



WATERTIGER™

Closed-Loop Water Treatment

Heating Systems • Chilled Water • Heat Pumps • Steam Condensate



The Problem:

Iron-based **suspended solids & sludge** commonly known as magnetite and hematite create **detrimental conditions** within heating and cooling loops which contribute to **premature failures** in piping, fittings, valves, regulators, pumps, bearings, seals, instrumentation & controls, boilers, chillers, heat exchangers and other components. Should these iron deposits coat the heat transfer surfaces, **operating costs increase** due to higher energy requirements (ie. natural gas or electricity) necessary to attain the proper temperature of the heat transfer fluid in the circuit.

Typically chemical corrosion inhibitors are added to heat transfer fluids (ie. water, glycol, etc) to ensure corrosion rates remain within specified industry standards (ie. Mild steel < 2 mpy) however if high suspended solids are the norm then the inhibitor actually adheres itself to the particulate as opposed to corrosion inhibitor film formation solely on the actual piping system itself. This in turn **promotes further corrosion** to proliferate due to lack of proper corrosion protection on the system pipe.

Application: Removal of Iron-Based suspended solids in closed-loop.

Avoid costly capital spending – use a short term rental option.

Victoria	524 William St.	(250) 412-1110
Burnaby	186-5489 Byrne Rd.	(604) 630-1114
Courtenay	212-2459 Cousins Ave.	(250) 331-0888

www.watertiger.net



The Solution:

Ferroclean & Heifitop Closed-Loop Non-Chemical Treatment German Engineered

Left: Clean water after treatment,
Right: Dirty water from heating loop
in Senior Care Home in Burnaby, BC
(same water sample)

How does it work?

The prefabbed unit is temporarily piped into your loop either directly on the loop (smaller systems) or as a sidestream (larger systems). Periodically (daily to weekly) the units are flushed to drain until your loop is cleared up. Depending on the size of the loop and the extent of the corrosion, this may take from 1-2 weeks to a couple of months.

The Heifitop unit uses a stainless steel filter brush to remove suspended debris down to 15 microns from the water and automatically vent out dissolved oxygen and air which contributes to corrosion. The Ferroclean attracts ferrous (magnetic) particles typically smaller than 1 micron which are retained in the unit and then flushed out by the operator. All this is done with no consumable parts and minimal water/glycol loss.

Contact us for Pricing

We can provide a no-charge test of your water/glycol to confirm results before you commit.

Effects of Deposits on Heat Transfer				
	1/64" (0.4mm)	1/32" (0.8mm)	3/64" (1.2mm)	1/16" (1.6mm)
High Calcium Content	1%	2%	2.9%	3.8%
High Iron Content	1.5%	3%	4.5%	5.9%
High Iron & Silica	3.4%	7%	10.6%	14%

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