

# electrochemical Heating Water Conditioning

## The proven heating system protection against rust and sludge





### Proven to prevent corrosion and sludge!

The electrochemical conditioning of the heating water allows best heating performance by ideal heating water quality.

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#### Ideal heating water quality -Low-salt and chemical-free-

Electrochemical water treatment by elector.



Due to their design, the materials and the control units used, modern heating and cooling systems have become more efficient by reduced energy consumption.

In many cases, this increase in efficiency means smaller exchanger surfaces, thinner wall thicknesses for heaters and heat exchangers and the use of different materials.

The long-term preservation of such installations requires the best possible operating conditions, to which the quality of the heating water has a decisive influence.

In addition to the overall hardness and electrical conductivity, the pH value, the dissolved and undissolved gases and circulating particles play an important role in terms of water quality.

With a low-salt filling water for heating systems according to European guidelines, it is indeed possible to act preventively against damage caused by limestone and corrosion, but during system operation the water quality is usually exposed to changes.

Impurities, old water residues, chemical pollution, general operating conditions and ingress of gases due to non-diffusion-protected materials can cause this change of water quality.

Electrochemical water treatment with the elector reaction tanks is a tried-and-tested method of maintaining the heating water quality at an ideal level during operation, thus avoiding rust, sludge and loss of efficiency.

#### Be on the safe side with elector!



Stable pH > 8.3 for the natural corrosion protection of metals, even in low-temperature systems, without the use of chemicals.



Continuous deaeration and electrochemical consumption of dissolved gases, such as oxygen and free carbon dioxide.



Proven to avoid sludge in underfloor heating, even at installations with old non-diffusion-protected plastic pipes.



System protection by separation of circulating magnetic particles and impurities.



Low-salt alkaline heating water in combination with deionized filling water, according to guideline recommendations.

**Electrochemical Water Treatment** 



Electrochemical water treatment is a proven method for heating water conditioning, which we have been using successfully for more than 25 years.

The method is based on the spontaneous formation of a galvanic element in the elector reaction tanks.

As a result of a series of chemical and physical reactions, the amount of dissolved oxygen in the heating water is reduced and the pH is stabilized.

In combination with deionized filling water, an elector enables the heating system to be protected with a low-salt alkaline heating water.



Renowned manufacturers, such as the heat pump manufacturer Glen Dimplex, recommend the use of an elector in nondiffusion-proof underfloor heating systems!

**Recommended by others!** 

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Electrochemical Heating \	Water Conditioning
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Туре	max. Heating System Volume	Installation site	max. m <sup>3</sup> /h
elector XS5	0,5 m³	Vollstrom	2,4
elector S10-V	1,5 m³	Vollstrom	
elector S10-B	1,5 m³	Bypass	0,12
elector M25	5 m³	Bypass	
elector L60	10 m³	Bypass	0,6
elector XL130		Bypass	
elector XL+300		Bypass	3



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