

P-Series Chillers - Specifications

Component	Standard Specifications	Optional Specifications
Model Range	13 sizes from 1.5 ton through 30 tons. Single pump system with insulated epoxy coated steel tank.	<ul style="list-style-type: none"> Special tonnage. Modular designs through 240 tons Special temperature range and pressure delivery specifications
Cabinet	Models 1.5 through 5 ton have all aluminum, reinforced metal cabinet and frame of white epoxy painted aluminum. 7.5 tons and above have welded steel frame and white epoxy painted aluminum panels. Easy access hardware.	<ul style="list-style-type: none"> Stainless steel cabinet panels Epoxy finishes or casters Custom Colors Engineered frames to accommodate special size restrictions
Controls and Safeties	Control circuit on/off, compressor anti short-cycling delay, water flow switch, fan cycling, manual reset high and low refrigerant pressure, water regulating valve on water cooled models.	<ul style="list-style-type: none"> Microprocessor with LED user interface Dual pump lead/lag controls Flooded head pressure controls Remote web-based diagnostics Automatic city-water switch over
Electrical	Models can be specified for 208-230/50 or 60 Hz, single phase. Three phase service is available for 460/60/3, 380/50/3 or 575/60/3 operation. 24 volt control circuit.	<ul style="list-style-type: none"> Fused or non-fused disconnect Single phase for large models Special voltages
Indicators	Water temperature, pump pressure, low tank, high temp and no flow alarms. Gauges are liquid filled.	<ul style="list-style-type: none"> Refrigeration pressure gauges Remote panel with flow, temp, and pressures indicators
Refrigeration	Single R-22 circuit includes filter dryer, receivers with 90% capacity, liquid line solenoid valves and service valves.	<ul style="list-style-type: none"> Alternate refrigerants Redundant circuits with staged capacity Hot gas bypass capacity control
Air Cooled Condensers	Enhanced seamless copper tubing. Mechanically bonded aluminum fins. Integral subcooling. Overload protected TEAO fan motors. Aluminum fans.	<ul style="list-style-type: none"> Coated or copper fins for corrosion resistance High ambient designs High altitude designs
Water Cooled Condensers	Coaxial type through 10 tons. Cleanable shell & tube heat exchanger on larger models.	<ul style="list-style-type: none"> Special construction materials Shell and tube on smaller models 3-way water regulating valve
Evaporators	Coaxial type through 5 tons. Direct expansion shell & tube on larger models. Closed cell insulation.	<ul style="list-style-type: none"> Special construction materials Shell & tube (small models) Dual circuit evaporators
Compressors	Hermetic scroll or reciprocating types. Internal overload protection. Crankcase heaters and service valves.	<ul style="list-style-type: none"> Tandem scroll sets Multiple circuit designs Lead/lag operation
Reservoirs	Generously sized, vented epoxy coated steel tank with sight glass and low water level controls.	<ul style="list-style-type: none"> Special tank sizes Remote pump/tank designs
Pumps	Cast iron or stainless steel, high head pressure, end suction centrifugal designs	<ul style="list-style-type: none"> Dual lead/lag configurations Higher pressure designs Stainless steel construction
Piping	Refrigerant piping is rigid copper with service valves. Insulated suction lines. Water circuit is insulated seamless heavy grade copper.	<ul style="list-style-type: none"> Alternative materials for special fluids and corrosion resistance
Warranty	One year parts, five year limited compressor warranty	<ul style="list-style-type: none"> Extended parts & labor warranty Guaranteed emergency response Factory start-up and maintenance

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Represented By:

200 Park, Inc. dba ArctiChill
 200 Park Avenue
 Newberry, SC 29108
 Phone: (803) 321-1891
 Fax: (803) 321-1898
TOLL FREE - 1-800-849-7778
www.arctichill.com



When precision counts, **count on us.**



We were cool long before it was a trend.

Since the early 1980's, ArctiChill has been producing mission-critical, precision water cooled and air cooled refrigeration systems for process and medical applications. Our close work with equipment OEM's has evolved into a suite of products and accessories that are guaranteed to meet the flow, pressure and precision delivery requirements for accurate, dependable critical cooling. With unmatched experience in both the refrigeration and site installation aspects of process applications, we are uniquely qualified to provide a complete solution, matching OEM requirements and site, piping or ambient variables to assure the right equipment and long term reliability that recognizes your productivity and bottom line.

Unparalleled Commitment to Service

Ultimately, our reputation depends on your operational success. By employing the highest quality component selection, assembled and tested by highly skilled technicians, and supported by advanced microprocessor control systems, system redundancy, automated switch over schemes and our new web-based diagnostic and alerting system, there is simply no need for second-best - no better choice than ArctiChill. And when you do need us on site, our in-house and trained field service staff stands ready. Our dedication to long term success is sustained by the caliber of people we employ, the resources we provide for product development, advanced controls, and the realization of "customer first" attitudes. With the combined strength of our sister companies, ArctiChill is equipped to respond to virtually any process cooling need.



When cool is critical, **so is design.**

Never lose your cool.

When critical process cooling equipment is deployed, downtime due to equipment failure, or poor delivery of process liquids within the temperature and pressures required can be disastrous. Even unplanned circumstances such as inconsistent power, improper maintenance, failure due to normal wear and tear, or improper usage can result in unnecessary downtime. To ensure that conditions remain within your parameters, ArctiChill has developed a number of practical methods to reduce downtime.

- **Redundant refrigeration circuits & controls**
- **Automatic back flushing filtration systems**
- **Dual Pumping with automatic lead/lag pump selection**
- **Modem or Wireless Remote Diagnostics**
- **Advanced Alerting and Notification System with user definable alert thresholds**



A Unique Resource

Nothing we do is "standard". Virtually every critical duty process application is an opportunity to showcase our engineering excellence, innovation and wide capacity. Central and portable chiller plants are available from 1 to more than 3,000 tons.

Modular designs allowing you to add and remove capacity, indoor and outdoor designs with split-system options, remote tanks and pumping systems, filtration systems, evaporative cooling towers, closed-loop and "free-cooling" designs and turn-key installation are all within our range of existing capabilities.