Food Processing
FULL LINE OF PROCESS COOLING EQUIPMENT

Where water means business.
The THERMAL CARE Portable Accuchiller Family

Accuchiller EQ - 1 to 3 ton
Accuchiller NQ - 4 to 40 tons
Accuchiller NQV - 5 to 20 tons

Connex4.0
Available CONNEX4.0 capable for remote monitoring and multi-unit system control

Premium Control Panel
Available C-UL 508A industrial control panel with high-quality components that are safe and built to last

Durable
Stainless steel pump, evaporator, and non-ferrous water circuit for trouble-free long life of the chiller

Extreme Efficiency
Available variable-speed scroll compressor provides outstanding part-load efficiency and capacity control. The chiller works only as hard as necessary to provide optimum performance with significantly reduced power use.

Proven Reliability
Direct drive scroll compressor ensures low maintenance and high efficiency

Outdoor
Features include outdoor-duty paint, galvanized metal components, and entirely weatherproof controls.

Precision
Features include white cabinets, stainless fasteners, and non-marking casters. Calibration certificates are also included for precise temperature control compliance.

Portable Chillers are available for many different types of applications and industries.

www.thermalcare.com
The THERMAL CARE Central Chiller Family

Accuchiller **TC** - Variable Speed Centrifugal Compressor
Accuchiller **TCF** - Hybrid Film Evaporator with Variable Speed Centrifugal Compressor
Accuchiller **TSE** - Scroll Compressor
Accuchiller **MX** - Rotary Screw Compressor

**CONNEX4.0**
Available CONNEX4.0 capable for remote monitoring and multi-unit system control

**Advanced PLC**
System with large color touch screen for precise control and remote monitoring

**Dynamic Lift**
Adaptable control technology for increased part-load efficiency with automatic lead/lag sequencing

**Premium Control Panel**
C-UL 508A industrial control panel with high-quality components that are safe and built to last

**Corrosion Resistant**
Stainless steel brazed plate evaporators for efficiency and corrosion resistance

**Compact Design**
Easy to locate in your facility with modular design for easy expansion for systems up to 1,500 tons of cooling

**What CONNEX4.0 will do for you**
Integrated connectivity and secure remote access for all of your equipment.

CONNEX4.0 provides secure remote access and control to all connected equipment so you can have confidence your process is running smoothly no matter where you are. Plus, alarms or warnings are in real time to help you respond quickly in scheduling maintenance for added peace of mind.

www.thermalcare.com
The THERMAL CARE Temperature Controller Family

Aquatherm RQE - Up to 48 kW and 10 HP
Oiltherm RO - 6 to 36 kW
Vactherm RV - 9 kW, 2 HP

Advanced Controls
Available in three options for standard to specialized applications for ease of operation

Extensive Options
Wide range of high-flow pumps, heaters, solenoid valves, and other options to meet every need

Extend Product Life
Seal Saver auto cool-down program sequence extends pump seal life

Easy to Use
Four swivel casters and front-facing supply and return pressure gauges for ease of use

Extreme Efficiency
High-flow pumps provide more flow for faster cooling and better cycle times

Leak Prevention
Leak-proof pump/heater casting eliminates pipe fittings and potential for leaks

Leak-proof pump/heater casting eliminates pipe fittings and potential for leaks

Oiltherm RO
- Stainless steel heat exchanger for tool cooling and rapid cool-down during tool changes
- Vacuum option and internal oil storage capacity allows for process oil to be pulled back to unit
- Convenient oil reservoir fill port
- 125°F to 575°F operating range to meet the needs of a wide range of applications

Vactherm RV
- A perfect balance of positive pressure to the tool and an adjustable vacuum on the return line to stop leaks and maximize cooling
- Automatic function cools the unit down to 105°F and indicates when the unit is cool enough for a tool change or maintenance
- High-efficiency copper tube heat exchanger mounted in the water reservoir ensures outstanding reliability and low maintenance

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The THERMAL CARE Pumping System

PT Series - 250 to 6,000 gallons

Reliable
Discharge check valves stop supply line flow-back at shut down

Advanced PLC
System with large color touch screen for precise control and remote monitoring

Damage-resistant
Anti-vortex suction legs ensure no pump damage due to air entrapment

Durable
Stainless steel or fiberglass reservoir construction provides corrosion resistance

Available CONNEX4.0 capable for remote monitoring and multi-unit system control

Advanced PLC Control System - CONNEX4.0 Ready
Each PLC communicates with THERMAL CARE’s plant-wide central monitoring system.

The PLC controls, monitors, and maintains stable and reliable operation of the pumping system. A durable color touch-screen HMI displays a variety of operational screens for an uncomplicated view of the system, including time stamped faults or alarms and compressor and pump hours.

Features include:
- LCD color touch screens
- Remote monitoring from any computer or mobile phone
- Expandable multiple system control
- Controls including Alarm Status, Compressor Staging, Remote Start/Stop, and more

Available CONNEX4.0 Main Screen
www.thermalcare.com
The THERMAL CARE Cooling Tower Family

**FC Series** - 100 to 240 tons

**FT Series** - 38 to 120 tons

**High Temperature**
Available high temperature fill for demanding process applications (FC Series)

**Effortless Operation**
TEAO direct-drive motor eliminates need for belts, pulleys, or gear box maintenance

**Corrosion-resistant**
Rugged UV stabilized fiberglass shell and stainless steel fasteners resist corrosion and hard weather conditions

**Durable**
PVC fill and internal piping for long life and low maintenance

**Reliable**
10 year fiberglass shell warranty, 5 year warranty on fan motor (FC Series)

Our sales and support teams are ready! Give us a call today 847-966-2260

www.thermalcare.com
The THERMAL CARE Adiabatic Fluid Cooler

**HFCG - 50 to 500 tons**

**Minimum Water Usage**
During higher outdoor temperatures, the system calculates the precise amount of water needed and adjusts for peak performance.

**Cooling Tower Alternative**
Used for applications where reduced water consumption is required for 85°F to 95°F process cooling.

**Adaptive Fan Motors**
Regulates fan speed to maintain set point, using the minimum amount of fan energy necessary for peak efficiency.

**Premium Control Panel**
C-UL 508A industrial weather proof control panel with high-quality components that are safe and built to last.

**Energy Efficient**
For most of the year ambient air is circulated across the coils, eliminating the need for water evaporation at lower outdoor temperatures.

**Fully Wetted Adiabatic Pads**
Uses full size, externally mounted, completely saturated adiabatic pads for maximum cooling with the least amount of water consumption.

**Closed Loop System**
Circulates fluid inside the coil tubes isolating it from ambient contamination and minimizing the potential for scale build-up from evaporation.

www.thermalcare.com
The THERMAL CARE line of water treatment and filtration equipment

**Water Treatment System**

**TWC Series**

*Single point monitoring and control of corrosion inhibitor, biocide, and bleed-off.*

**Features:**

- Tower water conductivity is monitored and purges dirty, scale-producing water from the system.
- A powerful microbiocide is added at timed intervals to kill all algae-producing bacteria.
- Corrosion inhibitors are added to protect all metals in the tower system.

**Filtration Equipment**

**Filtration Equipment**

**Features:**

- Economical and dependable options for water filtration.
- Heavy duty suspended solids are removed from both cooling tower and chilled water systems.

**Plate and Frame Heat Exchanger**

**HX Series**

*Provides clean, closed-loop water when used in conjunction with a cooling tower or chiller system to reduce operating and maintenance costs.*

**Features:**

- High efficiency from specially designed stainless steel corrugated plates.
- Low initial cost and expandable if cooling load increases.
- Large heat transfer area and minimum fouling with less downtime.

www.thermalcare.com
THERMAL CARE offers the most complete line of systems available for food process cooling applications. Tailored to each unique environment, anywhere from 1 to 540 tons, THERMAL CARE’s expertise in process cooling chiller manufacturing is unmatched.

Starting in 1969, THERMAL CARE continues to be on the leading edge of process cooling technology with energy saving and cost efficient product designs. While providing heat transfer equipment to more than 50 industries, THERMAL CARE specializes in meeting the specific needs of all customers by offering both standard and custom designed industrial process cooling solutions.

Whether you need a portable chiller, a plant-wide system, or help troubleshooting a problem, THERMAL CARE is here to help you through every step of the process.

Our customer service reps are trained technicians that can promptly diagnose a problem over the phone. They have direct access to information about all of your equipment including bills of material, CAD drawings, and equipment service history through our computer database. If a plant visit is needed, THERMAL CARE has an extensive network of service companies that can usually provide same day service.

Our parts department has a large inventory of available parts enabling us to have 99.5% same day shipments.