

EMS

Electro Magnetic Softener



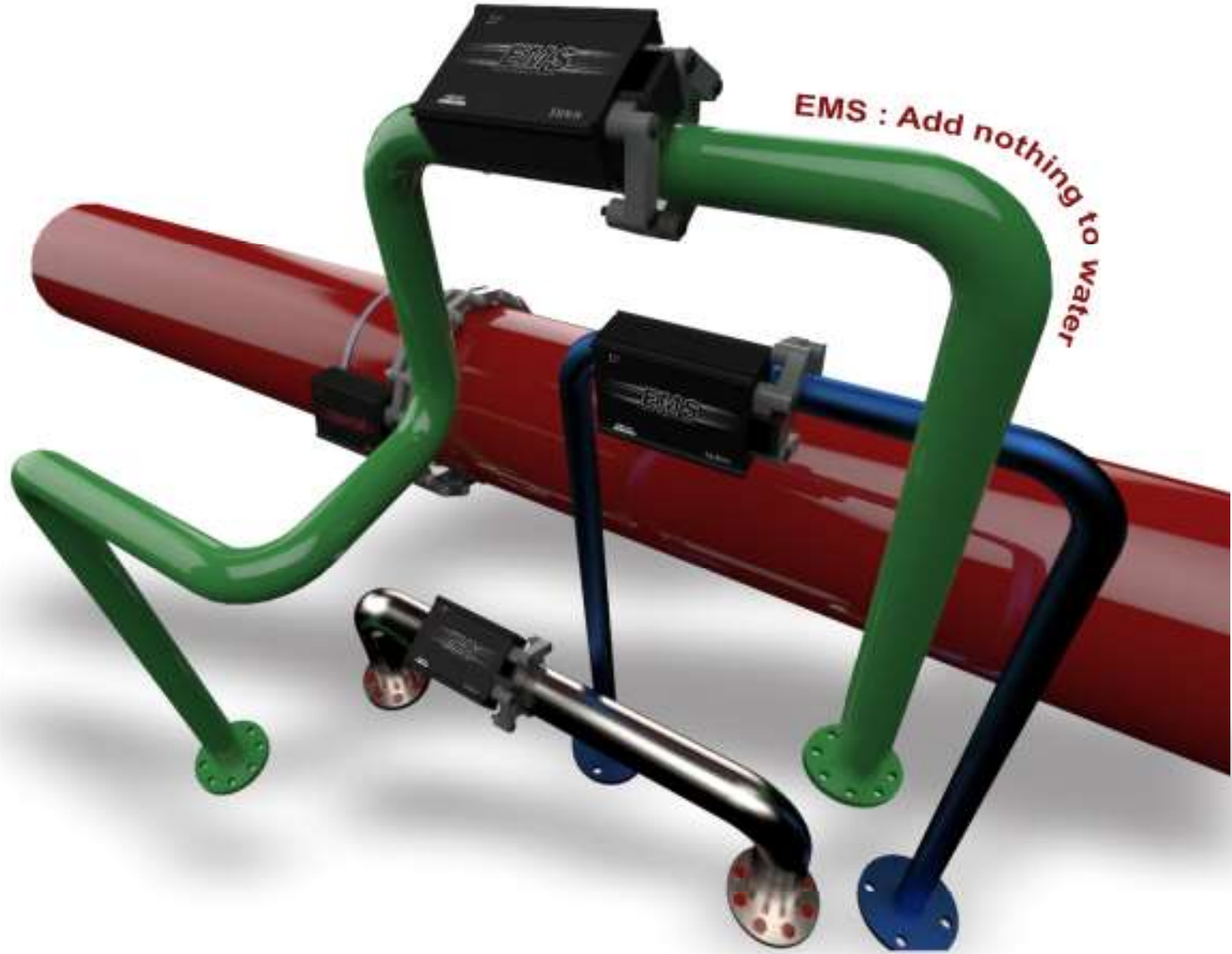
No chemicals
No more limescale

EMS

Electro Magnetic Softener

EMS series uses the basic laws of electromagnetic in such a way that puts it by the far above all popular magnetic and electromagnetic anti-limescale devices which came before it.

Thanks to its state-of-the-art design, EMS is not only more effective but also so much easier to install than its predecessors. Compare to European brands, EMS is a cost-effective domestic product with faster and better after-sale services.



EMS Advantages

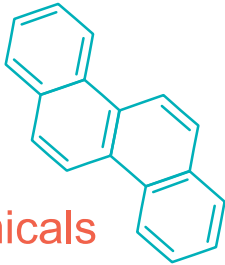
As the last technology in physical water treatment, EMS provides you with these benefits:

- Needs no chemicals
- Needs almost no Maintenance
- Higher equipment efficiency
- Lower energy consumption
- Longer equipment lifetime
- No more Acid cleaning
- Easy to install: No need to cut or intervention
- Low energy consumption
- Eco-friendly

No

More

Chemicals





Save Energy

Eco
Friendly

Save
Service Cost

No
Chemicals

Easy
installation

Lifetime Solution

EMS :
When
balance
comes true

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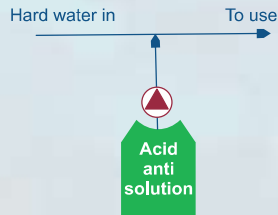
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EMS

in comparison
with other technologies

Adding Chemicals

(Acid, Antiscalant,...)



- ▼ Need periodic service
- ▼ Need Space
- ▼ Very high operational cost
- ▼ Add chemicals to water

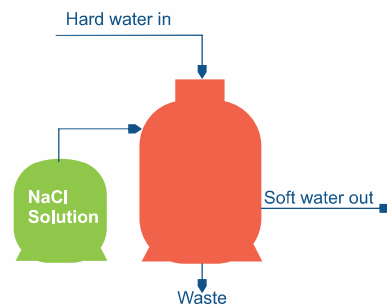
Permanent Magnet Water Conditioner

- ▼ Its efficiency depends on the water velocity
- ▼ Its efficiency decreases gradually
- ▼ Not applicable on ferrous materials
- ▼ Not applicable on pipes with O.D. > 4"
- ▲ Needs no power
- ▲ Add no chemicals to the water



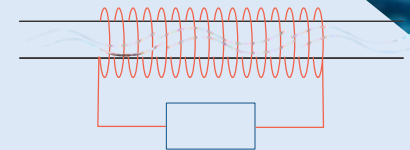
Ion Exchange Softening

- ▼ Need periodic service
- ▼ Waste the water
- ▼ Need Space
- ▼ High operational cost
- ▼ Not applicable for agriculture or drinking water
- ▲ Very Popular



Winding Electromagnetic Water Conditioner

- ▼ Not applicable on ferrous materials
- ▼ The seeds generation takes place only in winding length
- ▲ Can be installed on pipes with big O.D.
- ▲ Add no chemicals to the water



EMS

An eco-friendly approach with so many applications

EMS is low-power solution that uses no chemicals and wastes no water. EMS production and function are based on respect for our precious environment .



EVS USE



HVAC
Industrial
Residential
Agriculture
Commercial

Agriculture

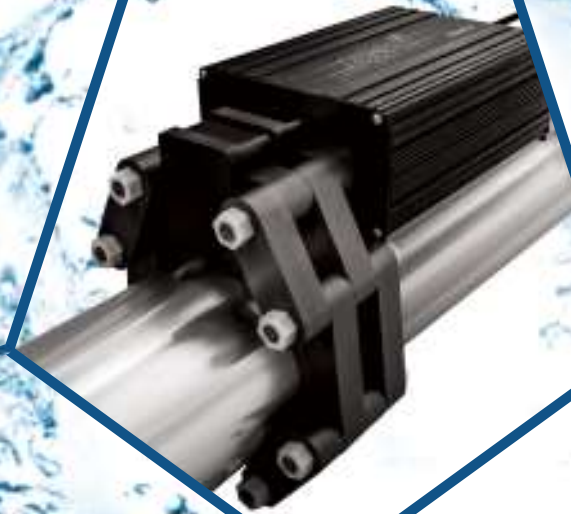
Greenhouse
Drip irrigation system
pressurized irrigation system

Residential

evaporative cooler
wall hang boiler

HVAC

boiler
cooling tower
evaporative cooler
heat exchanger
chiller
hot water generator



Industrial

distiller
heat exchanger
filtration equipment
boilers
manufacturing facility
oil well
processing equipment
soft drink manufacturing

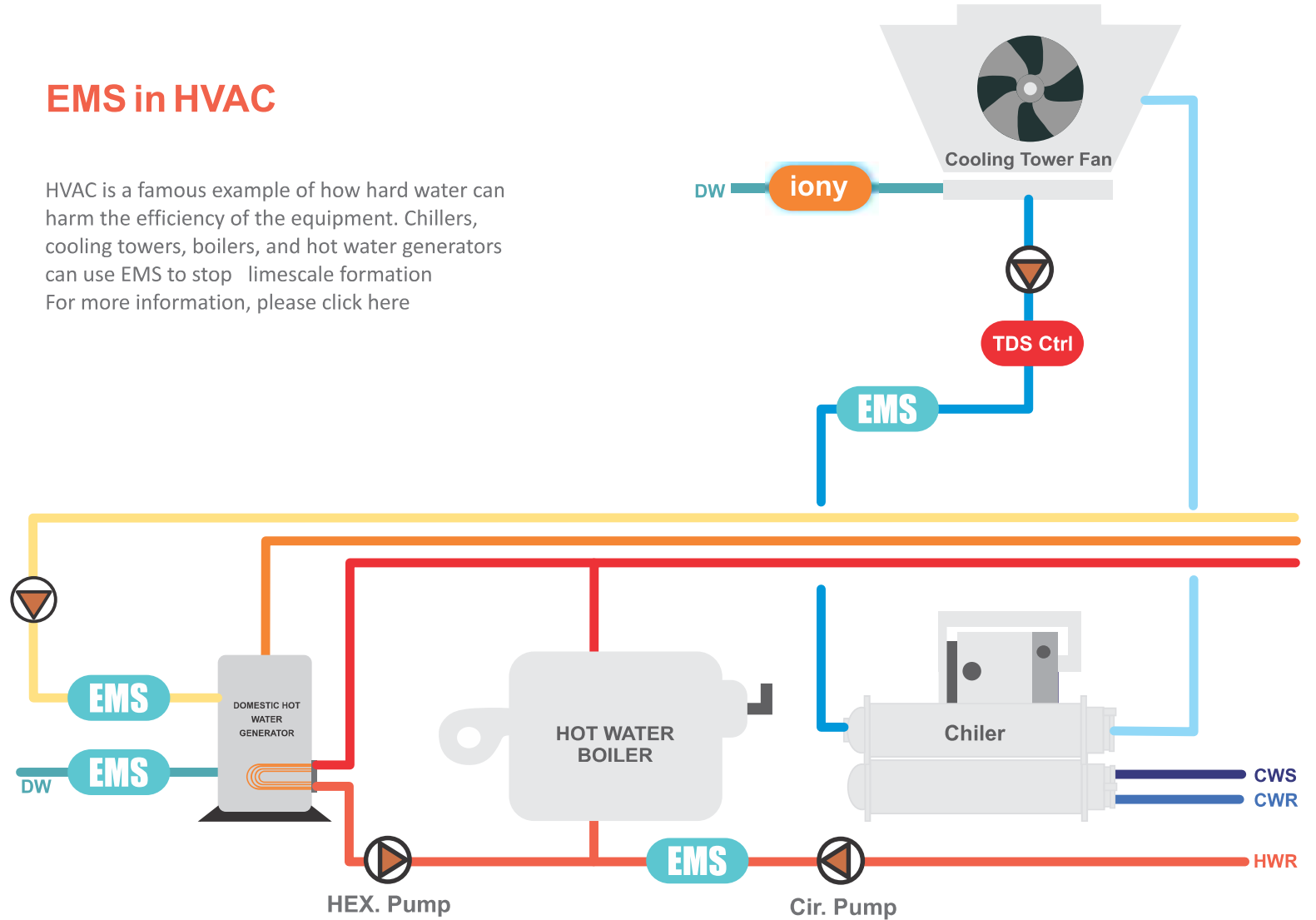
Commercial

car washing equipment
coffee maker
hospital
hotel
laundry
swimming pool



EMS in HVAC

HVAC is a famous example of how hard water can harm the efficiency of the equipment. Chillers, cooling towers, boilers, and hot water generators can use EMS to stop limescale formation. For more information, please click here



EMS in Swimming pools

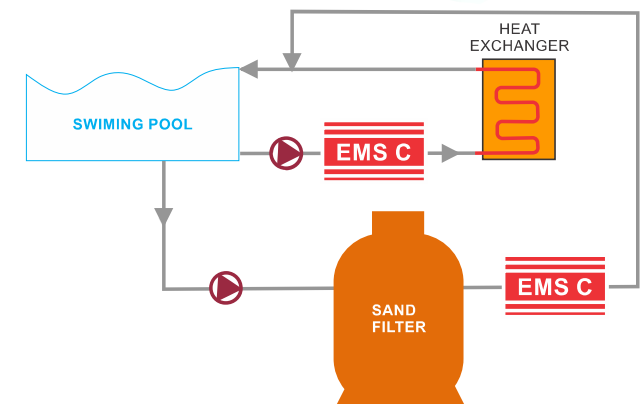
Although most people never see it, behind every beautiful swimming pool or rejuvenating hot tub there is a water treatment facility which is vulnerable to limescale. Ignoring the needs of this facility can turn an attractive, enlivening unit, which perhaps makes money, into a terrible, costly disaster.

Benefits:

improves the performance of the filtration unit by helping suspended particles removal

Eliminates limescale deposit in the heat exchanger

Reduces the need for chemical coagulants.

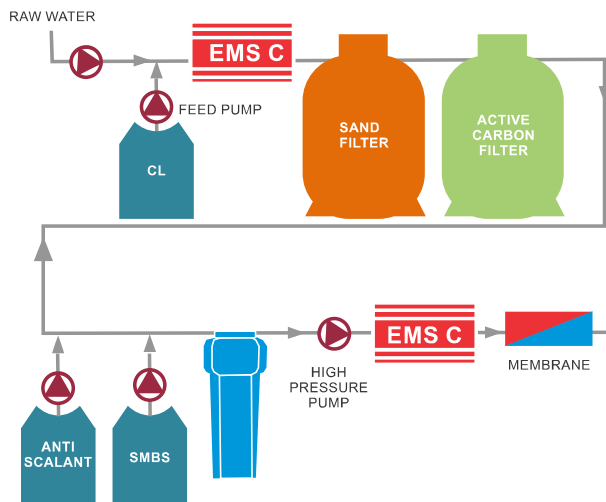


EMS in RO desalination

RO desalination units are widely used in different industries to produce pure water. These units are small-scale factories and need regular service and maintenance like any other facility. Although they usually use acid and antiscalant solutions to prevent scale build-up on the membranes, they can benefit from using two EMS units after the feed pump and the high-pressure pump too.

Benefits:

- Improves the performance of pre-treatment by helping suspended particles removal
- Reduces the scale build-up on membranes
- Lengthens the lifespan of membranes
- Lessens the frequency of acid washing (CIP)
- Cuts down the cost of chemicals



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EMS & Agriculture

More world population means more food consumption which leads to using even more land as farms. As farming grows the groundwater goes down, and global warming makes this condition even worse. All of these have a dire effect on water quality and its concentration, and consequently, on the efficiency of farms. Crops and trees can hardly use water concentrated with minerals. EMS, according to some farmers' experiences, who have used it on some pistachio and citrus farms in the center and south of Iran, where the water condition is far from being good, and reported very satisfactory effects, is an economical, green solution for this problem.

Benefits:

- Practically enhances both plant growing and producing
- Lengthens the lifespan of watering facilities (like nozzles, filtration, etc.) and reduces their service cost

Benefits:

- Practically enhance both plant growing and producing
- Increase watering facility lifespan (like nozzles, filtration, etc.)
- Reduce service cost of watering facilities



EMS-C :Commercial Series

The most popular member of the EMS family can be used in various applications: from cooling towers and hot water boilers to swimming pools or farms. EMS-C is produced to fit around pipe sizes from 1" to more than 40".

EMS-C includes 2 main parts or units: a power supply and a signal generator each encased in an aluminum enclosure.

The first part transforms power line voltage to DC voltage suitable for electronic circuits. The other part not only generates the electric signal but tests the whole system periodically and informs the result through the LED on the power supply unit. By checking that LED the user can get sure about EMS's proper installation and good working.

As the signal generator unit mounts on the water pipe, it uses waterproof connectors and all electronic circuits within it are buried in waterproof materials.

EMS-S :Steam-Boiler Series

EMS-S is a distinctive member of the EMS series which is exclusively designed and produced for fire-tube steam boilers. In steam boilers, a metal loop is frequently inevitable so there is no way but to use a stronger electromagnetic signal generator. EMS-S overcomes this problem and can transmit its electromagnetic waves inside the pipe despite the metal loop.



Industrial Application

Maintenance-free Lifetime Solution

Thanks to the professional design of EMS, it doesn't need periodic maintenance or frequent repairs. It also has no sophisticated manual. After installation by our experts, just check it occasionally to ensure it is ON and keeps blinking.



EV-40

The residential sector has a big share in the country's energy consumption, and at the same time, household facilities and equipment (including wall-hung boilers, water heaters, and even washing machines and dishwashers) are as sensitive to limescale as large facilities. In other words, preventing limescale formation is very important in this sector. Unfortunately, industrial solutions, like chemical softeners, are too expensive and technically complex to meet the needs of the residential sector.

EV-40 is our answer to this need. EV-40 is an effective product with an attractive price, and state of the art design that anyone can install it in less than 30 seconds.



EMSmart: Small and powerful

This is an industrial product designed specially to install on 1" diameter pipes. Compare to other members of the EMS family, EMSmart is the smallest and the most economical one. It is equipped with U-ferrites, like what EV-40 uses, which makes its installation very easy. At the same time, using 2 pairs of those ferrites makes it powerful enough to be applied to industrial applications.

EMSmart usages range from residential applications (Like villas) to small-scale boiler rooms.

Medium-size plate heat exchangers can find it so useful against limescale.



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Physical Water Treatment

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