

CLIMAGUARD AIR-TO-WATER HEAT EXCHANGERS

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:

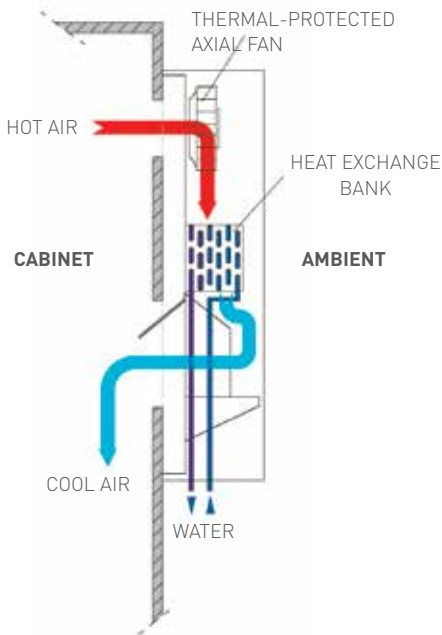
- Automotive
- Machine tool
- Non-woven/disposable
- Packaging
- Printing

Hoffman

DESIGN WITH CONFIDENCE

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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.PENTAIRPROTECT.COM



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