

# ClimaGuard Air-To-Water Heat Exchangers



**HOFFMAN**

## WCHE SERIES INDOOR HEAT EXCHANGERS FOR SEALED CABINETS



### A ROBUST SOLUTION FOR COOLING CABINETS IN THE TOUGHEST INDUSTRIAL ENVIRONMENTS

ClimaGuard Air-to-Water Indoor Heat Exchangers are an efficient, maintenance-free and low-noise solution for cooling enclosures in industrial applications. These side-mount heat exchangers outperform passive cooling solutions and fans, and are particularly suited for applications exposed to high-ambient temperatures and/or extremely dusty and dirty conditions that make traditional air conditioners susceptible to mechanical failures. This is a rugged and reliable cooling technology unaffected by airborne contaminants, with no moving parts exposed to the environment.



### KEY FEATURES

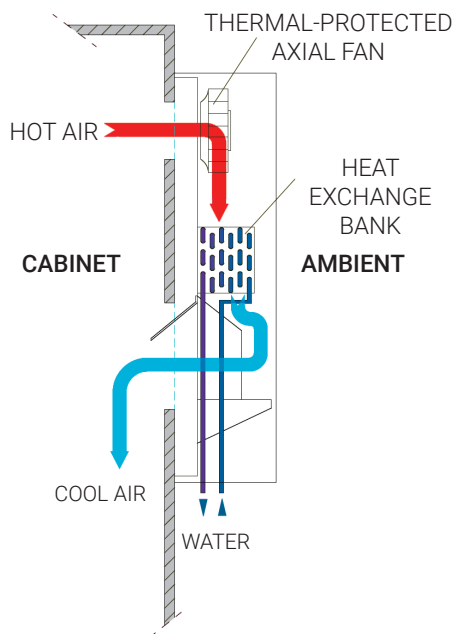
- **Cooling capacities** range from 870 watts to 6700 watts (3000 – 23000 BTUs/Hr)
- **Patented system** for recovery and evacuation of condensation (REC)
- **Filterless design** for ease of maintenance
- Uses standard NPT fittings
- **NEMA power cord** connection standard
- **Copper pipe and aluminum fins** heat exchanger core
- **Operates on up to 30% glycol** to water mixture
- **Regulating mechanical thermostat** set at 35° C (95° F), differential of 4° C (7° F)
- **Operating temperature** from 10-50° C (50-122° F)
- **Available in 115 and 230 Volt** power supply

### APPLICATIONS INCLUDE:

- Automotive
- Machine tool
- Non-woven/disposable
- Packaging
- Printing

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ClimaGuard Air-to-Water Heat Exchanger principle of operation

### COOLS AND PROTECTS

ClimaGuard Air-to-Water Heat Exchangers are designed for cooling electric cabinets. These models eliminate problems caused by high temperatures within or outside the cabinet while preventing damaging dirt and dust from penetrating the cabinet. A supply of cooling water (typically from processes or a cooling tower) is required at a temperature lower than the operating temperature within the cabinet. The water supply passes through copper tubes in the heat exchange bank, completely isolated from cabinet components. Heat is transferred through the walls of the copper tubes and aluminum fins of the exchanger, transferring heat to the

circulating water supply with no exhaust. With this efficient technology, the greater the temperature difference between the cabinet and cool water supply, the more heat is exchanged.

Because the technology transfers heat generated within the enclosure to a circulating water supply, heat is removed from the cabinet without being discharged into the surrounding plant floor. With ClimaGuard Air-to-Water Heat Exchangers, greater energy savings can be realized while reducing demand on existing HVAC systems. Capacities up to 6700 watts (23000 BTUs/Hr) meet a wide array of cooling requirements.

For more information and to contact us, go to: [www.nVent.com/HOFFMAN](http://www.nVent.com/HOFFMAN)

#### North America

Minneapolis, MN  
Tel: +1.763.421.2240  
Mexico City, Mexico  
Tel: +52.55.5280.1449  
Toronto, Canada  
Tel: +1.416.289.2770

#### South America

Sao Paulo, Brazil  
Tel: +55.11.5184.2100  
Boitura, Brazil  
Tel: +55.15.3363.9148

#### Europe

Betschdorf, France  
Tel: +33.3.88.90.64.90  
Straubenhardt, Germany  
Tel: +49.7082.794.0  
Dzierzoniow, Poland  
Tel: +48.74.64.63.900  
Lainate, Italy  
Tel: +39.02.932.7141

#### Middle East & Africa

Dubai, United Arab Emirates  
Tel: +971.4.378.1700  
Bangalore, India  
Tel: +91.80.6715.2001

#### Asia

Shanghai, P.R. China  
Tel: +86.21.2412.6943  
Singapore  
Tel: +65.6768.5800  
Shin-Yokohama, Japan  
Tel: +81.45.476.0271  
Seoul, Korea  
Tel: +82.2.2129.7755  
Qingdao  
Tel: +86.532.8771.6101



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