

NQ Series Accuchiller Portable Chillers

AIR-COOLED, WATER-COOLED, OR
REMOTE AIR-COOLED CONDENSER

4 to 40 tons

Since 1969, Thermal Care has been a leading provider of process cooling solutions for a variety of industrial applications. Every NQ Series Accuchiller Portable Chiller is built using the best available components and latest innovative technology – making us the unmatched choice for all your process cooling needs.



NQW08

NQA20

NQA05

Innovative, reliable, and efficient

NQ Series Portable Chillers will provide years of dependable service using quality components such as scroll compressors, micro-channel condensers, low noise fans, stainless steel brazed plate evaporators and R410a refrigerant. Plus, units are now available with optional energy-efficient VFD compressors. Sophisticated controllers add to each chiller's performance, reliability and efficiency.

Innovative, reliable, and efficient

Features

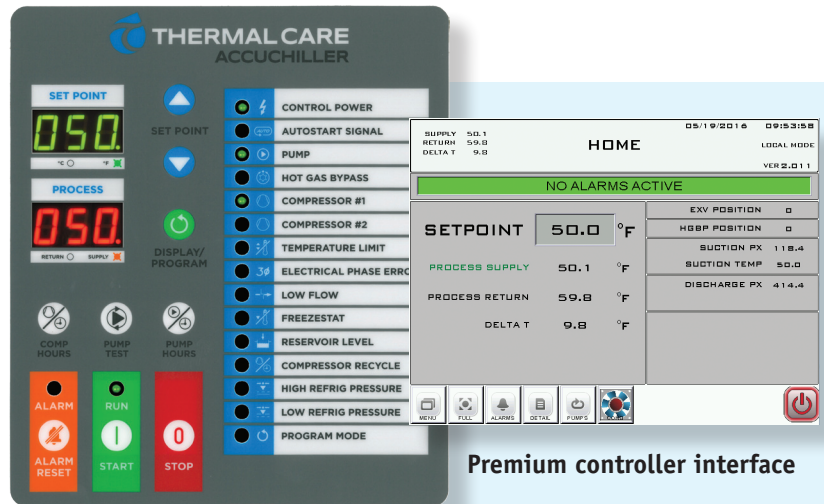
- High efficiency, low noise fans
- Stainless steel brazed plate evaporators with flow and temperature safeties to prevent freezing
- Low voltage 24 VDC control keeps the control circuit signals free from AC interference
- C-UL 508A industrial control panel with single point electrical connection
- Rotary non-fused disconnect for quick and safe main power disconnect
- Remote 4-20 mA set point input capability for increased application flexibility
- Wetted materials in the process water circuit, including a stainless steel pump, are 100% nonferrous
- Modulating hot gas bypass provides accurate capacity control and extends compressor life

Available Options

- Outdoor duty construction
- Two pump system with dedicated pumps for process and recirculation
- VFD compressor for energy savings

Warranty Protection

- 5-year warranty on the standard controller with a lifetime exchange price of \$175
- 3-year warranty on the optional premium controller PLC
- 18-month warranty on parts
- 12-month warranty on labor



Standard controller interface

Premium controller interface

Choose From 2 Easy-to-Operate Controllers

Our **standard** microprocessor control panel has a large, user-friendly interface, includes 19 operational and diagnostic lights, and comes with a unique 4-plug wiring design that makes it easy to replace the control board in just minutes.

The more advanced, **premium** controller option comes with a PLC that features operational and diagnostic screens with a touch screen interface. Both control panel display screens are easy to access, view, and operate without cryptic codes.

Controller Features

- Display of set point, process supply and return water temperatures
- Unit alarms easily reset on control panel
- Password protected operational parameters
- Start-to-start anti-cycle timer prevents short-cycling of compressor while minimizing unnecessary off periods
- RTD temperature sensors and PID temperature control loops provide precise and consistent process temperatures within +/- 1°F accuracy
- Temperature readouts easily switched from °F to °C
- Compressor and pump running hours
- Pump test button allows for quick and easy pump rotation check from the main control panel
- Reservoir low level alarm and cut-off safety shuts down chiller if there is not enough water
- Loss of flow alarm
- Supply and return temperature sensor fault alarms

Controller Options

- Remote control panel
- SPI communication
- ModBus RTU communication
- Set point ambient tracking



Typical air-cooled unit with tools-free removable doors for easy access to interior components.



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Thermal Care is ISO 9001 Certified
 Manufacturer reserves the right to change specifications or design without notice or obligation.