

# Accuchiller Portable Chillers SQ Series

Get years of reliable performance from a sensibly designed portable chiller. Accuchiller SQ Series portable chillers are dependably built to withstand harsh industrial environments. Chances are there is an economical Accuchiller unit that meets your exact needs – without costly upgrades or options. Something you would expect from the company that has been providing efficient process chilling solutions for all types of industrial applications for over 40 years.



**SQW05**  
5-ton water-cooled chiller



**SQA10**  
10-ton air-cooled chiller

## Built to Last

Every Accuchiller SQ Series portable chiller is built for years of dependable performance using high quality components like R407c refrigerant, scroll compressors, and stainless steel brazed plate evaporators. All units come with tools-free, removable, side access panels. Control panels use the best available technology yet are extremely easy to operate. SQ Series portable chillers are available in air-cooled, water-cooled or remote condenser models from 5 to 13 tons.

## Features

- Environmentally friendly and energy efficient R407C refrigerant
- Stainless steel brazed plate evaporator with flow and temperature safeties to prevent freezing
- Reliable and energy efficient scroll compressors
- Compressor and pump starters are mounted in control panel and wired to motor
- Internal insulated large capacity polyethylene reservoir
- Wetted materials in the process water circuit, including a stainless steel pump, are 100% nonferrous to resist corrosion
- Encapsulated refrigeration safety switches allow for replacement without refrigerant evacuation; no capillary tubes mean less chance for refrigerant leaks
- Hot gas bypass provides accurate capacity control and extends compressor life
- All water sensing devices terminate in an easily accessible sensor block
- Convenient access to interior components through tools-free, removable, recessed side panels with lockable latches
- Powder coat cabinet finish is durable and hides dirt and fingerprints

### Air-Cooled Units Only

- High-efficiency fans discharge air through the top of unit
- Generously sized copper tube/aluminum finned air-cooled condensers are designed for industrial environments
- Condenser fan starters mounted in control panel and wired to motor
- Inlet air filter cleans easily and protects condenser coils for maximum efficiency

### Water-Cooled Units Only

- Tube and tube condensers are designed for industrial environments
- Water regulating valve keeps refrigerant pressure constant

**All the control you need – without costly options or upgrades.  
Powerful control comes standard.**

### Easy to Operate Controls

All SQ Series portable chillers come with powerful microprocessor controls. The control panel is large, user-friendly, 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 entire panel is easy to access, view and operate without cryptic codes or confusing instruction manuals.



The AccuChiller SQ Series portable chillers come standard with the industry's best warranties:

- 18 months on parts
- 12 months on labor

Five year warranty on the controller and interface with lifetime exchange price of \$175.

Count on Thermal Care to be your one source for a complete line of dependable process cooling equipment. From system design through equipment start-up, to exceptional service and repair parts – Thermal Care does it all.

### Features

- Set point and process supply temperature displays
- Unit alarms easily reset on control panel
- Password protected operational parameters
- Anti-cycle 2.5 minute timer prevents short-cycling of compressor
- PID control program provides  $\pm 1^\circ\text{F}$  accuracy
- Temperature readout easily switched from  $^\circ\text{F}$  to  $^\circ\text{C}$
- Thirty minute deviation alarm timer delay to prevent nuisance alarms during start-up
- Temperature deviation warnings provide an adjustable deviation set point to indicate abnormal operation of chiller or process equipment without shutting down the chiller
- Temperature deviation alarms provide critical condition shut down of the chiller to protect against equipment damage

- High and low supply temperature deviation warnings and alarms
- Loss of flow alarm
- Freezestat alarm
- Low oil pressure alarm
- Pump motor overload
- Refrigeration high pressure and low pressure alarms
- Supply and return temperature sensor fault alarms

### Options

- Hand held remote control operator panel
- Audible alarm horn
- "From process" temperature readout
- Remote alarm contacts
- Remote on/off contacts
- SPI Communications
- Automatic water make-up



**For additional specifications and system information,  
please visit us on the web at [www.thermalcare.com](http://www.thermalcare.com)**

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In addition to a lightweight aluminum condenser and nonferrous construction, this typical air-cooled SQ Series unit comes with tools-free, removable side access panels that make it easy to get to interior components.