



A division of ChemCodd PTY Ltd

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www.ScaleAway.co.za

FILTRATION & CHEMICAL TREATMENT FOR INDUSTRIAL WATER CHILLERS

To maintain and control water pH between 7.5 and 8.5 and to maintain water quality, ScaleAway will adopt a four-prong approach.

This will provide an effective and holistic cooling chiller management system which entails the following components:

- Stage #1 - Industrial Water Chiller Cleaning Service
- Stage #2 - Ion-Exchange Water Softener with Pre-Filter.
- Stage #3 - Automatic Water Treatment Chemical Dosing System.
- Stage #4 – Post filter with by-pass bridge to heat transfer equipment.





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WATER FILTRATION & WATER TREATMENT FOR WATER CHILLERS (continued)

Stage #1 - Industrial Water Chiller Cleaning Service. The removal of water scale, limescale, sludge and rust from the waterside of your chiller with scale removers and dispersant is of paramount importance for the efficiency of your industrial water chillers. Flush out existing sludge and fouling to sewer. Power wash inside of chiller with <i>ScaleAwayBIO</i>. Rinse chiller and purge dirty water from pipe reticulation. Refill chiller with clean water. Dose chiller with <i>ScaleAwayA900</i> anti-scalant for closed loop cooling systems to 3000 ppm.	 A photograph showing the interior of an industrial water chiller. Numerous parallel metal tubes are visible, arranged in rows. Some tubes appear to be covered in a brownish-orange residue, likely rust or scale, which is being cleaned.
Stage #2 - Ion-Exchange Water Softener with Pre-Filter. Supply and fit 1x water meter with electronic pulse timer and 10" Big Blue pre-filter. Supply and fit 1x automatic ion exchange water softener system to reduce the calcium and magnesium ions in the make-up water feeding the water chiller. Filter cartridge for pre-filtration will be replaced monthly. Ion-Exchange resin beads to be replaced as required. Sodium Chloride in brine tank to be replaced as required.	 A photograph of a water filtration system installed outdoors. It includes a black pre-filter canister, a blue ion-exchange water softener tank, and a black brine tank, all connected by a network of pipes and valves.



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Stage #3 - Automatic Water Treatment Chemical Dosing System. Supply and fit 1x <i>ScaleAway ACDS (Automatic Chemical Dosing System)</i> to chemically treat the cooling water in the chiller. Supply and fit 1x water meter with electronic pulse timer and <i>Smart-Start</i> system. Supply and fit 1x measuring and dosing branch for conductivity probe and blowdown solenoid valve. Dosing to be fed through automatic side-stream filter to distribute chemicals evenly. <i>ScaleAwayA900</i> is a viscosifier/ filtrate control/ multicomponent inhibitor that provides ferrous metal corrosion protection, copper alloy corrosion protection and scale inhibition in closed cooling water systems.	
Stage #4 - Inline Post-Filter Bridge from chiller to heat transfer equipment inside the Factory. Supply and fit 1x disk filter with post-filter bridge on factory water supply to factory from water chiller. • Supply and fit 1x disk filter with 10-micron disks. • Supply and fit 1x 3 valve bypass post-filter bridge for filter maintenance.	

Industrial Water Chillers Maintenance - Closed Loop Systems

A dirty chiller will adversely affect operations and require more power (increasing energy costs) to get the same cooling output as a clean chiller. A dirty chiller system also must work harder, which puts excessive strain on the motors and the integral mechanical systems that include pumps and bearings. The result, obviously, is a shorter operating life of the system.



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Glass on the left has a metal coupon partially submerged in normal tap water.

Glass on the right has a metal coupon partially submerged in water taken from the sump of a treated chiller.

Poor water management may lead to equipment manufacture warranties being voided, leading to unnecessary unforeseen expenses and insurance claims may also be repudiated due to equipment neglect.

Contact us **TODAY** to discuss a water management solution for your specific application!