

# Changing the way we manage water. For good.



## The DeCalon™ (DCI)

DeCalon™ (DCI) is a revolutionary approach to eliminating scale in cooling water systems. Through applied electro-chemistry and a patented intelligent controller DCI removes water hardness from cooling systems without the need for hazardous chemicals. The innovation provides a green technology solution to scaling and corrosion in large building HVAC systems and industrial chiller circuits.

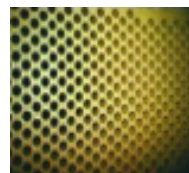
The DCI system removes existing scale deposits and prevents further scale formation by driving a non-spontaneous redox reaction which precipitates  $\text{CaCO}_3$  and  $\text{Mg(OH)}_2$  at the cathode. The main causes of scaling,  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$ , can then be dumped out of the recirculating cooling water.  $\text{SiO}_2$  is also removed.

The system operates continuously so design heat transfer efficiency is maintained at all times and the requirement for routine shut downs and descaling is removed. Water blow-down quantities are also reduced.

**The DCI is a genuine re-think on the way water is treated in cooling systems. It is unique in its ability to remove scale but not cause corrosion.**



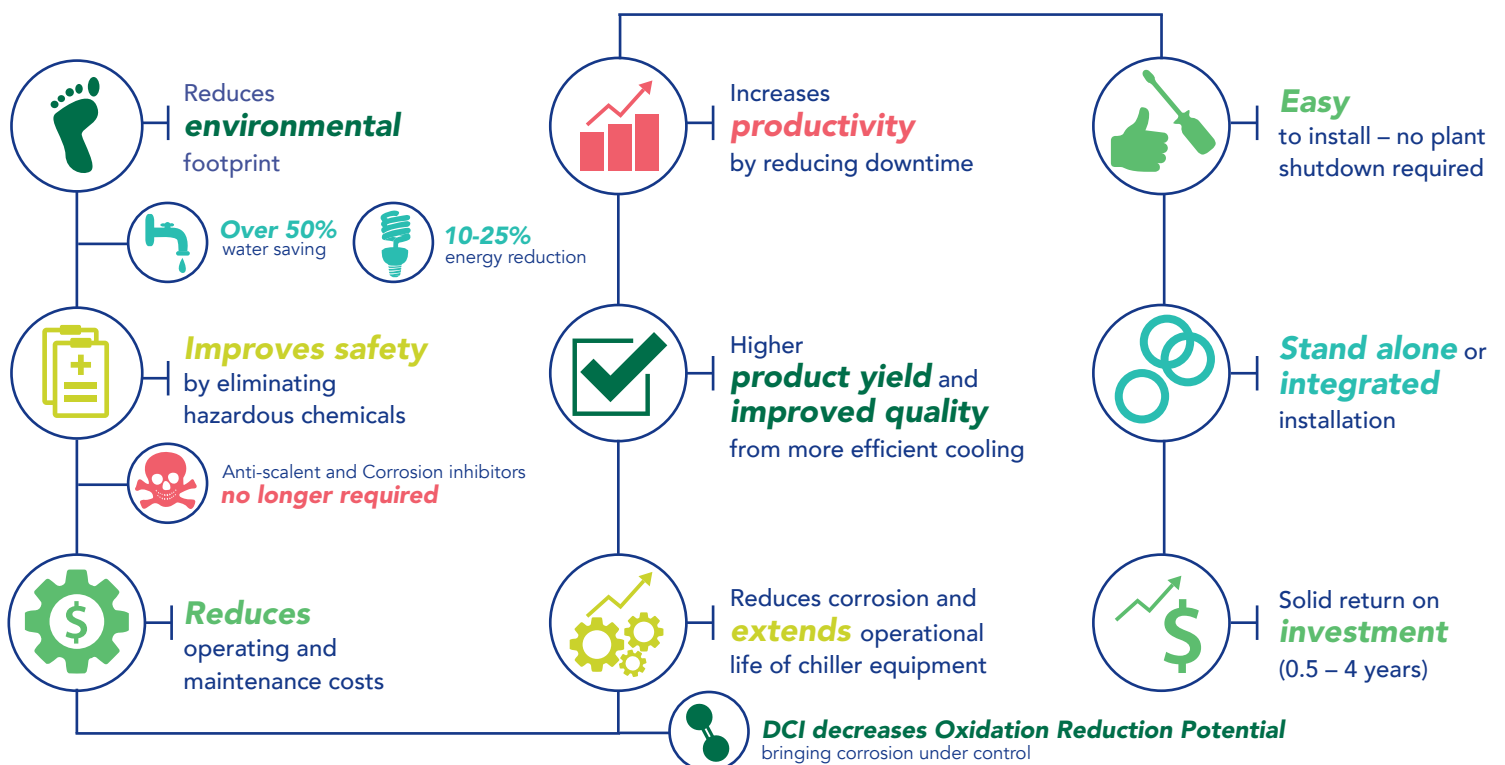
A badly scaled/fouled heat exchanger

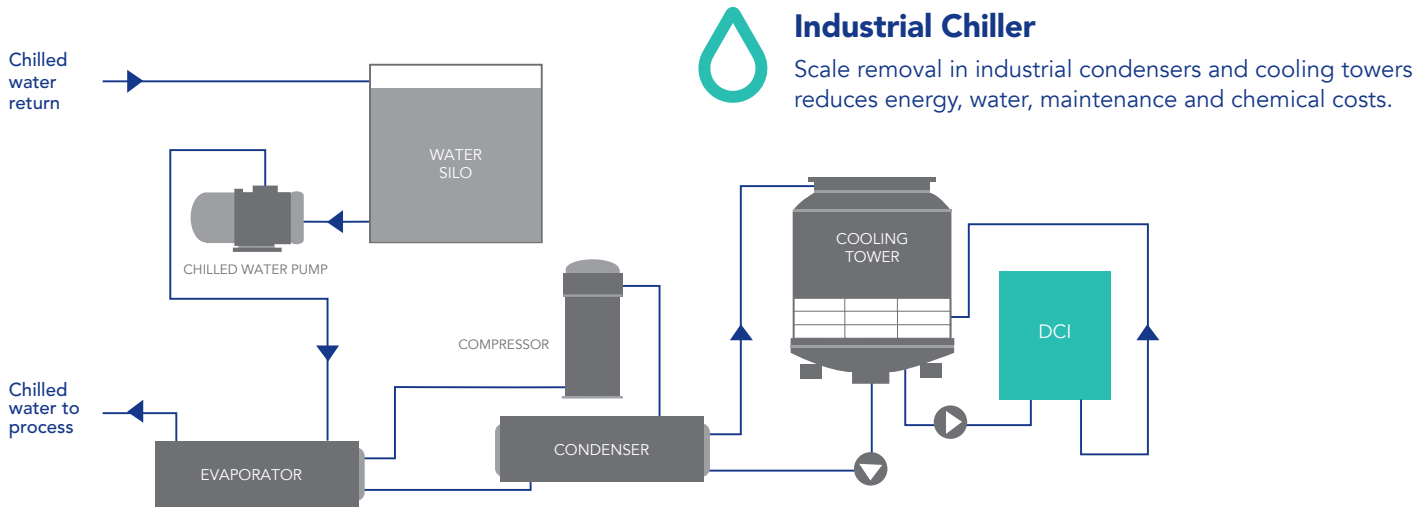


A well maintained heat exchanger



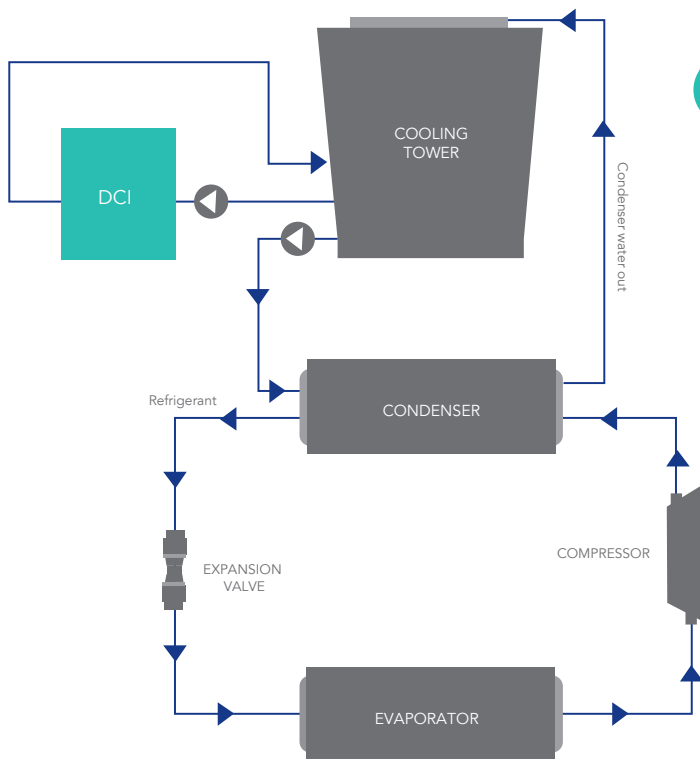
## The DCI system is green chemistry in action and delivers significant benefits





## Industrial Chiller

Scale removal in industrial condensers and cooling towers reduces energy, water, maintenance and chemical costs.



## Water Cooled HVAC Systems

A significant improvement in heat transfer and lower condenser approach temperatures leading to increased chiller efficiency.

## Easy to use Automation

- + The intelligent controller auto regenerates and maintains electrode performance
- + Auto Scale Dislodge and Discharge
- + Auto Conductivity Control
- + Auto Amperage Control



## General Specifications

Dimension (mm) - overall	W=700 D=380 H=1200
Weight	~50kg
Max Power Consumption	~600W
Max Operating Amp (DC) 0-5	15 A auto adjustable
Max Flow	2.25m <sup>3</sup> /h
Operating Pressure	1 bar
Input Power Source	Single Phase AC 240V, 50Hz

Specifications subject to change without notice.

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