Goodway Technologies Presents

ED 2000 Electronic De-Scaling System

Electronic De-Scaling System

An Innovative Solution

To Prevent

Mineral Precipitation Scaling

Scale Formation

- Condenser Water
 - Mineral Ions
 - Calcium, Magnesium, Etc....
 - Increased Concentration
 - Cooling Tower Evaporation
 - Make-Up Water
 - Drift
 - Uncontrolled Precipitation
 - Untreated Mineral Fouling

How Does Scale Form ?



Adhering to Condenser Tubes



Product Overview

- Developed & Tested at Drexel University
 - Theory Established
 - Lab Validated
 - Field Validated
- Improvements
 Patented
- Reliable &
 Consistent
 Performance



Product Validation

- International Journal of Heat & Mass Transfer
- Compact Heat Exchanger Conference
- 1999 ASHRAE Conference
- York International
- API Heat Transfer
- Alfa Laval Thermal

ED 2000 Laboratory Validation

- International Journal of Heat and Mass Transfer
 - Use of ED 2000 with filtration
 - 1000 ppm
 - 1.5 gpm
 - 26-80 degrees C



ED 2000 Field Validation

- Results Reported at the 1999 ASHRAE Meeting
 - Use of ED 2000
 - 450 ton chillers
 - 1200-1500 hours
 - With and without
 ED 2000



<u>Un</u>controlled Precipitation



Controlled Precipitation



ED 2000 Electronic Anti-Fouling System



ED 2000 Coil & Enclosure

- Up to 20" Pipe Diameter
- Prewrapped Solenoid Coil
 - UL Rated NEMA 12 Enclosure
- ABS Weather Resistant Enclosure
 - Optional SS Enclosure
- 110 / 220 Volts
- Installs in Less Than 1 Hour on a Simple Installation





- Save Money
 - Reduce Energy Costs
 - Heating Systems
 - Cooling Systems
 - Extends Life of Boiler & Condenser Tubes
 - *w* Eliminates Chemical Cleaning of Tubes
 - Enhances Brush Cleaning
 - One Two Year Payback