

Custom Solutions for your Process Needs



Industrial Chillers



Built by  **DRAKE**
REFRIGERATION, INC.

In the heat of production, Drake Chillers keep your equipment cool



Why Drake?

Drake offers over 30 years of experience designing and building process chillers for your industrial applications. Our industrial grade process chillers come as a complete packaged unit so they can be simply dropped in place and turned on. The internal tank helps maintain a cold water temperature to $\pm 1^{\circ}\text{F}$ to prevent spikes in temperatures no matter how many of your processes are operating. Drake has experience in designing process chiller systems whether you are cooling bio-fuels or multiple pieces of equipment. Here at Drake we understand that you rely on us to keep your industrial processes chilled so we build reliable solutions for each and every cooling application. Drake chillers take the heat so you don't have to.

What is Special about an Industrial Chiller?

Equipment Chiller:

Through our experience working with industrial processes we understand the importance of tight temperature control. Drake provides cost effective solutions through the use of variable

frequency drives (VFDs) and recirculation tanks. Drake offer systems that are expandable for future growth and can support 1-100+ pieces of equipment.

Process Chiller:

Drake offers a variety of redundancy options to ensure that your processes are always chilled when you need it. From multiple refrigeration circuits with standard lead-lag control to auto-changeover pumps, our units are designed to ensure that your process is continuously running. It is imperative that the chiller is able to meet the changing demand of your application. Digital scrolls, cylinder unloading, and hot gas bypass are just some of the capacity control options that we offer.

Oil Chiller:

The industrial environment is harsh on machine tools, which makes keeping oil cool imperative. An overheating machine tool can lead to premature failure and long periods of downtime. Drake's oil chillers are specifically designed for industrial machine tools to increase efficiency, reliability and lifetime.



Our Product Lines:

- **Scroll:** Air & Water-Cooled 2 to 34hp
- **Semi-Hermetic:** Air & Water-Cooled 25 to 100hp
- **Screw:** 38 to 214hp
- **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
- Fluid level sight glass
- Tank low-level indicator with alarm
- VFD (Variable Frequency Drive) available for pumps
- Custom tank fittings

Low-Temp Design

- Evaporators and heat exchangers sized for specific fluid for each application
- Compressor cooling - Liquid injection and compressor fans
- Oil management for compressor protection
- Electronic expansion valves (EEVs) for tight superheat control
- 1" insulation for heat gain resistance

- Designs for fluid temperature pull down from higher temperatures
- Pump selection specific to fluid type

Controls

- Custom programming available for particular application control
- MCS microcontroller upgrade available for tighter process control and remote login access
- Central control for multiple units
- On-board or remote touchscreen options
- Email and text alerts available in case of alarm

Energy-Efficiency Options

- EC condenser fan motors for energy savings and more stable refrigerant temperatures
- Floating Head Pressure for extremely efficient chillers in anything below 95°F ambient
- Heat reclaim options for hot water loop
- VFD (Variable Frequency Drive) on pumps for minimal required energy consumption

Other Drake Capabilities/Options

- Digital flow meters
- Circuit breakers for electrical components
- Low ambient protection
- Phase monitor
- Fused disconnect
- Corrosion resistance options
- And more.....





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 ¼ 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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