

SofTek™ and SSBrom™

An Economic Analysis

MB0411



Using an example 500 ton thermal load cooling tower operated with a standard water management program at 3 cycles of concentration (COC) and comparing it to a patented* SofTek – SSBrom program operated at 8 COC, makeup water hardness of 200 mg/l, we have calculated the following capital and annual operating costs.

Cost Item	Standard Program	SofTek – SSBrom
SofTek – SSBrom System Equipment	\$ 0	\$13,700
Blowdown	2,422,688 gpy	950,616 gpy**
Blowdown Water Cost @ \$4.50/1000 gal	\$10,902	\$4,278
Sewerage Cost @ \$2.75/1000 gal	\$6,662	\$2,614
Inhibitor Cost	\$4,550	\$3,547
Biocide Cost	\$4,900	\$0
Softener Salt	\$ 0	\$2,154
Monthly Service Charge	\$1,920	\$1,920
Total Operating Cost	\$28,934	\$14,513

** Includes softener regeneration wastewater

Annual Operating Cost Reduction = \$14,421

A cost reduction which exceeds the installed cost of the SofTek – SSBrom System equipment package and you are saving 1,472,072 gallons per year of fresh water.

We provide the complete SofTek - SSBrom package: softener, control equipment, and soft water chemistry: everything from one supplier, for any size or use cooling tower.

ProChemTech International, Inc.

“Innovation in Water Management”

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*SofTek US patent 7,595,000, SSBrom US patent 7,927,470