

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 CaCO_3 and $\text{Mg}(\text{OH})_2$ at the cathode. The main causes of scaling, Ca^{2+} and Mg^{2+} , can then be dumped out of the recirculating cooling water. SiO_2 is also removed.

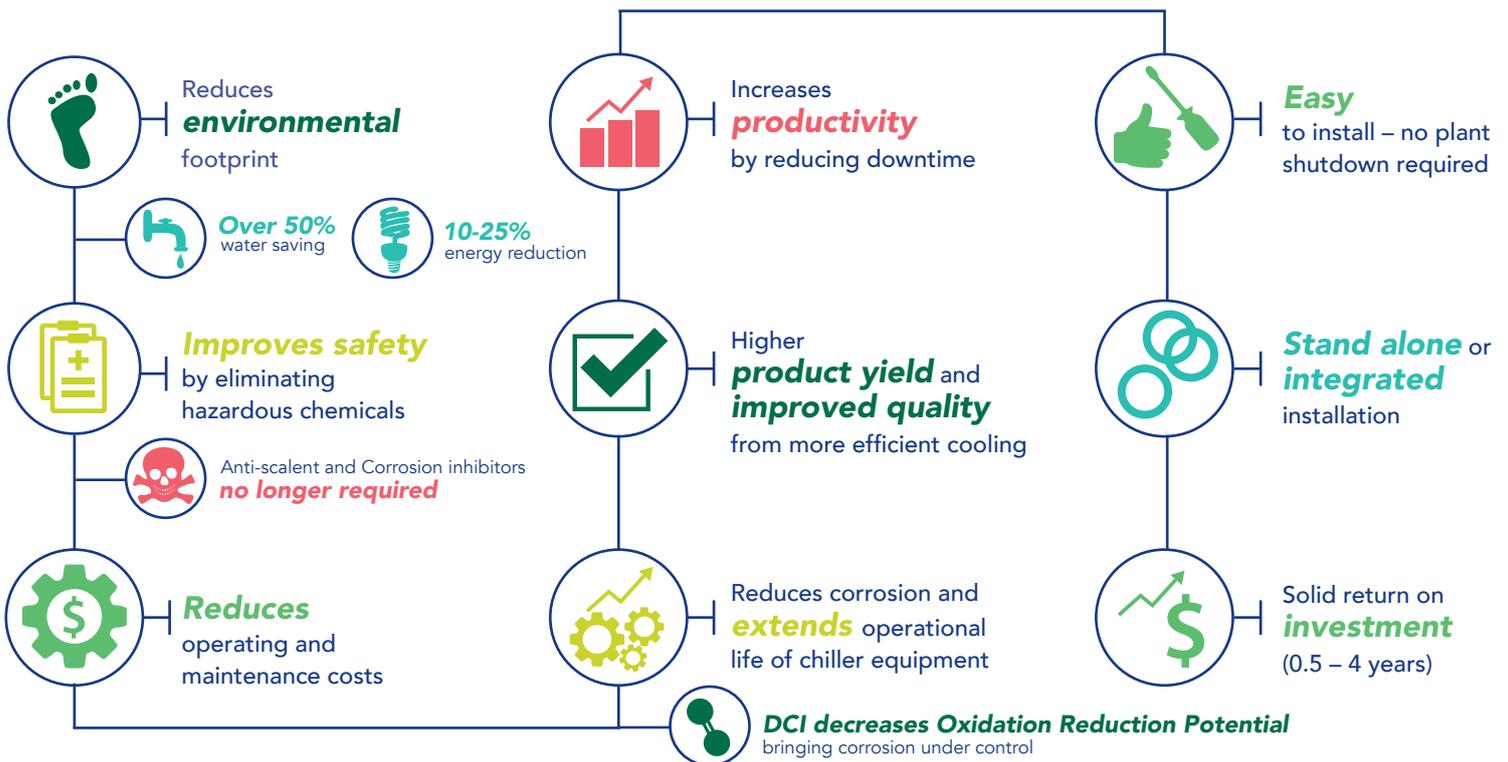
The system operates continuously so design heat transfer efficiency is maintained at all times and the requirement for routine shut downs and descaling is removed. Water blow-down quantities are also reduced.

Bacteriological control is maintained by CataGreen™ modules containing an anti-microbial immobilised on a fluidised bed of purpose-designed polymer beads. Operating continuously and automatically, the active within CataGreen™ acts to disrupt cell wall processes and inhibit cellular fusion.

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.



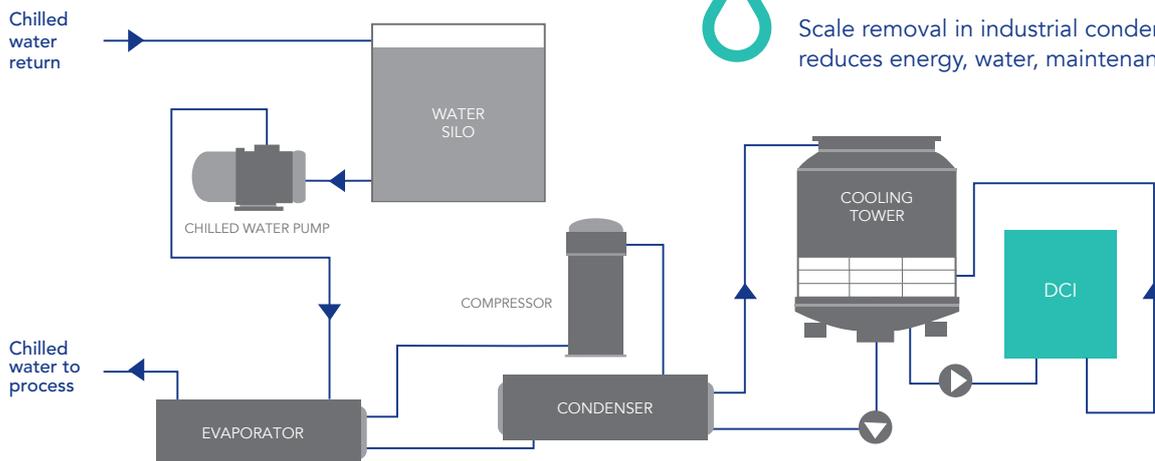
The DCI system is green chemistry in action and delivers significant benefits





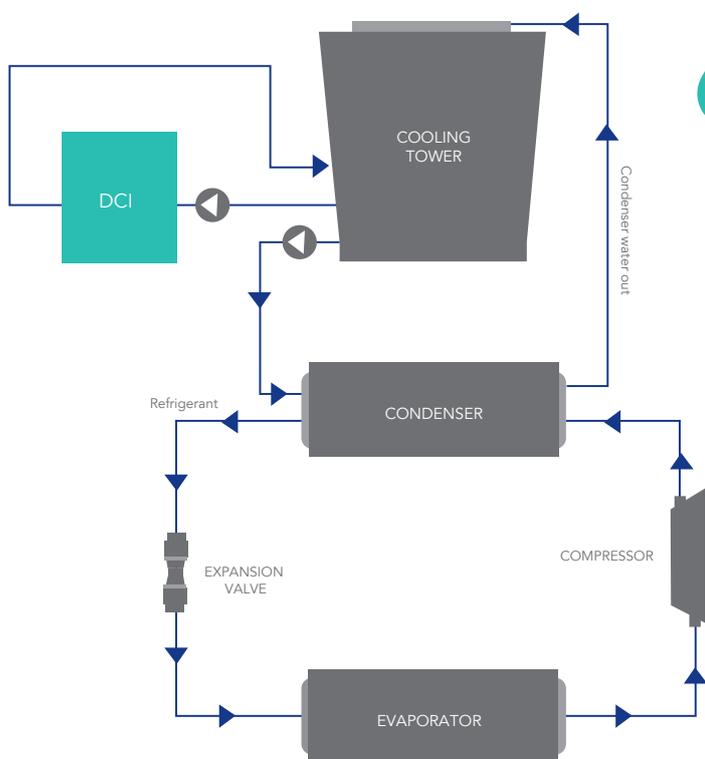
Industrial Chiller

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

- + Auto Scale Dislodge and Discharge
- + Auto Conductivity Control
- + Auto Amperage Control
- + Comms interface tailored to customer needs



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 ³ /h
Operating Pressure	1 bar
Input Power Source	Single Phase AC 240V, 50Hz

Specifications subject to change without notice.

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