PROCESS COOLING®

Efficient Heat Transfer by Design

ENGINEERING, MANUFACTURING, INSTALLING & SERVICING PROCESS WATER SYSTEMS **SINCE 1963**

INDUSTRIAL COOLING. ENGINEERED TO PERFORM.

Every system we deliver is engineered in-house, then manufactured, installed and serviced by the same team, which gives you a single point of accountability from the first engineering review through the full service life of the equipment.









75,000 ft²
MANUFACTURING FACILITY

70+ employees
AVERAGING 20+ YEARS

CAD & 3D
IN-HOUSE DESIGN & MODELING

UL 508A
IN-HOUSE PANEL SHOP

ABOUT US

A SINGLE SOURCE FOR PROCESS WATER SYSTEMS

Process Cooling Systems has specialized in the engineering and design of process water systems and the management of system installations since 1963. Our focus on energy efficiency, performance and reliability has made us an industry leader in delivering turnkey cooling solutions.

Our team continues to grow, now with more than 70 employees averaging over 20 years of experience, working from two locations that provide full mechanical and electrical design capability, in-house CAD and 3D modeling, and the engineering depth to carry a system from concept through validation. Our manufacturing facility features certified structural welders, licensed piping crews and an in-house UL-certified electrical panel shop. That combination of skill and resources ensures consistent quality on every project.



WHY CHOOSE US

FOUR REASONS MANUFACTURERS STAY WITH US

CUSTOM DESIGN & ENGINEERING

All systems are engineered and built for the individual customer by our own mechanical and electrical designers, rather than fitted with off-the-shelf standard equipment. This approach allows a lower initial cost to be realized and an increase in existing system performance to be achieved without the full cost of new equipment.

ENERGY EFFICIENT & WATER CONSERVATION

With growing concerns regarding energy costs, manufacturers are continuously looking for ways to reduce power consumption. We have the means and the experience to design in energy saving and water conservation measures on new systems and on retrofits of existing ones.

UNPARALLELED MANUFACTURING QUALITY

A high level of quality control is the product of our in-house manufacturing, which combines certified structural welders, pipe specialists and a UL-certified electrical panel shop. All components are designed and built with reliability, ease of service and long term operation in mind.

EXPERT INSTALLATION & SERVICE

Our crews deliver precise rigging and efficient installation for faster project completion, reduced downtime and long-term reliability. New, retrofit and expanded systems all benefit from installation personnel who are experienced with water systems and their operation.

WHAT SETS US APART

You will have direct access to your project's design engineer, which ensures fast and accurate answers to your questions along with seamless communication throughout the lifecycle of your system.

OUR SOLUTIONS

CUSTOM COOLING SYSTEMS ENGINEERED FOR PRECISION AND PERFORMANCE

We solve complex thermal challenges across industrial environments, clean rooms and mission-critical manufacturing processes. Every solution starts with our own mechanical and electrical engineers, while qualified, licensed and insured piping crews at each location bring years of expertise to a wide variety of piping systems.



CUSTOM ENGINEERED COOLING SYSTEMS

Designed to match your specific process needs, from modular chillers through complete skid assemblies, these systems optimize temperature control, energy use, water conservation and uptime.

- Central and modular chiller systems
- Expandable cooling tower systems
- Free cooling economizer systems
- High volume temperature control skids



AIR ROTATION SYSTEMS

Designed, installed and operated for large industrial spaces, these systems deliver uniform temperature control and efficient air movement that reduces energy costs across the facility.

- Temperature range of 32°F to 250°F
- Up to 150,000 CFM per unit
- Up to 60 MBH cooling
- Up to 1,000 MBH heating



CLEAN ROOM & INDUSTRIAL CONDITIONING

These systems manage particulate, temperature and humidity control for ISO compliance, while delivering efficient comfort across production floors and facility-wide operations.

- HEPA filtration for zoned air control
- Air handlers for clean room class
- Smart climate systems
- Humidity control for material handling



SPACE CONDITIONING FOR PRODUCTION

- High-capacity cooling for demanding spaces
- Humidity control for sensitive materials
- Zoned temperature management
- Flexible retrofits for legacy systems
- Integrated performance monitoring



HEAT RECOVERY & WATER CONSERVATION

- Heat recovery integration
- Utility incentive and rebate programs
- Energy-efficient system architecture
- Reduced chemical treatment dependency
- Dry-air economizer for free cooling



TEMPORARY COOLING SOLUTIONS

- Portable chillers from 5 to 60 tons
- Pump systems up to 1,000 GPM
- Complete temporary process systems
- Process filtration and flushing
- Fleet ready for immediate deployment



HIGH EFFICIENCY MEDIA FILTERS

- Manual or automatic backwash
- UL-listed control panels
- Bronze pump and basket strainer
- Rugged industrial construction
- Fully assembled for quick installation

EQUIPMENT WE DESIGN, MANUFACTURE AND SUPPORT

ADIABATIC COOLERS

Dry-air coolers with adiabatic assist for free cooling opportunities

CENTRAL & PORTABLE CHILLERS

Portable units from 5 to 60 tons, central systems from 15-ton modules upward

COOLING TOWERS

25 to 1,471 nominal tons per unit with a 15-year exterior shell warranty

PUMP TANKS & SKIDS

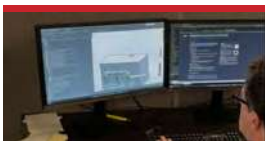
Fully welded stainless steel tanks on structural steel pump bases

MEDIA FILTERS

Sand filtration with manual or automatic backwash control

OUR CAPABILITIES

COMPLETE IN-HOUSE EXPERTISE, FROM ENGINEERING AND DESIGN THROUGH INSTALLATION AND VALIDATION



SYSTEM DESIGN & ENGINEERING

- Mechanical and electrical design with in-house CAD and 3D modeling
- Pre-skidded and pre-wired tower and chilled water systems
- Modular mechanical rooms and machine-side bridle loop skids



CONTROL SYSTEM INTEGRATION

- UL 508A certified industrial panels
- PLCs, VFDs and remote monitoring
- OPC UA interfaces including EUROMAP



MANUFACTURING

- Fully welded stainless steel tank construction
- Premium-efficient close-coupled pumps
- Leak tested and finished for industrial duty



PROJECT MANAGEMENT & INSTALLATION

- Preconstruction planning and construction management
- Layout alignment and utility routing
- Downtime scheduling around production



SERVICE & SUPPORT

- Start-up and commissioning
- Scheduled preventative maintenance
- Direct access to your design engineer

INDUSTRIES SERVED

EACH INDUSTRY HAS UNIQUE COOLING DEMANDS, AND WE BUILD FOR THEM

Plastics & Injection Molding
Cycle consistency, mold integrity and energy savings that scale with production.

Food & Beverage Processing
Safe, hygienic environments with temperature precision and process stability.

Chemical & Petrochemical
Robust solutions for corrosive atmospheres and volatile material handling.

Heat Treatment
Consistent quench and process temperatures that protect metallurgical results and equipment uptime.

Wire & Cable
Consistent temperature control for extrusion and coating lines, supporting product quality.

Medical Device Manufacturing
Critical control for Class I–III production, including clean rooms and tight tolerances.

Pharmaceutical & Clean Room
Support for sterile zones and pharma-grade protocols with scalable environmental systems.

Battery & Electronics
Cooling that prevents thermal drift and protects sensitive components.

Data Centers
Reliable, precise cooling that protects uptime for mission-critical IT infrastructure.

Oil & Gas Refinery
Rugged cooling built for demanding, corrosive process environments.

STATE LICENSES

Alabama, Arizona, Arkansas, California, Connecticut, Florida, Louisiana, Massachusetts, Michigan, Mississippi, Oklahoma, South Carolina, Tennessee, Utah and Virginia, with more to come.

WORK COMPLETED IN NORTH AMERICA & WORLDWIDE

United States, Canada, Mexico, Poland, Ireland, Fiji, Brazil, Ecuador, El Salvador, Colombia, Trinidad and Tobago, Uruguay and Venezuela.

SERVICES & SUPPORT

SUPPORT YOU CAN RELY ON

Start-Up & Commissioning
Ensuring your system is installed and operating to specification from day one.

Scheduled Preventative Maintenance
Proactive care that minimizes downtime and extends equipment life.

Ongoing Technical Support
Responsive assistance from a fully staffed service department whenever you need it.

Controls Integration & Upgrades
Replacing outdated controls for smoother, more reliable system operation.

Service For All Systems
Our technicians support equipment from other manufacturers with the same precision and care.

Installation & Plant Piping
Process water, compressed air, rigging, structural steel, insulation and commissioning.

PROCESS COOLING

Efficient Heat Transfer by Design

MAIN OFFICE

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Leominster, MA 01453

SOUTHEAST DIVISION

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