



CTC Low Temperature Process Chillers

5 - 500 Tons



When commercial grade isn't enough

When it comes to process cooling, every customer need is unique in its requirements. That is why Motivair's® CTC range of process chillers specifically focuses on low temperature applications with a versatile range of cooling capabilities. A broad selection of available options allows the project team to tailor a chiller to their specific process cooling need.

As an industry leader in mission critical chiller and cooling systems, we aim to deliver innovative and customized products for unique applications, reliable solutions and an unwavering commitment to excellence.

motivair®
COOLING SOLUTIONS

PLC Controls

WHEN MAXIMUM UPTIME AND LOWEST TCO MATTER MOST

The Motivair® low temperature process chillers feature the PCO5 control system, which is an advanced Programmable Logic Controller, with a base-operating platform that can be easily modified to adapt to various applications.

A multi-character LCD display, and easy to follow directional prompts, give the operator complete control over all chiller functions. Multiple digital and analog inputs as well as digital and PWM outputs offer unparalleled control possibilities.



CENTURION MONITORING SYSTEM

The Latest generation of Motivair® software allows the chillers to respond to system changes in real time and to adjust performance accordingly. The proprietary control logic in the Motivair Low-Temperature Process chillers provides:

- Automatic restart after a power outage
- Rapid restart of refrigeration compressors after a power outage, while affording maximum compressor protection
- Selective decision on which compressor(s) to start first based on run-time and fastest possible response to system load
- Liquid injection to the compressors under high ambient operation



CONTROL FEATURES OF THE PCO5 INCLUDE

- Highly visible LCD display
- Tactile push-buttons
- Adjustable alarm set points
- °F/°C selectable
- Compressor Lead/Lag control
- Anti-Compressor short cycle
- Compressor failure alarm
- Adjustable water set point
- Supply water temp. display
- Return water temp. display
- Low water temperature alarm
- Freeze alarm
- Low water/glycol flow alarm
- High water temperature alarm
- Low refrigeration pressure alarm
- High refrigeration pressure alarm
- Irregular voltage alarm
- General Alarm Relay
- Remote Start/Stop Relay
- Manual alarm reset
- RS 232/RS 485 communication
- Ethernet Communication
- LON, BACNET, MODBUS communication (optional)

INTELLIGENT CHILLER RESPONSE

This optional feature empowers the owner by providing a wide range of safeties and access to critical data from a remote location via cellular service, outside of the customer's firewall.

If the chiller is operating in an unsafe condition or in the unlikely event of an alarm, designated contacts are immediately notified by the chiller of its condition. The pending alarm can then be avoided or quickly corrected.

FEATURES:

- Data trending
- Password protected multi-level access
- Adjustable warning thresholds

motivair[®]

COOLING SOLUTIONS



MPC & MPC-FC

1/2-90 ton packaged air-cooled or water-cooled chillers for Industrial cooling, Medical cooling or custom HVAC applications. Includes integrated microprocessor, pump station, and storage reservoir.



MLC & MLC-FC

60-500 tons air-cooled, water-cooled & split system chillers for industrial or HVAC applications. Available Integrated Free-Cooling.



MLC-SC AIR-COOLED SCROLL CHILLERS

100 – 285 tons air-cooled with scroll compressors to accommodate a wide range of operating points and customization for today's advanced industrial manufacturing and mission critical environments. Available Integrated Free-Cooling.



PTS

Pump/Tank Stations for chillers and cooling systems. Standard and custom designs available.



MFC

Closed loop dry-coolers for process cooling and remote "Free-Cooling" applications.



CHILLED DOOR[®] RACK COOLING SYSTEM

Advanced server rack cooling system fits in standard or OEM computer rack. Removes up to 75 kW of server heat per door. Learn more at www.chilleddoor.com



CDU

In-Rack and Floor Mount Coolant Distribution Units (CDUs) provide 100% sensible cooling up to 1.25MW, depending on the model. For use with the ChilledDoor[®] or other IT cooling systems.

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