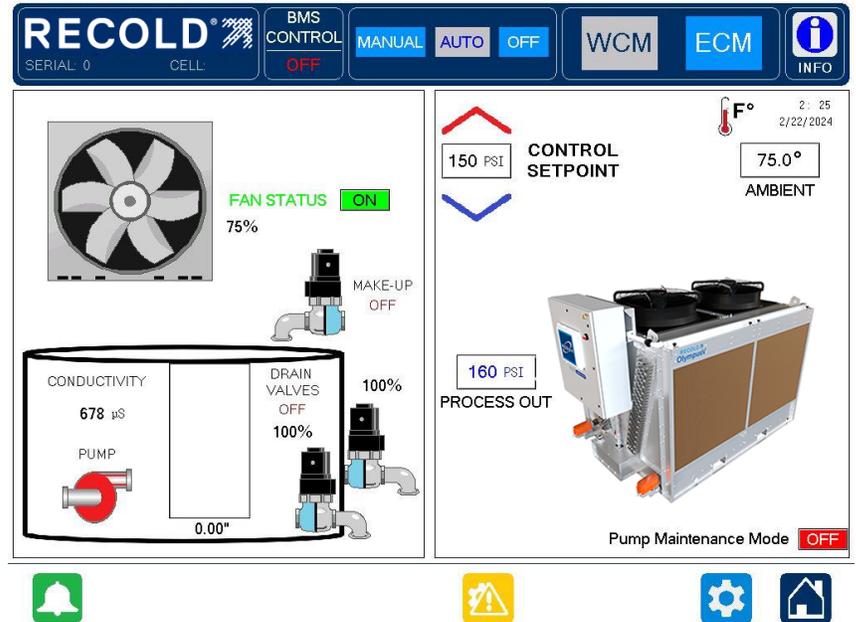




CoolBoost® Opti AD Control Panel for the OlympusV Adiabatic Series

Overview

The Recold® CoolBoost Opti AD control panel gives operators one enclosure for all adiabatic control needs, including pump, fan, water level and other vital communications. CoolBoost Opti AD helps optimize system performance through the conservation of energy or water, and offers other benefits including an upgraded user interface and faster integration.



Primary Benefits

Energy and Cost Efficient: With the speed controller and impeller built into a single module, easily operate EC fans offering increased efficiency, reduced energy consumption and minimizes maintenance costs.

Flexible Operating Modes to Optimize System

Performance: The full range of operating environments are satisfied by the software. Optimize between energy and water savings:

- ECM (Energy Conservation Mode)
- WCM (Water Conservation Mode)

Modernized Interface and Control Logic Provides

Intuitive Operation: One enclosure for all Adiabatic control needs: PLC, HMI, Pump, Fan, Communication and Water Level. Comprehensive dashboard provides all status conditions at a glance. Operating commands of the

Integral PLC allows control source options: BMS/BAS, Manual, Auto or Off.

Saves System Integration Time: The Control Panels of Adiabatic EC units are prewired at the factory and provides Single Point Power Connection. The “plug and play” configuration saves customer panel design time and electrician hours. RS845 compatibility simplifies integration into BMS systems for monitoring, controlling remotely, and saving historical data.

Electrical Components

- Integrated PLC provides run commands and operating logic for the fan motor's, adiabatic spray and water management.
- HMI enables the unit displays status and allows different modes of operation.
- Ethernet communication is integrated to monitor status, compile historical data collection and enable remote operation.
- NEMA 3R painted cabinet includes an external disconnect handle with padlocking provision to meet lockout/tagout safety requirements.
- Main circuit breaker has thermal and magnetic overload protection.
- Process monitoring transducers provide real time system feedback:
 - Refrigerant Pressure Out
 - Ambient Temperature
- Motor protection circuit breakers protect against overload and short circuit currents.
- Wiring diagram is laminated and mounted inside the enclosure panel for easy troubleshooting.
- Integrated Liquid Level Control Ultrasonic.
- 65K SCCR, Short Circuit Current Rating.
- Built to UL508 and cUL508 safety requirements.

Options

- NEMA 4X Stainless Steel or Fiberglass Enclosure.

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