

**THERMAL
CARE** 

Accu *chiller*

Air-cooled
and water-cooled
portable chillers

LQ
AQ
SQ



Choose from a complete line of dependable Accuchiller portable chillers

No other manufacturer can offer you a larger selection of portable chillers than Thermal Care®. Whether you need an air-cooled, water-cooled or remote condenser model, chances are there's an economical Accuchiller model that meets your exact requirements—without costly upgrades or options.

Exclusive Compressor Protection Package

With our comprehensive Compressor Protection Package, you are assured dependable chiller performance with minimum downtime. The package includes a 2.5 minute anti-cycle timer that prevents excessive compressor cycling, a low-load thermostat to extend operating time at idle or low-load conditions, and a non-cycling low pressure switch specifically designed for Accuchiller portable chillers.

Standard or custom-designed models

Units in three different Accuchiller Series include standard models in sizes from ½ to 40 tons. Choose from the time-proven AQ Series, the reliable and quiet SQ Series or our most advanced LQ Series with efficient scroll compressors. Most sizes and styles are readily available from stock for fast delivery to your plant or facility.



LQ Series



AQ Series



SQ Series





The accurate Accuchiller microprocessor control system

Exclusive Accuchiller control systems have been designed for portable chiller applications. The entire panel is simple to understand and operate without confusing codes or unnecessary lights.

The unique four-plug wiring design allows the entire control board to be easily replaced within minutes. Plus, the entire control panel overlay has been completely sealed against possible contamination from dust, dirt or water.

**EXCEPTIONAL
WARRANTY COVERAGE—
AT NO EXTRA COST**

No manufacturer offers better or more comprehensive warranty coverage – warranties include:

- One full year on labor
- Eighteen months on parts
- Five full years on microprocessor with lifetime controller exchange price of \$175

Standard controller features:

Accuchiller portable chiller control systems come standard with the following features:

- 19 operational and diagnostic lights
- Two easy-to-read LED digital displays show "To Process" and "Set Point" temperatures
- Manual reset of safeties from front panel eliminates need to open chiller cabinet
- 2.5 minute compressor cycling delay prevents short cycling
- PID control program provides $\pm 1^\circ\text{F}$ accuracy
- Autotune program sequence allows fine tuning of PID parameters
- Self-adjusting high/low temperature deviation

Optional controller features:

Add these optional controller features for even greater portable chiller functionality:

- Hand-held, remote control operator panel
- SPI communications
- Audible alarm horn

- Power failure indicator signals brown out
- Easily switches between F°/C° temperature readouts from front panel
- Thirty minute deviation delay stops nuisance alarms during start-up and set point changes

- Low-flow protection
- High temperature indicator

Standard solid-state refrigeration safety switches offer protection from:

- High temperature
- High pressure
- Low pressure
- Freezestat

- "From Process" temperature readout
- Remote alarm contacts
- Remote on/off contacts
- Remote thermocouple/RTD input

LQ
AQ
SQ

LQ Series portable chillers

Available in air-cooled, water-cooled and remote condenser models in a wide range of sizes, advanced LQ Series portable chillers are built with highly efficient scroll compressors and other proven standard components like compact, stainless steel brazed plate evaporators and encapsulated solid-state safety switches. All units are equipped with a NEMA 12 control panel and connect easily to existing in-plant electrical systems.

Exclusive Compressor Protection Package included at no extra cost!

Horsepower Range
Air-cooled units 14-30hp
Water-cooled units 8-40hp

Air-cooled
LOA Series
with fan

Air-cooled
LQB Series
with blower

Water-cooled
LQW Series



Standard features on all LQ Series units include:

- **Hinge-pin, lift-off side doors** – come with flush mounted pop-out latches for easy access to interior components without tools.
- **NEMA 12 control panel** – provides control protection for most factory environments. Fused disconnect and NFPA-79 construction are available.
- **Powder-coat paint finish** – textured flat paint makes cabinet extremely durable, hides finger prints and cleans up easily.
- **Nonferrous construction** – comes with stainless steel pump and fittings to resist corrosion.
- **Microprocessor controller** – provides accurate settings and temperature readings.
- **Scroll compressors** – offer more reliable and energy efficient performance than conventional reciprocating compressors.
- **Internal insulated polyethylene reservoir** – comes with large capacity and 6-inch screw top.
- **Inlet air filter** – is cleanable and protects condenser coils on air-cooled models to assure maximum operating efficiency.
- **Solid-state safety switches** – allow electronic sensing devices to be easily replaced without refrigerant evacuation.
- **Hot gas bypass** – provides accurate capacity control and extends compressor life.
- **Water regulating valve** – keeps refrigerant pressure constant.
- **Stainless steel brazed plate evaporators** – prevent system freezeup.

**Air-cooled
LQA Series**



**Water-cooled
LQW Series**



Air-cooled LQ units come with choice of discharge air options:

Air-cooled LQ Series units can be equipped with either low noise propeller-type discharge fans or high-pressure blowers that allow ductwork to conventional vent discharge outlets. Units can also be retrofitted with blowers on-site at any time after initial installation.



Fan option



Blower option

AQ
SQ
LQ

AQ Series portable chillers

The reliable AQ Series portable chillers come in air-cooled, water-cooled and remote condenser models and are available in a wide range of sizes. These units feature a compact footprint and an easily accessible interior. Angled control panels makes units easy to operate and to read settings and temperatures.

Exclusive Compressor Protection Package included at no extra cost!

Standard features on all AQ Series units include:

- **Easily removable side and top panels** – allows for “tools-free” access to interior components.
- **Insulated polyethylene reservoir** – holds large capacity and comes with 6-inch crew cap.
- **Hinged control panel access with 1/4-turn fastener** – makes it easy to access controller wiring and electronics.
- **Smaller footprints** – takes up less floor space than chiller units from other manufacturers.
- **Nonferrous construction** – includes polyethylene tank and stainless steel pump.
- **Microprocessor controller** – provides accurate settings and temperature readings.



Air-cooled
AQ Series

SQ
AQ
LQ

SQ Series portable chillers

The versatile, top-discharge, air-cooled SQ Series portable chillers are built for quiet performance, easy access and years of dependable service.

Two recessed exterior panels with lockable, flush-mounted, pull-ring latches can be easily removed by one person and allow full access to the sensibly designed interior.

Horsepower Range
Air-cooled units 5-10hp

Exclusive Compressor Protection Package included at no extra cost!

Standard features on all SQ Series units include:

- **NEMA 12 control panel** – provides control protection for most factory environments. Fused disconnect and NFPA-79 construction are available.
- **Powder-coat paint finish** – gives cabinet extremely durable finish, hides fingerprints and is easily cleaned.
- **Nonferrous construction** – resists corrosion and comes with stainless steel fittings and water circulation pump.
- **Microprocessor controller** – provides accurate settings and temperature readings.
- **Scroll compressors** – offer more reliable and efficient performance than conventional reciprocating compressors.
- **Internal insulated polyethylene reservoir** – comes with large capacity design for easy filling.
- **Solid-state safety switches** – allow electronic sensing devices to be easily replaced without refrigerant evacuation.
- **Sensor manifold** – allows easy access to all water sensing devices.
- **Inlet air filter** – is cleanable and protects condenser coils to assure maximum operating efficiency.
- **Twin top-discharge fans** – discharge air quietly through top of unit.



Air-cooled SQ Series with top discharge fan and side inlet air filter



Let Thermal Care design an integrated cooling system just for you.

Get a custom-designed system at no extra charge. A system that increases productivity, improves cycle times and lowers energy costs.

No one offers a more complete line of heat transfer equipment and related services—including total system design and PLC integration.

Temperature Control Units

Get the best available units, with the best available warranties, at a surprisingly affordable price. *Aquatherm* water temperature controllers are built with high-quality components as standard and each unit delivers years of reliable service. *Oiltherm* hot oil and *Vacatherm* positive/negative pressure temperature controllers are also available.

Fiberglass Cooling Towers

Designed and manufactured to exacting standards, FC Series cooling towers are totally constructed of corrosion-resistant materials. Towers come with a full 10-year shell warranty and a 5-year warranty on the complete tower including the motor. Water treatment equipment and water filters are also available for both cooling tower and chilled water systems.

Pump/Reservoir Systems

Every pump/reservoir is custom engineered for each tower or chiller application. Standard features include a NEMA 4 control panel and controller with dual digital display, alarm horn, high temperature alarm, non-overloading pumps and solid deck. Reservoirs are available in fiberglass, polyethylene, steel or stainless steel in capacities to 6000 gallons.

Central Chillers

Water-cooled and remote condenser multiple circuit units are available with scroll, screw or discus compressors. The wide range of available models assures that you get the unit that's right for the application. All come standard with NEMA 4 control panels and Allen-Bradley® PLCs with 3-year warranty. Many sizes in stock for immediate delivery.



Temperature Control Units



Fiberglass Cooling Towers



Pump/Reservoir Systems



Central Chillers