



# Focus on Fog

"Focus on Fog" is published electronically every two months with news, views and technical tips for all MicroCool customers, dealers and agents worldwide. Announcements for all breaking news will be sent by regular email. To sign up for your personal copy of the MicroCool moment send your name, address, phone, fax and email to fogfocus@microcool.com

## MICROCOOL C<sup>3</sup> RESULTS SHOW POSITIVE GAINS IN SUMMER TRIALS

During the summer months MicroCool® have conducted various tests and trials to reinforce our findings on the effectiveness of the C<sup>3</sup> condenser coil cooling program.

Ongoing tests in California, Nevada, Saudi Arabia and Wyoming have shown that there are positive savings to installing the system with quick returns on investment.



Nevada Geo Thermal Plant

***Trials with the Costco facility in Palm Desert show that the electrical load is reduced (by up to 19%) and that head pressures are reduced on "treated" units.*** A data monitoring program recorded consistent savings between the "fogged" units and those operating "without fog".



Costco Cowl

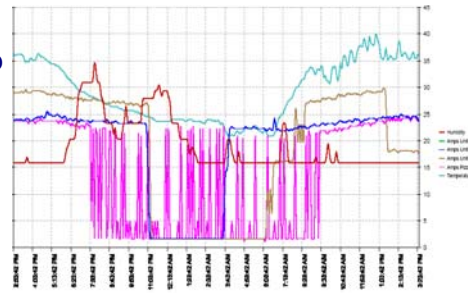
The "cowl" (fitted in September) increased savings by 3-4% and would be standard feature on future installations of this type, especially those affected by high winds.

Future options are to retrofit the whole Costco store (including the freezer coils) for the 2006 season.

We also have other systems in operation at a geothermal plant in Nevada. These have shown that the MicroCool system can reduce system pressures and increase power outputs from the plant.

A three stage system installed at a liquid gas plant in Wyoming allows the operator to select activation of various nozzle lines based on ambient temperature and humidity using a custom built controller. This saves not only energy but reduces any unnecessary wetting on the coil face.

Working with a strategic partner in Massachusetts, three systems are scheduled for installation early in 2006 on some supermarket chains to reduce energy costs.



Graph results of the Costco installation



Wyoming gas production

Continued overleaf.



# Humidification

From previous page.

The local utility company (in MA) has also allocated rebates in excess of 50% to help pay for the system.



**Payback times for MicroCool C<sup>3</sup> systems can now be calculated in months rather than years.**

At a power generation company in Jeddah (Saudi Arabia) the MicroCool C<sup>3</sup>

system was put to the test to check on performance and operation. The trial unit worked perfectly and has set the stage for the eight pump unit system to be delivered in early 2006 .

This has been a successful summer for the C<sup>3</sup> system in many different applications, we have certainly "turned heads" in our demonstrations of what is possible with a MicroCool system installed on the condenser coil.

For more information and copies of the reports, please contact C<sup>3</sup> specialist Mark Stanley (mark.stanley@microcool.com) .

## **Companies opt for MicroCool humidification packages and save\$\$\$**

The demand for industrial humidification is growing and MicroCool is at the forefront in design and implementation of custom made systems.

Two systems for cold storage operations have been commissioned this month for 24 hr a day use.

Both use a Reverse Osmosis system to ensure clean (hygienic) water is delivered to the nozzles; RO also removes the aqueous salts that would otherwise precipitate and damage production surfaces under the fog.

British American Tobacco in Pakistan have also recently ordered their second system for humidity control of their tobacco stores in the Lahore region.



**Less expensive than traditional systems MicroCool is an economical alternative that outperforms the others! .**

## **Craig's Corner**

*Operations Manager Craig Littleton is always on call to help customers. Here are some tips to get the best from your MicroCool® system.*

### **Improve Your System Performance—NOW!!!**

We are frequently asked about improving the cooling or humidification possibilities. Most systems can simply be improved by checking the performance of your nozzles and making sure that they operate at 100% efficiency.

Would you **turn off 50% of your air conditioning** in the summer (or heating in the winter)? - of course not! But that is what happens if your nozzles do not operate as they were designed to do with a wide pattern and droplets that evaporate quickly.

Contact me directly and I will explain how we can keep your system operating at 100%!

**MicroCool®**

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### **Company Information**

- Founded in 1981, MicroCool has pioneered the development of "Outdoor Cooling Systems" for Arid areas worldwide.
- Systems are used in various industries worldwide for cooling, humidification and "special effects".
- MicroCool® is a division of AxAir-Nortec Inc. ([www.humidity.com](http://www.humidity.com)) which is part of the AxAir Industrial Group specializing in Humidification for Industry worldwide [www.axair.com](http://www.axair.com)
- AxAir Industrial Group is part of the WMH Walter Meier Holdings AG