



Fluid Dynamics (UK)
Hard water solutions since 1973

**Leading manufacturers
of water conditioners**

**Non-Chemical Water Treatment
(NCWT) System**



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**

Treated Water Can Be Stored For Couple of Months

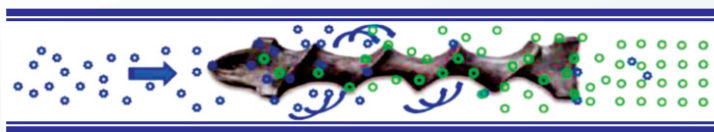
ABOUT THE COMPANY...

We, 'Skymech Engineers Pvt. Ltd.' are the Sole & Exclusive Business Partner of Fluid Dynamics in India. Fluid Dynamics International Ltd. was founded in 1973 and its head quarter is in London, England (UK). Company is the world's oldest and largest manufacturer of Catalytic Technology based hard water treatment and scale prevention system. The company products and technology both are worldwide. Famous for quality and reliability. With having 47 years experience in water treatment, company with its more than 60 countries has installed approx 6,00,000 systems all over the world.

CATALYTIC TECHNOLOGY

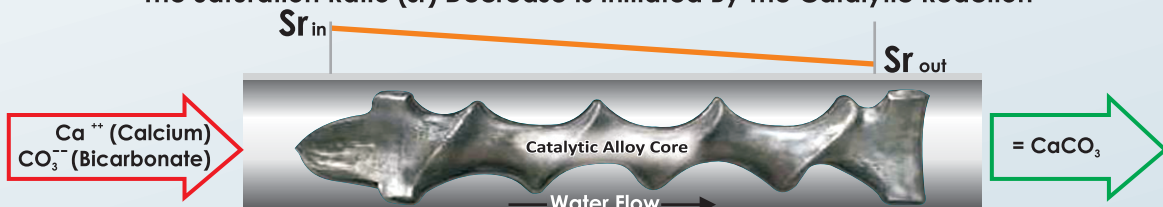
As the water flows through the core of Fluid Dynamic Product, it will create a turbulence, and this will force the carbon dioxide to come out of solution (CO_2) and bind with calcium (Ca^{++}) to form calcium carbonate right format (CaCO_3) in the form of Calcite Crystals. This form of crystals will cause scaling. However, as the calcite crystal touches the core, a small electric current will be produced and this will convert the calcite to aragonite crystals and keep it suspended in the water. This form of calcium carbonate (aragonite) is unable to form scale.

WATER $\xrightarrow{\text{Turbulence}}$ Carbon Dioxide + Calcium $\xrightarrow{\text{Precipitate}}$ Calcium Carbonate CaCO_3 (CALCITE)



CALCITE Adhesive $\xrightarrow{\text{Electrical Charge}}$ ARAGONITE (suspension) Un-Adhesive

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



Certificate & Approvals



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



KIWA-UK



Water regulations
Advisory scheme
- U.K.



General Services
Administration
- USA



U.S. Green
Building Council- USA



Carbon Limiting
Technologies -UK

HARD WATER SCALING - PROBLEMS & SOLUTIONS

Fluid Dynamics International Ltd., UK के Water Conditioner से Hard Water और Scaling से होने वाली समस्याओं से छुटकारा पायें

PROBLEMS CAUSED BY HARD WATER

- नल, शॉवर का चॉक हो जाना
- पाईपों व फिटिंग का चॉक हो जाना
- प्लास्टर व सीमेंट काँक्रीट का झड़ना
- R.O. बार बार सर्विस होना
- बालों का झड़ना एवं त्वचा का रूखापन
- साबुन का काम नहीं करना
- खेती नहीं होना/धरती बंजर हो जाना
- PHE, Heat Exchanger, Boiler, Chiller, Cooling Tower में Scale जमा हो जाना

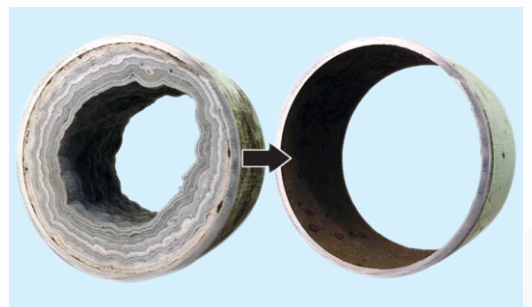
FEATURE OF TECHNOLOGY

- ✓ बिना किसी Softener
- ✓ बिना किसी Chemical/salt
- ✓ बिना किसी Magnetic System
- ✓ बिना किसी Electro-Magnetic System
- ✓ बिना किसी Maintenance
- ✓ और पानी की एक बूँद की भी बर्बादी नहीं
Zero Liquid Discharge (ZLD)

विश्व की एक मात्र टेक्नोलोजी जिस के ट्रीटेड वाटर को स्टोर करें कई महिनों तक ।

BEST REPLACEMENT OF SALT SOFTENER

- Millions Satisfied Customers in Europe, Asia, America, Africa, USA, Canada, China and India
- Overseas Trade Centers in more than 40 Countries.
- 47 years experience in export.



HARD WATER SCALING - PROBLEMS & SOLUTIONS

Minitron

Small Industrial/Pharma application



Limetron

Residential application



Scaletron

Point of use and commercial application



Pool-Tron

Swimming pools/fountain application



Colloid-A-Tron

Industrial scale control



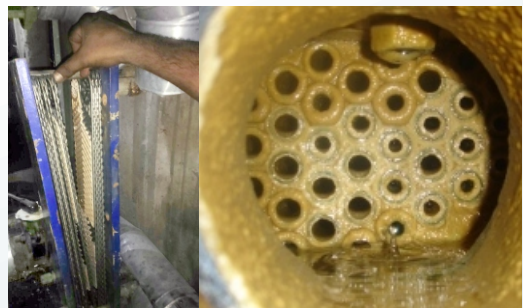
MagCat

Commercial whole treatment systems

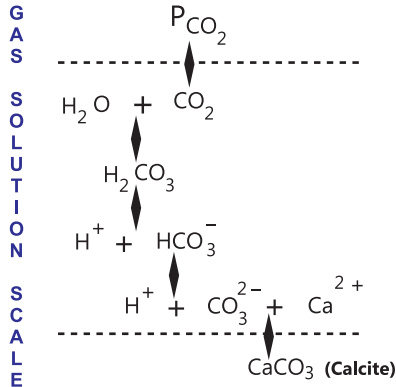


Agratron

Agriculture applications

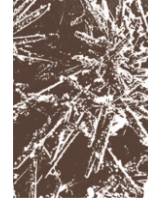


HARD WATER SCALING (CALCIUM CARBONATE)



The following equilibrium reaction describes the dissolving and formation of calcium carbonate. The reaction can go in either direction.

CALCITE:



Under certain circumstances, 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.

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.

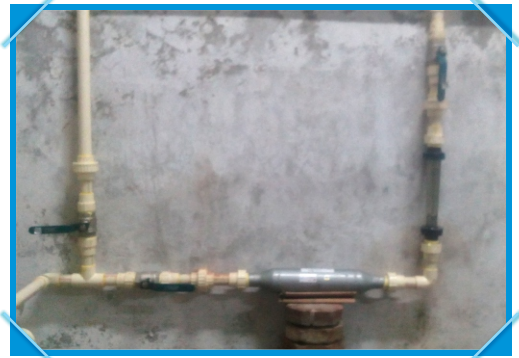


CATALYTIC V/S OTHER TECHNOLOGIES

Parameter	Catalytic Technology (Fluid Dynamics)	Magnetic / Electro-Magnetic	Ion Exchange (Softener)
No Use of Chemical/Salt	✓	✓	X
No Electricity Consumption	✓	X	✓
Zero Wastage of Water	✓	✓	X
Treated Water can be stored	✓	X	✓
No Maintenance Required	✓	X	X
Working in Hot Water (120°C)	✓	X	X
Elimination Existing Scale	✓	✓	X
Money Back Guarantee	✓ (1 Yr.)	X	X
Hardness Limits	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

APPLICATION & INSTALLATION

**Jayshree
Periwal
international
School
(Jaipur) ▶**



**BOSCH
Limited
(Jaipur) ◀**

**Eisha
Zeinth
Apartment
(Pune) ▶**



**JK
Lakshmipat
University
(Jaipur) ◀**

**Kamla
Enclave
(Bhilwara) ▶**



APPLICATION & INSTALLATION

**LK Singhania
Education
Centre
(Gotan)** ▶



**Mahatma
Gandhi
Hospital
(Jaipur)** ▶



**Panchkula
Bhawan
(Vrindavan)** ▶



**Royal
Ensign
Apartment
(Jaipur)** ▶



**Vidyasthali
School
(Dausa)** ▶



APPLICATION & INSTALLATION

**NAZAMAT
TAMIRAT**
(Qadian,
Gurdaspur) ▶



**Construction
Site
Mahima Sansar**
◀ (Jaipur)

**Shree
Shyam Baba
Dharamshala**
(Ahmedabad
Group) ▶
Khatu Shyam Ji



**Kedia
Builder Group**
Sirsi Road
◀ - Jaipur

**Construction
Site - Jajoria
Guest House**
(Culcutta Wale) ▶
Salasar Ji



JUDGE OUR PRODUCTS BY OUR CUSTOMERS



...AND THOUSANDS MORE!

All trademarks are acknowledged

Local
Contact

Sole & Exclusive Business Partner in India
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