



Enerfacts Technical Bulletin 715

How ENERCON Can Reduce Your Cooling Budget

EXCESSIVE TOWER BLEED-OFF WASTES WATER

Cooling towers are designed to conserve water and chemicals; however, many are operated in such a manner that optimum conservation is not achieved and both water and chemicals are needlessly wasted. Control equipment and a properly designed and controlled chemical treatment program will result in a more efficient use of your cooling tower and reduce water and chemical costs.

Example: utilizing an automatic bleed & feed controller and an effective chemical treatment program, a 500 ton cooling tower operating for 3000 hr/yr could decrease water losses by 3,888,000 gallons per year through increasing concentration from 2 cycles to 5 cycles. At a water cost of \$5.37/1,000 gallons, this represents a saving of \$20,878 per year.



DEPOSITS WASTE ENERGY

A very light coating of slime and/or scale (no thicker than a human hair) causes a significant increase in the electrical consumption of your chiller.

Example: A light coating of scale on the condenser tubes of a 500 ton air conditioner operating 12 hrs/day, 240 days/yr will require a 13% increase in electricity. At \$0.844/KWH, this becomes \$15,800 excess cost per year.

CORROSION CAUSES DOWNTIME, EQUIPMENT REPLACEMENT

Corrosion of the various metals in your A/C system can result in equipment downtime and costly replacement of failed piping and other parts. Particularly damaging are leaks in chilled water pipes; which run through walls and ceilings of buildings. Corrosion products also tend to deposit on condenser tubes, impeding heat transfer, resulting in lower efficiencies and high costs. Effective treatment of the system water will control all of these problems.

Contact ENERCON WATER TREATMENT LTD. for information on how to protect your particular system.

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