adhesive properties of Calcium Carbonate crystals and other minerals to repel rather than adhere to pipes, fixtures and remain suspended in the water.

This action stops any further built-up of scale and because the solubility of the water is increased existing scale is taken back into water and gradually removed.

Incidentally water conditioner is environmentally friendly and no chemicals are used.

It is easy to install and practically maintenance free. It is a very versatile system, changes in temperature/pressure/flow rate is of no consequence.

For further details, if required, please feel to write/contact us **G.B.AMARNATH**
Mobile no: **07097212013, 09290459972.**

Yours sincerely,



For

FOR

BARON TECHNO PRODUCTS

BARON-Electronic Scale Control

TECHNICAL DESCRIPTION

Problems Caused by Hard Water

Calcite, the main cause of scale, is the most common form of calcium carbonate and occurs naturally as a natural ingredient of chalk, limestone and marble. Water passing over and permeating through such rocks dissolves calcite when this water subsequently flows through a water system the calcite precipitates out to form a very hard scale on surfaces.

When hard water is heated, or evaporation takes place, the problems are exacerbated. Calcite forms ever growing layers of rock-like deposits until eventually pipes, jets and equipment become totally blocked.

The problem increases as the water gets hotter. Water containing 145 ppm of calcite, flowing at 3.5 litres per minute, produces in one year 4.8 kilograms of scale at 60°C. At 80°C this rises dramatically to a massive 29.9 kilograms!

Scale wastes both energy and financial resources just one eighth of an inch of scale reduce heating efficiency by 25%. It is also very expensive to remove de-scaling pipes and boilers.

The Benefits of Natural Hard Water

Natural hard water contains minerals and salts which in the main have positive health benefits. Medical evidence suggests that there are lower incidences of heart-related diseases in hard water areas.

The Baron Process

Baron is a unique, efficient, energy-saving device designed to eliminate the problems of hard water, whilst retaining the natural benefits. This is achieved by changing the size of the particles of precipitated compounds, by aiding the ability of crystals to form their shape, and by altering the solubility of compounds within liquid.

Baron takes the process of induced ionization to its ultimate stage. The principles of Magnetohydrodynamics (MHD) are applied by passing Baron's patented signal through a coil wrapped around the pipe to be treated. The signal consists of a frequency modulated (FM) waveform within the audio frequency (AF) bandwidth. This inaudible sonic frequency signal sets up a dynamic field around and through the coil, pipe and water, and modifies the calcium carbonate crystal nuclei.

The nuclei upon which the crystals start growing are minute in size and have charged surfaces in their natural condition within the water. When they pass through the field, these naturally charged nuclei encounter considerable forces as the field interacts with them. The field acts at the surfaces of the nuclei and modifies the nature of the electrical charges and this ionization effect thus alters the growth rate and pattern of the crystals in general and on specific plane

2. The presence of the large crystalline shapes disrupts the equilibrium between the fluid and any existing scale. Smaller particles in general, dissolve more easily, so the larger particles will have reduced the levels of calcite in solution. Hence, existing scale deposited by precipitation will soften and gradually be absorbed into solution and flow out of the system. In areas of still water, e.g. tanks etc., the soft scale would settle to the bottom and could then be removed simply by flushing.

It has been established that the physiochemical process already described is more efficient because the signal energy is dynamically changing. By changing the signal field at high audio frequencies, unique to Baron, the energy imparted to the nuclei is considerably accelerated. The crystal intra molecular structure is rapidly broken down and the occurrence causes a fast dissolution of any existing scale forming molecules.

An important property of Baron processed water is that the charged crystalline shape growth will remain in that state for up to 7 days. Thus in stored water systems the effect is much longer lasting than other ionizations methods, retarding the reversion back to the smaller nuclei structures that are readily precipitated.

Portability and Water Quality

The calcium carbonate remains in the water as soft crystals, not as hard scale therefore water treated with Baron will reduce the risk of Gallstones. Minerals, which have now been taken out of solution and crystallized to a size greater than 1 micron, could, if desirable, be reduced using a good quality on micron ceramic or stainless steel filter.

The generation of hydrogen peroxide is in minute quantities and readily converts back to water and oxygen. It is widely used as an antiseptic mouth wash, therefore presents no hazard to health.

The sodium content and degree of acidity (PH) remain unchanged. The generation of carbon dioxide rates the water but is not enough to cause bubbles.

If calcium sulphate, which causes scum as opposed to scale, is present it will also undergo a change. This increases the effectiveness of soap/detergents.

Baron is Unique

Baron uses a patented method of softening water without resorting to chemicals and should not be confused with other devices that have proved to be only partially effective. The fact that Baron can be seen to actually de-scale a water system is proof of its effectiveness. The low cost investment quickly reduces energy, maintenance, and repair/replacement costs and will pay for itself many times over during its expected life-span of 20-30 years.

Baron is your best choice for lime scale removal, lime scale problems. Control lime scale with Baron

Recommended for:

Household Applications: dishwashers, washing machines, coffee makers, swimming pools, hot tubs and boilers.

Industrial Applications: Ice factories, soft drink manufacturers, distilleries, poultry farms, paper and steel mills.

Benefits:

- **Skin feels softer.**
- **Hair feels silkier.**
- **Soap lathers and rinses easier.**

- Water heaters operate more efficiently.
- No salt or chemicals required.
- No plumbing; no maintenance labor and cost.
- For use on all types of pipes up to 1" diameter, including copper PVC and GI.

Time frame and what to expect:

Day 1: The Baron action immediately starts to loosen existing scale on both the hot and cold systems.

Day 5 and Onwards: Scale begins to break down and come off water heater elements and tanks. Most microscopic particles will flow through your water system. You may notice small particles in the water coming from the hot water tap.

Day 10 to 16: It should be easier to wipe and clean ceramic, plastic, glass and metal surfaces. By now the quantity of bath soap, dish soap, laundry detergent and laundry softening agents can be reduced.

Day 16 and Onwards: scale should have softened on faucets, showerheads, and frequently used appliances such as coffee makers. With the continuing break down and reductions of scale from the heating surfaces of water heaters, water should heat up quicker using less energy.

After 1 – 2 months: Any Scale Crust or stains in toilets or under faucets will have started to soften and will be easier to remove. No new stain or crust should form. *Depending on the water hardness in your area, full effects can take up to 12 weeks, especially if the system has been heavily scaled over many years.

Q Where do you attach the water conditioner?

A. Anywhere on your cold water pipe between the input and the boiler – suggested locations are included with the installation instructions.

Q Does it cause interference?

A. The conditioner operates at very low frequencies and is unlikely to interfere with domestic electronic equipment.

Q Is it harmful to young children?

A. No. It will be helpful to those with sensitive skin.

Q Where does the lime-scale go?

A. The lime-scale changes state and is carried out with the water instead of sticking to pipes, boilers and fittings; a little will fall out of harms way to the bottom of the hot water tank but will eventually be cleared by the processed water continuously passing through the tank.

Q Do I need to call a plumber to fit the water conditioner?

A. No. There is no plumbing required, the conditioner only requires a simple DIY installation.

Q My child suffers from eczema and other skin ailments. Will your conditioner help?

A. We cannot make medical claims but we have experience of cases where such people have benefited. By removing the lime scale the water will be softer and kinder to the skin and hair.

Q How does a small device like this remove lime-scale from the boiler and pipes throughout the house?

A. A magnetic field is created around the pipe which changes the state of the lime-scale in the water which passes through this magnetic field. This treated water then travels throughout the system.

Q Is the water safe to drink after treatment?

A. Yes. The treated water still has all the natural life giving minerals retained. We do not use salt.

Q Are the electronic water conditioners water softeners?

A. No. However as the lime-scale has been removed it has made the water softer.

Q Will there be a salty/saline taste to the water?

A. No. Because there is no salt used in the process.

Q Do you need to purge or replenish salt?

A. No. There is no salt used in the process

Q How much space is required on the cold water pipe?

A. Two inches/5cm.

Q How long will it take to see signs of softening calcium carbonate (lime-scale)?

A. This will depend on the hardness of your water, the amount of lime-scale build-up over how many years and the rate of flow of water through the system. Be patient. It could all be cleared in a matter of weeks. Our advice is FIT & FORGET and gradually you will see and feel the improvement. So will your plants watered with treated water.

Q What happens to treated water left in the water tank and not used for three weeks or more?

A. The water reverts in 7-10 days, but will quickly be rejuvenated when you return and start using the water again. If you are concerned about the quality, quickly drain the main tank when you return and then refill it with treated water

Q Can I install the device vertically?

A. Yes, it can be installed in any plane.

Q How will I know the device is working?

A. Four LEDs confirm correct operation.

Q Is there any servicing or maintenance required?

A. No.

Q Does the unit affect the water pressure?

A. No.

Q Can your units be fitted to copper and plastic pipes?

A. Yes. But NOT on lead pipes.

Q Do I still need to have a separate hard water tap?

A. No. The healthy minerals are still in the processed water.

Q Will your units save us money?

A. Yes.

- Because it will clear lime-scale in your boiler so that your Electricity or Gas only has to heat the water directly; not through the lime-scale.
- All equipment in the system will run more efficiently therefore less likely to breakdown. – Reduced service bills.

Q Will the showerhead, mixer tap and toilets operate better?

A. Yes.

Q Do you require power to your units?

A. Yes. Elf, Super Imp and the Industrial heavy duty unit require mains electricity.

We supply power transformers to suit your site. We also supply 2 meter power extension cables if your power point is more than 6 feet away.

But the H2 Flow DOES NOT require any power.

Q What maintenance is required?

A. None, fit it, switch it on and forget about it.

Q How much space is required for the aerial

A. Approx.2" (5 cm)

TECHNICAL DETAILS:

BARON

Electronic Water Treatment, De-scaling and Softening

Electronic water softeners are units that help prevent the build-up of lime scale (Calcium and Magnesium) on the inside wall of water pipes. Scale is an accumulation of mineral deposits absorbed from a well, lake or stream. By the time it reaches the user's home, water has passed over and permeated through limestone, marble and other minerals, and has dissolved a form of calcium carbonate, commonly known as calcite. When this hard water is stationary, heated or when evaporation takes place, calcite precipitates as layers or rock-like deposits in pipes, heating elements and around fixtures and vessels.

SCALE REMOVAL, LIMESCALE PREVENTION, ELECTRONIC DESCALING, ELECTRONIC WATER SOFTENERS

Welcome to BARON Digital Electromagnetic De-scalar and water softener for Lime scale and Hard Water Fouling. This page is dedicated to our Electromagnetic & Ultrasonic Lime Scale Prevention units for the elimination of scale and microbes in water, waste water and effluents for all residential and industrial applications. We are specialist water treatment engineers delivering engineered and serviced solutions to fouling problems by water scale, corrosion, algae, bacteria, viruses and bio-films.

Pipe blocked by scale

BARON uses a unique and complex broad-spectrum energy form that produces an inaudible ultra-sonic impulse that changes the electrical and physical properties of the scale-forming calcium molecules.

This causes the adhesive properties of the calcium carbonate crystals and other minerals to repel rather than adhere to pipes, fixtures and remain suspended and dissolved in the water. This action stops any further build-up of scale and because the solubility of the water is increased, existing scale is taken back into the water and gradually removed. Installation of our disinfection and de-scaling units is simple and usually involves in line with plumbing or a wrap around jacket with no plumbing or cutting into pipes, this depends on site situation and customer's convenience.

We are pleased to offer the best of Scale Prevention Systems and other non-chemical disinfecting treatments for drinking water and waste water fouling problems to all types of Industry, Commerce and the Public Sector.

Our de-scalers handle any commercial application from 1/4 " up to 8" pipe size. Designed for indoor/outdoor installation. Extremely powerful, up to 20 Amps of power. Easy to install, without cutting pipes. Automatically works on 220 VAC with our internationally approved power supplies.

Our latest design incorporates static plus dynamic electro-magnetic fields with the widest range of automatic frequency sweep in the industry and more recently random noise generated Spread Spectrum technology which considerably widens the range of frequencies injected into the water.

QUOTATION

Sl.no	DESCRIPTION/ITEM	QTY	UNIT PRICE	AMOUNT
1.	Electronic Water Conditioner 2'inch	1	35,000-00	35,000-00
	Electronic water conditioner 1 inches	1	22000-00	22000-00
2	Jumbo Bag with antiscalant balls	1	5500-00	5500-00
	Jumbo filter	1	4000-00	4000-00
3.	Dosing set	1	8000-00	8000-00

Jumbo filter 650/-each min 10 nos
Dosing chemical 375/- kg min 10 kgs

TERMS & CONDITIONS:

PAYMENT : 100% Advance

DELIVERY: within in 7 working days on site from the date of receipt of valid P.O. GST 18% EXTRA ABOVE PRICE

VALIDITY: This offer is valid up to 90 days from the date of offer.

PRODUCTS

For BARON TECHNO



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