



Fluid Dynamics

Hard water solutions since 1973

www.treatwater.com



Non-Chemical Water Treatment (NCWT) System



Before



After



PRODUCTS BEAR

1

Year

100% Money Back
Guarantee*

10

Years

Prorata
Warranty*

20

Years

Product
Life Span*

*Terms & Conditions Applied

**SCALE-FREE
WATER THROUGH
CATALYTIC TECHNOLOGY**
(The latest technology patented worldwide)

WORLD LEADER OF NON CHEMICAL WATER TREATMENT TECHNOLOGIES

About the company...

Fluid Dynamics International Ltd., UK

Company Head Quoter-London Founded in 1973, Fluid Dynamics International Ltd. is UK's and Ireland's one of the most experienced water treatment product companies; Company Head Quoter-London. With an unmatched pedigree in the field of hard water treatment, scale prevention and water softening solutions without the use of chemicals and magnets, Fluid Dynamics is the world's oldest and largest manufacturer of catalytic hard water treatment and scale prevention systems with hundreds of thousands of units installed around the world. We manufacture scale prevention products to suit our customers' needs large and small:

Fluid Dynamics International Ltd. prides itself on being able to supply solutions to most water treatment problems. Markets served include Europe, Asia, South America, Africa, the USA and Canada - Fluid Dynamics International Ltd. has agents in more than 40 countries.

It has been manufacturing its products for over 43 years and has over 3,00,000 offshore drilling platforms, whole towns and villages and many more installations worldwide. There are many well known abroad companies i.e. Ford, General Motors, Toshiba, Coca-Cola, Guinness, Hilton Hotels, Kellogg's, US Navy, Honda, Nestle, Pfizer, Unilever, YMCA, Cambridge University, Kimberly Clark, who have used and are using our products with a wide range of case histories with savings on electricity to down-time, equipment life, and much more.

SKYMECH Engineers Pvt. Ltd.

Sole & Exclusive Business Partner of Fluid Dynamics - in India.

We are a Jaipur (Rajasthan) based company with an exposé of over 20 years in the business field of water treatment handed over by our group company "Unitech Energy".

After the successful service of Fluid Dynamics International Ltd. in more than 40 countries, we, since 2014, are spreading the refreshing breeze of worldwide patented "Catalytic Technology" in the Indian market for 100% guaranteed solution of hard water problems in collaboration with Fluid Dynamics International Ltd.

There are many well known companies in India who have used and are using our products with savings on electricity to down-time, equipment life, and much more i.e. Atlas Cycle, ONGC- Dehradun & Mumbai, RSWM Ltd (Mayur Group), Niro's Restaurant- Jaipur, TI Tube, Maxim, COATS, Hotel Minarwa- Kolkata, Hotel Rajasthali Resorts & Spa- Jaipur, Hotel Trees & Tigers- Sariska, Indian Convent School- Jaipur, AKFD Studio- Jaipur, Kamla Enclave- Bhilwara, Brahmakumari- Abu Road, SMB Builder- Udaipur, Ayogan Collage of Architecture- Jaipur, Vinayak Dimond Tools- Jaipur, Vidhyasthali School- Dausa, Panchkoola Bhawan- Salasar & Vrandavan, SDC Builder- Jaipur, Shivgyan Builder- Jaipur, Akshat Builder- Jaipur, Felicity Builders- Jaipur, South EX Builder- Jaipur, Tirubala Group- Kanpur, JK Laxmipat University- Jaipur, St. Xevier School- Jaipur, Jayshree Periwai International School- Jaipur, Anuraga Tree House Resorts- Ranthanbore, Endowolrd Hospital, Aurangabad & many more...

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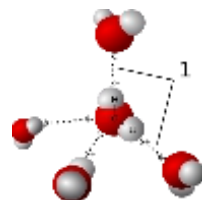
Our Mission
Save Nature...
Save Tomorrow...

We stick to this mission and comply with all the regulations of UNO, WHO, National, State and local laws.

About Water...



Water (Chemical Formula is H_2O) is a transparent fluid which forms the world's streams, lakes, oceans, and rain, and is the major constituent of fluid of organisms. As a chemical compound, a water molecule contains one oxygen and two hydrogen atoms that are connected by covalent bonds, water is a liquid at standard ambient temperature and pressure.

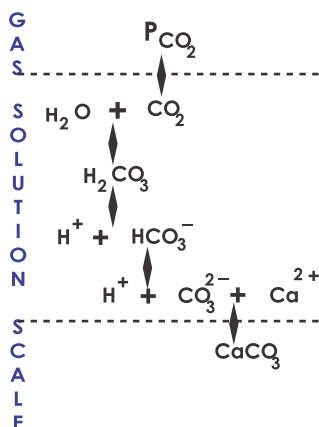


Water is sometimes referred to as the “universal solvent”. This term is used as water has unique characteristics that allow it to break the bonds of larger more complex compounds. For example, place a small teaspoon of sugar or salt in a glass of water, stir vigorously and it will dissolve easily. Although the water in your home is clear, it is not pure. Being a wonderful solvent, water is very receptive and dissolves small amounts of the soluble minerals it comes into contact with in nature. Water contains elements essential for healthy living, including calcium and magnesium.

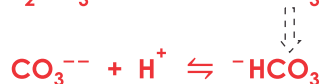
What is Hard Water...?

Hard water is water that has high mineral content. Hard water is formed when water percolates through deposits of calcium and magnesium-containing minerals such as limestone, chalk and dolomite. Hard water generally poses serious problems in industrial settings, where water hardness is monitored to avoid costly breakdowns in boilers, cooling towers, and other equipment that handles water. In domestic settings, hard water is often indicated by a lack of suds formation when soap is agitated in water, and by the formation of lime scale in kettles and water heaters.

Water's hardness is determined by the concentration of multivalent cations in the water. Multivalent cations are positively charged metal complexes with a charge greater than 1+. Usually, the cations have the charge of 2+. Common cations found in hard water include Ca^{2+} and Mg^{2+} . These ions enter a water supply by leaching from minerals within an aquifer. Common calcium-containing mineral is calcite.



The following equilibrium reaction describes the dissolving and formation of calcium carbonate:



The reaction can go in either direction. The calcium carbonate may be re-deposited as calcite as the carbon dioxide is lost to atmosphere, forming scale.



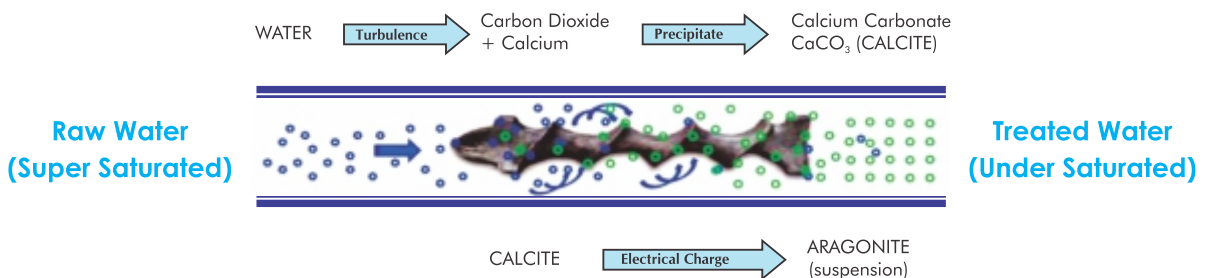
Catalytic Technology

Patented Worldwide Since 1973

When water enters in the device with recommended flow it creates turbulence and due to which Ca^{++} and CO_2 (Carbon Dioxide) are forced to generate CaCO_3 (Calcium Carbonate). Due to this process, now in the less presence of free Ca^{++} ions the nature of water becomes soft. Remember in water CaCO_3 is also already available before turbulence. It is in calcite form which by nature is adhesive and the main reason of scaling. When this CaCO_3 after turbulence passes through the Catalytic device of Fluid Dynamics it strikes (hits forcibly) to the Special Alloy present in the device and gets an small electric charge which converts it's calcite crystals in to aragonite crystals. These are suspended and non-adhesive particles of CaCO_3 and are called aragonite particles. This aragonite form of CaCO_3 does not form scaling and ultimately the water becomes soft and scale free. When CaCO_3 calcite form crystals convert in to aragonite form crystals then the water comes in the state of under saturation form the super saturation. When water is treated through Fluid Dynamics Catalytic Technology device and it tries to come in saturation form from under saturation form it involves the old existing scaling in the pipe lines/supply system and mixed with in. Due to this kind of nature this technology is claimed to prevent Hard Water Scaling as well as cure of old existing scaling in the system/pipe line.

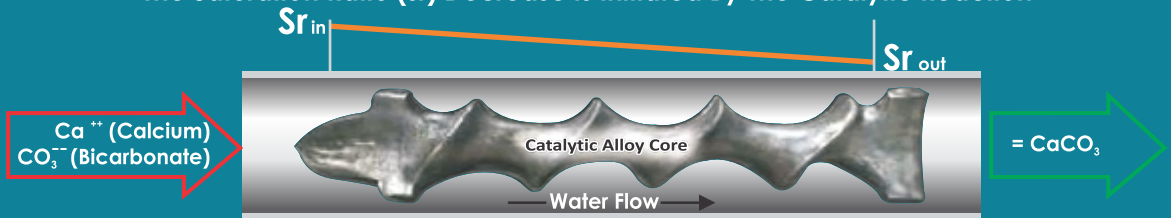
Catalytic Technology के द्वारा Water Treatment में पानी एक निश्चित Flow से Device में प्रवेश करता है तो पानी में Turbulence पैदा होता है और Ca^{++} व CO_2 (कार्बन डाई ऑक्साइड) बन्धित होकर CaCO_3 (कैल्सियम कार्बोनेट) का निर्माण करते हैं जिससे पानी में मुक्त Ca^{++} आयन का अभाव हो जाने की वजह से पानी का व्यवहार Soft हो जाता है, पानी में कुछ CaCO_3 (कैल्सियम कार्बोनेट) पहले से ही विद्यमान रहता है। यह सम्पूर्ण CaCO_3 (कैल्सियम कार्बोनेट) अपनी Calcite अवस्था में पाया जाता है जिसकी Adhesive property होने की वजह से यह Scaling करता है।

Turbulence के बाद जब यह CaCO_3 (कैल्सियम कार्बोनेट) Fluid Dynamics की Catalytic Device में उपस्थित Special Alloy से टकराता है तो Alloy से इन Calcite अवस्था वाले CaCO_3 (कैल्सियम कार्बोनेट) Crystals को एक Small Electric Charge मिलता है जिससे ये CaCO_3 (कैल्सियम कार्बोनेट) के Calcite Crystal अपने Aragonite Crystals में परिवर्तित हो जाते हैं जो कि CaCO_3 (कैल्सियम कार्बोनेट) के Suspended एवं Non Adhesive Particles होते हैं जिनसे किसी भी प्रकार की Scaling Develop नहीं होती है और साथ ही पानी का व्यवहार Soft तथा Scale free हो जाता है फलस्वरूप पानी अपनी Super saturation की अवस्था से Under Saturation में आ जाता है। जब यह पानी Under Saturation की अवस्था से Saturation में आने की कोशिश करता है तो यह Water Supply System, Pipelines तथा अन्य उपकरणों में पहले से जमी हुई Scaling को भी अपने आप में घोल लेता है। जिससे Fluid Dynamics द्वारा निर्मित Catalytic Technology पर आधारित यह Device; Hard water Scale Prevention के साथ-साथ Scale Removal का कार्य भी करती है।



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The Saturation Ratio (sr) Decrease Is Initiated By The Catalytic Reaction



Conclusion:

- 1. Solution of Hard Water :** Water behaves as soft water because the main factor responsible for hard water Ca^{++} is mostly converted into $CaCO_3$ in the process of catalytic water treatment.
- 2. Solution of scaling formation :** The treated water is 100% scale-free because all the $CaCO_3$ (Calcite form - Hard Calcium Crystal) are converted completely into its Aragonite form (suspended form - Soft Calcium Crystal).
- 3. Solution of Existing Scaling :** The treated water removes all the existing scaling because of the under-saturated condition.
4. Treated water can be stored for several months.

CALCIUM CARBONATE

CALCITE:

Under certain circumstances (temperature rise or an increase in pH levels), water is forced to discharge Calcium Carbonate. The Calcium Carbonate discharged in this way is Calcite, a hard scale. Calcite will accumulate on the nearest receptive surface, typically metallic.

In Pictures shown to the untreated form of calcium carbonate. This is the hard scale deposited by untreated water.



Calcium Carbonate Untreated 3000 x magnification



Untreated Calcium Carbonate



After depositing and bonding with oxidize iron.

ARAGONITE:

Aragonite is a form of Calcium Carbonate crystal that, unlike Calcite, prefers to stick to itself and grow attracting more Calcium. It remains suspended in water rather than depositing onto metal surfaces.

In Picture is shown the treated form of calcium carbonate. Unlike calcite, aragonite stays in suspension and is carried through the system to the drain. As a result the system does not scale.



Calcium Carbonate Treated 3000 x magnification



Treated Calcium Carbonate



Pure white showing its inability to bond with other compounds



Catalytic v/s Other Technologies

Parameter	Catalytic Technology (Fluid Dynamics)	Magnetic / Electro-Magnetic	Ion Exchange (Salt Softener)
ECO Friendly	✓	✓	X
No Use of Chemical/Salt	✓	✓	X
No Electricity Consumption	✓	X	✓
No Extra Space Required	✓	X	X
No Charging Required	✓	X	X
Zero Wastage of Water	✓	✓	X
No Maintenance Required	✓	X	X
Working in Hot Water up to 120° C	✓	X	X
Reduce Corrosion	✓	✓	X
Reduce Bacteria/Algae	✓	X	X
Elimination Existing Scale	✓	✓	X
Easy to Install	✓	X	X
Guarantee (1 Year)	✓	X	X
Money Back Guarantee	✓	X	X
Treated Water can be stored	✓ Couple of Months	X	✓
Hardness Capacity	No Limit	Limit (950 ppm)	Limit (1750 ppm)
Warranty	10 Years	1 Year	1 Year
Durability (Life Span)	15 - 25 Years	5 - 10 Years	5 - 10 Years
Product approved by Govt. Authorities	✓	X	X

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Limetron™

Specially designed for domestic applications



The Lime-tron is an in-line treatment unit that can be mounted horizontally or vertically, whichever is the most convenient, on the inlet to your home following the stop valve. Many of our customers have installed the Limetron themselves. Limetron consists of a non-sacrificial lead free catalytic core made from a special alloy housed within a non-reactive stainless steel tube.

SCALE BUILD UP IN THE HOME

- Affects system pressure and reduces flow rates
- Raises energy costs as scale insulates and reduces the efficiency of water heating appliances such as boilers, hot water tank heaters, tank less water heaters, coffee machines, kettles etc.
- Leaves unsightly deposits around baths, showers, sinks and toilets particularly around shower heads and faucets. This often requires tire some cleaning with de-scaling chemicals.



Scaled tap



Heating element



Water heater opened up revealing heavy scale accumulation

BENEFITS OF USING THE FLUID DYNAMICS LIMETRON SOLUTION

- The Limetron prevents scale build up and hard water stains when installed on new systems and gradually removes scale from previously untreated older systems (this process is gradual and it may take up to several months to de-scale a previously untreated system)
- No detrimental effect on drinking water unlike salt utilizing conventional water softeners.

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Approved by:





ScaletronTM

Specially designed for commercial or compressed & hot water applications



Scaletron is a unique catalytic scale prevention system suitable for treating potable residential and commercial water systems. Scaletron incorporates the unique catalytic alloy conditioning systems into a single stainless steel housing providing the most complete reaction available for calcium carbonate treatment.

PROTECTION FOR YOUR SYSTEMS AND EQUIPMENT

- **Water-heater Calorifier** – used to reduce energy consumption as compared to scaled up water heater, prevent need for cleaning, extend life of elements/serviceable parts.
- **Ice-machine** – used to prevent cleaning of cube trays, for more consistent shapes and cleaner looking ice.
- **Solar heating systems** – it maintains efficient heat transfer, prevents clogging and necessity of cleaning panels.
- **A/C chillers** – remove/prevent scale inside chiller, eliminate certain chemicals, prevent energy waste.
- **Hot/cold water network** – prevent scale inside pipes, prevent pressure losses, prevent need for pipe flushing.
- **U.V. sterilization equipments** – prevent need for cleaning, maintains efficient sterilization.

Scaling on Heating Element



Choked Pipelines



Scaling on Honeycomb pad



Scaling in Civil Construction

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Pool-TronTM

Specially designed for Swimming Pools



- It has been launched to combat the problems associated with hard water in swimming pools.
- Scaling is a problem associated with swimming pools that use hard water.
- Not only does it look unsightly but is also costs a large amount of money to remove scale build up.
- It uses a pre-charged semi-precious alloy and comes supplied in Plastic PVC .
- It is catalytic non-chemical water treatment for scale-prevention.
- Totally environment friendly equipment, reduces your chemical use and reduces water wastage.
- Supplied in plastic housing and can be installed in new and existing pump rooms.
- Install in the pump room after the sand filters.



Scaling In Swimming Pool

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Colloid-A-Tron™

Specially designed for heavy industry and cooling towers.



The Colloid-A-Tron is a unique lime-scale prevention system which consists of a non-sacrificial lead free catalytic core made from a special alloy housed within a non-reactive stainless steel (316) tube. Colloid-A-Tron provides the ideal solution to the problems associated with hard water scaling

Industrial / Commercial Applications

- Humidifiers
- Compressors
- Condensers
- Air Conditioning
- Air Washers, Scrubbers
- Cooling Rods Felt Washing
- Boilers, Low Pressure Calorifiers
- Injection Molding Machines
- Sea Water cooling circuits
- Ice Makers
- Extruders
- Friction Brakes
- Grinders and Mixers
- Presses
- Heat exchanger
- Hot Water Heaters
- Cooling Tower
- Vacuum Pumps

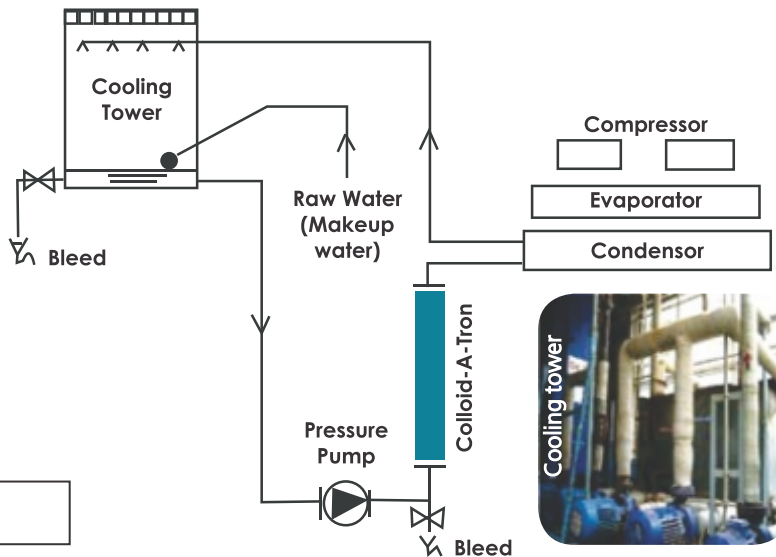


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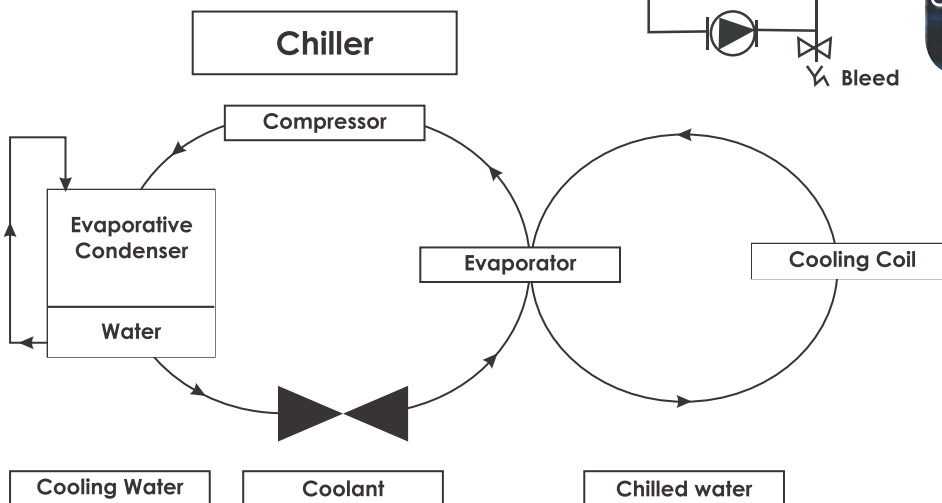
Backed by Science & Endorsed by Industries



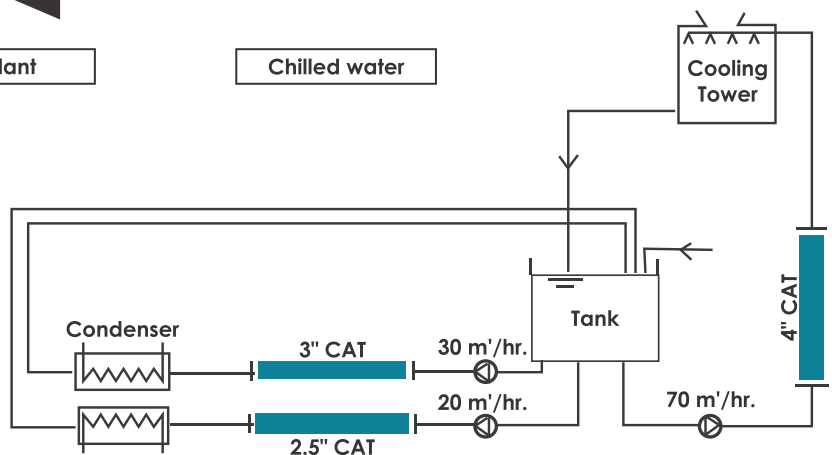
Installation



The System



Protection of a complete cooling system



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MagCat™

Super product, specially designed for all types of typical applications.

"Dual treatment water conditioner, the ultimate in scale control"

MagCat is a combination of magnetic and catalytic treatment systems into a single compact stainless steel housing providing the most complete reaction available for calcium carbonate treatment. It is the cost effective answer to a problem which costs industry millions of rupees each year.

MagCat Range

MagCat Industrial

Designed for industrial and waste water including water that has contaminations such as oil. You can see from the picture below the layout of MagCat industrial



Before



After



MagCat+

In some waters we found that Scaleton was not working so well because the water was very soft, but still having scaling problems. So we designed a product with more power where the water was treated. The idea was to have a magnetic chamber in the same place as the Scaleton alloy, we made some proto types and trailed in areas where we had the problems and it has been working very well. May be 5% of all waters are not suitable for Scaleton because the pH is too low or hardness is too low so in the past we say no, but now we have a solution



Scaling on RO Membrane



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Agratron™

Specially designed for Agriculture applications.



Agra-tron is unique combination magnetic and catalytic treatment systems Specially designed for agricultural applications Irrigation Systems (System and Nozzle Protection):

A. Nurseries

B. Agriculture

C. Turf

B. Gardens

Issues

- Calcium Carbonate scale can collect inside of pumps, lines, solenoids, emitters and sprinkler heads causing blockage and premature failure.
- Calcium Carbonate scale collects on leaves and plant roots, slowing down photosynthesis and nutrient intake.
- Hard water requires larger amounts of chemicals, fertilizers to be used.
- Calcium Carbonate fill up between the soil molecule (in the capillary tube) so the capillary water can not be available for plant so the plant can not observe to water and nutrition.
- The soil surface convert into a very hard surface by calcium carbonate.

Benefits of using Agratron

- Reduced water tension requiring less chemicals and fertilizers.
- Prevention of scale in nozzles.
- Treated water prevents calcium clogging plant roots ensuring plants remain capable of maintaining efficient absorption of water and nutrients.
- Improves pH stability in water.



(Before) Plants with deposits to installation



(After) Deposit free plants following installation

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**We Sell
Success**

General FAQ

Is anything added to the water during treatment?

No, both catalytic and combination treatment use non-sacrificial components so nothing is added to the water during the process.

What happens to the treated calcium carbonate?

Our conditioners cause calcium carbonate to precipitate as an insoluble crystal. Calcium carbonate is still CaCO_3 just in an altered way. Think of water itself, its H_2O but can take the form of water, ice, steam, snow. Many other compounds are the same and our conditioners exploit the ability to create a stable non-adhering formation of calcium carbonate. Once precipitated calcium carbonate remains as microscopic crystals in suspension in the water and will float round eventually exiting a drain or bleed valve. If treated water is remaining in a static environment for a prolonged period of time then this crystal suspension can often settle out and take the form of very fine powder or soft sludge. There is no record of this deposition having enough consistency to cause blockages in valves or outlets.

Selecting a size without knowing the flow rate.

In general applications conditioners should be sized based on the pipe diameter unless the flow rate is known to be low or there is relatively heavy scale build up inside the pipe a conditioner 1 size smaller than the pipe diameter should've used. Fluid dynamics has a wide range of connection options available accomm-odating the various international standards.

Over what distance or length of time does the treated calcium carbonate remain in suspension?

Providing treated water is not mixed with untreated water then treated calcium will remain for a number of months.

Why are our conditioners considered so green?

Our conditioners can be considered amongst the greenest water treatment available. It is a completely power free system and has no sacrificial components requiring regular replacement. There is no salt required, no wasted water and our conditioners require no replacement parts

Mixing treated and untreated water

Mixing treated and untreated water will have an impact on treatment quality. If two separate sources are supplying a single piece of equipment and do not mix before the area where scaling would occur both should be treated.

Why is selecting the right diameter so important?

Selecting the wrong size diameter including using a larger diameter than needed can compromise water delivery and affect treatment quality. Size should be selected based on flow rate and if required suitable reducers should be used to connect to intended pipework

Why isn't there a bigger effect on pressure losses?

Both catalytic and magcat systems have internal components designed to minimise resistance as water passes through it.

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Residential FAQ



What if I want to keep my water softener?

Installing a conditioner in conjunction with a water softener will provide environmental and financial benefits that will pay for the cost of the conditioner several times over throughout its life.

The CONDITIONER will reduce the amount of salt required during the regeneration in the softener and can also increase the time between regeneration reduce the amount of wasted water.

Where is the best installation point if treating a whole house

On the main cold water supply line. If s tank is present the conditioner should be installed before the tank if based on a high low level switch or if a operating on a float valve then the conditioner should be installed after the tank.

How long will it take before a difference is notice following installation?

Depends entirely on frequency of use and if there is significant lime scale deposits already present. If significant scale is already present it can take several months before any difference is noticed. However in sie cases results can be seen in a matter of weeks.

Will one conditioner treat a whole house?

In most cases yes. However some sore external applications like solar panel systems an additional unit will be required.

Scaling in dishwashers

The nature of operation of some dishwashers can have an adverse effect on treatment which means that some scaling may take place, but scale deposits will be greatly reduced and will be much easier to remove.

Scaling in kettles

Due to the rapid heat change and evaporation created in kettles non ion exchange treatment methods such as conditioners will struggle to completely prevent mineral deposits over a period of time. However benefits should be seen with an extension required between cleans and overall increase in equipment life.

Selecting the correct products

Use the product selection guide in this manual, if still in doubt then contact fluid dynamics or your local agent and provide them details of your application along with a water analysis.

Is treated water safe to consume?

Catalytic and magcat systems have been used in potable systems for over 40 years and has received numerous safety certifications some of which are listed in this handbook

Using conditioning to reduce the cost of Reverse Osmosis

Significant savings can be made by installing a conditioner prior to an RO system. Benefits include increase in pure water production and decrease in wasted water. Chemical reductions and reductions in energy use from the pumps have also been realised following installation.



Commercial FAQ

Treating hotels/shopping malls

Comprehensive conditioning systems can be designed specifically for unique complexes send s CAD drawing along with water schematics to your local agent or fluid dynamics and they will spec in the most cost effective system design for your project. Our conditioners have been installed in many prestigious locations around the world.

Why is no BMS required?

BMS (building management systems are only required where conditioners require power from an external source and factors such as power cuts, tripped fuses or poor electrical connections can all cause an immediate halt in treatment. Both catalytic and magnetic systems do not rely on external power source an work on a continuous basis without the requirement for ongoing maintenance nor replacement parts.

Will I need a maintenance schedule?

Maintenance schedules are not required unless treating water with very high concentration of minerals or where iron may be present in the water and advice can be sought from your local agent for frequency of maintenance based on the water analysis.

Installation guide on recirculating hot water systems

If installing conditioners for treating a recirculating hot water system the general practice is to ensure the supply to the water heater is treated and it is goo practice to ensure that the return part of the recirculating system also has a conditioner on it. This can be avoided in some modern systems where the water is kept at a relatively consistent

temperature and where there is fast rate of water consumption. Where water is continually circulated and heated and cooled eventually if not used treatment efficiency we start to degrade.

What effect does a temporary drop in flow rates have on treatment?

Providing the flow rate remains within the optimum range for the majority of the operation, if flowing outside the optimum range this will have no significant impact on the threat of increased scaling.

Is treatment capabilities governed by TDS levels?

No, there is no limit in terms of the level of TDS that can be treated. Generally the more TDS the more effective treatment will be. Parameters such as pH and the balance of ions dictate the compatibility of treatment.

What about maximum flow rate

Size should always be chosen based on optimum operating flow rate, however if the flow does temporarily exceed the maximum stated acceptable flow this will not have any impact on conditioning but may cause noticeable reduction in pressure.

How long will treatment last/ over what distance?

Whilst many conditioners have a treatment period of only 48 hours our conditioning has been proven to maintain its treatment for over 3 months. Whole towns and villages have been treated using our conditioners with benefits being felt across over 5000 homes using a single system.

Industrial FAQ



What detergents and chemicals can or cant be used with treatment?

Some chemicals and detergents can be used with conditioning. Generally bleaching agents and filming agents are not suitable for catalytic treatment. Some domestic washing additives such as calgon are not suitable for treatment. For specific details on chemicals/additives being used contact SKYMECH Engineers Pvt. Ltd.

I have a bank of compressors,should I use one large conditioner on the main feed or several small conditioners on each compressor inlet?

Depends on flow rate. If all compressors operate at a consistent rate then yes. If compressors operate independently then each compressor should be protected individually.

I want to test a conditioner for industrial use what is the best application to see the fastest results?

Single pass heat exchanger, steam mixing valves or nozzle scaling.

Observing cycles of concentration

Fluid Dynamics has developed expert 5 unique to the water treatment industry which can be used to calculate the optimum level of concentration. Once installed further water analysis should be sent on a quarterly basis to observe water quality levels.

Effect on corrosion when descaling

Existing scale may be covering old corrosion and this should be a concern for very old heavily scaled pipe work.

Can conditioning assist when blended with softened water?

Yes, a conditioner installed ahead of the softener will reduce salt use and protect the percentage of water that is not being softened.

Installing in Chillers/ Evaporative condensers

Chillers and evaporative condensers should be treated in the same manner as cooling towers and an application form available from your agent should be submitted for a proposal.

Maintenance and cleaning

Systems are designed to be maintenance free, in some circumstances such as over concentration in cooling towers can lead to mineral deposition inside the conditioner. If deposition develops inside the conditioner then the conditioner should be cleaned according to the cleaning schedule.

Treating seawater

Colloid-A-Tron and MagCat systems have both successfully treated seawater applications for both cooling and as pretreatment for desalination.

Descaling large systems with heavy scale contamination

Ideally heavy scale accumulation should be removed using chemicals or mechanically. If this is not possible then outlets and valves should be monitored for blockages as large chunks of scale may drop off and block lines.



Product Selection Guide

Particular	Limetron	Scaletron	Colloid-A-tron	MagCat Industrial	MagCat+	AgraTron	Pool-Tron
pH Below 8.5	✓	✓	✓	✓	✓	✓	✓
pH Above 8.5	X	X	X	✓	X	✓	X
High Iron Content	X	X	X	✓	X	✓	X
High Silica Content	X	X	X	✓	✓	✓	X
Sea Water Application	X	X	✓	✓	X	✓	X
Pressure up to 8 Bar	✓	✓	✓	✓	✓	✓	✓
Pressure up to 16 Bar	X	X	✓	✓	✓	X	X
Pressure Above to 16 Bar	X	X	✓	✓	X	X	X
Point of use Equipment	✓	✓	✓	✓	✓	✓	✓
Recirculating System	X	X	✓	✓	✓	✓	✓
Sewerage/waste water	X	X	X	✓	X	X	X
Work in Oily water	X	X	X	✓	X	X	X
Development/Tower Blocks/Whole Village Treatment	X	X	X	✓	✓	X	X
Evaporative recirculating system e.g cooling tower, condenser	X	X	✓	✓	X	X	X

www.scalepreventionindia.com | info@skymechindia.com

Approvals

Nothing Success Like Succeed



Water Quality Association (WQA) “Gold Seal” Certificate - USA.

The Water Quality Association’s (WQA) Gold Seal is the international “Mark of Product Quality” and has become one of the most recognized drinking water treatment certification programs in the world. Not all water treatment systems have the “Gold Seal”. This certification is awarded by the WQA to the most reliable and trusted producers of quality drinking water systems



Water Regulations Advisory
Scheme - U.K.

Any water related fitting, which when installed, will carry or receive water from the public main water supply in the UK, must comply with the Water Supply (Water Fittings) Regulations or Scottish Byelaws. Products undergo mechanical and water quality testing. This type of approval demonstrates full compliance with requirements of the regulations and byelaws.

Kiwa - U.K.

KIWA is a pan-European certification institute assisting clients worldwide with internationally recognized certification of systems, products, processes and staff. As an independent expert it also carries out inspections and investigations.

kiwa
approved
product



General Services Administration - USA

http://www.gsa.gov/portal/mediaId/211899/fileName/GPG_Findings_19_-_NCWT.action

The GSA is the authority responsible for the maintenance of all US government buildings. "The Technology and its effectiveness both have been demonstrated in this study, and should be considered for adoption by GSA facilities that are experiencing scaling issue in water heating systems. Mostly larger GSA facilities use cooling towers and hydraulic heating systems to meet HVAC needs. There also would benefit from this technology." - GSA



For the whole story
visit below the link:

U.S. Green Building Council - USA

Applies to buildings that are being newly constructed or going through a major renovation. To have strong bonding in concrete (in between sand and cement) and to protect building from falling of cement and plaster.



Carbon Limiting Technologies –UK

For clean nature, energy saving and low carbon technology.

CREDENTIALS AT A GLANCE :

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OFFICE	E-MAIL & WEB	CONTACTS
K-3, Opp. Civil Lines Circle, 22 Godam Road, Hawa Sadak, Jaipur-302006	info@skymechindia.com www.scalepreventionindia.com www.skymechindia.com	+91-141-2213774 +91-96949 06000 +91-96940 66771

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