

Custom Solutions for your Process Needs



Brewery Chillers



Built by



You don't produce ordinary beer, so why settle for an off-the-shelf chiller?



Why Drake?

Drake utilizes over 30 years of heavy duty process cooling experience to produce the right solution for brewers who demand as much from their equipment as they do their brew. Other companies produce a hodgepodge of brewing equipment while Drake's focus is only the chiller. Drake engineers assure that the correct refrigeration technology is used for your one of a kind application. An off-the-shelf chiller from one of the big manufacturers is designed for seasonal comfort cooling, not the rugged year round requirements of today's breweries. Let Drake provide the right solution for your brewing needs.

What is Special about a Brewing Chiller?

Temperature & Temperature Control:

Brewery chillers require lower temperatures and more accurate temperature controls than a standard comfort cooling chiller. Drake brewery

chillers come with two loop recirculation tanks. These stainless steel tanks provide a consistent glycol temperature under varying conditions. This means a more controlled crash and more consistent process.

Year Round Processing:

Most comfort cooling chillers are not designed to run in colder weather. Drake provides a variety of low temperature options including the ability to run in ambient temperatures down to -40°F.

Capacity Control:

Most chillers have two levels of capacity, full on and full off. If your chiller can't modulate the capacity, the chiller will start and stop frequently. This short cycling will lead to short compressor life. Drake brewery chillers have a number of available capacity controls protecting you from short cycling.

Brewery Chillers



Our Product Lines:

- **Fractional:** Air-Cooled 1/4 to 1hp
- **Value Line:** Air-Cooled 1 to 10hp
- **Scroll:** Air & Water-Cooled 1 to 60hp
- **Tandem Scroll:** Air & Water-Cooled 28 to 120hp
- **Semi-Hermetic:** Air & Water-Cooled 1 to 100hp
- **Screw:** Air & Water-Cooled 80 to 200hp
- **Remote Condenser Systems**
- **Tank & Pump Packages** (30-1,500 gallons, polyethylene or stainless steel tanks)

Partial or Full Redundancy

- Full capacity redundancy
- Full electrical isolation
- Dual or multi-circuit units
- Auto-changeover redundant pumps

Heat Exchanger and Tank

- On-board or remote tank & pump packages
- Glycol level sight glass
- Tank low-level indicator with alarm
- VFD (Variable Frequency Drive) available for pumps
- Custom tank fittings

Compressor Modulation for Low Load Conditions

- Digital scroll capacity able to modulate down to 25%
- Step unloading for all screw compressors
- Cylinder unloading for semi-hermetic compressors and hot gas bypass for multiple compressor systems

Controls

- Custom programming available to control most brewery functions including fermenter crashing
- MCS microcontroller upgrade available for tighter process control
- Chiller Guard available to email or text in case of alarm

High-Efficiency Options

- EC condenser fan motors for electric efficiency, higher energy savings and more stable temperatures
- EEV's (electronic expansion valves)
- Glycol Economizer for free-cooling ability
- Floating Head Pressure for extremely efficient chillers in anything below 95°F ambient
- Heat reclaim options for hot water loop or HLT
- VFD (Variable Frequency Drive) on pumps for low energy consumption

Other Drake Capabilities/Options

- Digital flow meters
- Circuit breakers for electrical components
- Low ambient protection
- Long-draw system add-on
- Phase monitor
- Fused disconnect
- Plate & frame brewery speciality heat exchanger
- And more.....



www.drakechillers.com

BREWERY CHILLERS



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About Drake Refrigeration

At Drake Refrigeration, we strive to provide high quality, engineered cooling solutions to a variety of end markets. Our many years of experience gives us a large library of tools and configurations designed to solve even the most complex cooling needs. So whether you are crafting a private label brew or launching a payload into space, Drake has the solution.

Drake offers a complete line of compressor power ranging from 1/4 hp to 200 hp in single circuit, dual circuit and dual circuit tandem arrangements. Our condensers are available in air cooled and water cooled and can be configured in a split arrangement. We use brazed plate or barrel style evaporators and offer stainless steel pumps, stainless steel tanks and brazed copper plumbing. Our electronic controls are available from simple, low cost, and durable to fully programmable, high end with touch screens and remote access.

Our systems can be built to handle varying loads, multiple pieces of equipment, narrow temperature bands, near freezing water, low exiting temperatures, low ambient conditions, high ambient, high return temperatures, and corrosive environments.



Where To Find Drake

Drake is sold through most refrigeration wholesalers, so you are working with suppliers and contractors you know and trust. With representatives throughout the United States, you can get the support you need for all stages of the process. Our engineers are available to discuss your cooling needs directly. Our team will support the process from quoting to start-up and we also offer technical support.

Bring us your cooling needs and let us engineer a solution for you!



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