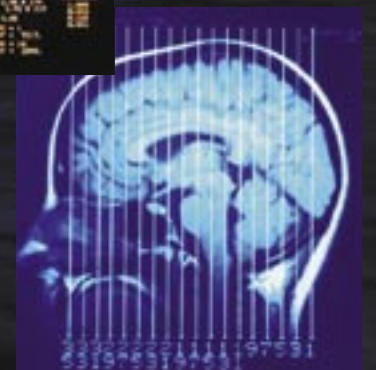
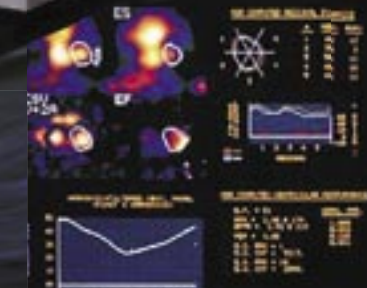
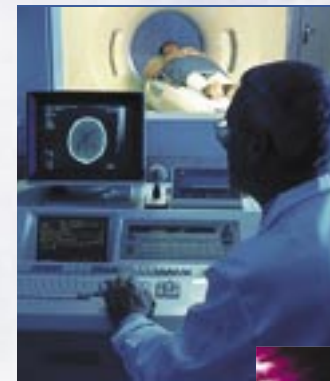


M-Series Chillers - Specifications

Component	Standard Specifications	Optional Specifications
Cabinet	Models 2 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 Custom Colors Engineered frames to accommodate special size restrictions
Controls and Safeties	Microprocessor controller with 4x20 LED interface for all chiller operations and alarm status. Includes internal logging for 100 alarms. Remote alarm indicator panel. Power supply phase monitor.	<ul style="list-style-type: none"> Dual pump lead/lag controls Flooded head pressure controls for low ambient conditions to -40 F 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 and refrigerant pressure, low tank, high temp and no flow alarms. Remote start/stop and dry contact for general alarm notification.	<ul style="list-style-type: none"> Remote flow rate indication using Micro-processor controls Remote panel with flow, temp, and pressures indicators
Refrigeration	Single R-22 circuit includes filter dryer, receivers with 90% capacity, hot gas bypass capacity control, and service valves.	<ul style="list-style-type: none"> Alternate refrigerants Redundant circuits with staged 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	High volume, insulated stainless steel with vacuum vents and pressure relief valves.	<ul style="list-style-type: none"> Special tank sizes Remote pump/tank designs
Pumps	All stainless steel, high head pressure, end suction centrifugal designs.	<ul style="list-style-type: none"> Dual lead/lag configurations Higher pressure designs All non-ferrous liquid path
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

Mission Critical Chilled Water Systems Engineered to Exacting Standards

- Magnetic Resonance Imaging Systems
- CT Scanners
- Oncology Linear Accelerators
- Blood Cooling Systems
- Precise Laboratory Applications
- Lasers and Electron Microscopes



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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 medical applications. Our close work with all of the major medical equipment OEM's such as General Electric, Siemens, Varian, Hitachi, Marconi, and Elekta 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 medical 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 patient loads and bottom line.

Unparalleled Commitment to Service

When a diagnostic or treatment center is handling a high patient load, even small lapses of operations due to equipment failures is simply unacceptable and unnecessary. By employing the highest quality component selection, assembled and tested by highly skilled technicians, and bolstered 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.



Components, controls and know-how are combined to provide high chilled water delivery consistency—critical for advanced imaging technologies.

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 methods to reduce downtime.

- **Redundancy in refrigeration circuits**
- **Redundant controls with automatic switch over**
- **Dual Pumping with automatic lead/lag pump selection**
- **Automatic City-Water Switch over Panels**
- **Remote Control Room Indicator Panels**
- **Modem or Wireless Remote Diagnostics**
- **Advanced eMail based Alerting System**



Automatic city water switchover panel includes optional heat exchanger to isolate process liquid/glycol from drain.



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, including installation and startup.

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.