PROCESS COOLING

Efficient Heat Transfer by Design

ENGINEERING PROCESS WATER SYSTEMS SINCE 1963

INDUSTRIAL COOLING. ENGINEERED TO PERFORM.

Every system is engineered in house, then manufactured, installed and serviced by the same team, which gives you one point of accountability for the life of the equipment.



1963	75,000 FT^2	70+	20+	CAD & 3D
YEAR FOUNDED	MANUFACTURING FACILITY	EMPLOYEES	YEARS AVERAGE EXPERIENCE	IN-HOUSE DESIGN & MODELING

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 of more than 70 employees averages 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 depth to carry a system from concept through validation.



WHY CHOOSE US

FOUR REASONS MANUFACTURERS STAY WITH US

CUSTOM DESIGN & ENGINEERING

Systems are engineered and built for each customer by our own mechanical and electrical designers, lowering initial cost and improving performance.

ENERGY EFFICIENT & WATER SAVING

We design energy-saving and water-conservation measures into new systems and retrofits, helping manufacturers reduce power consumption.

UNPARALLELED MANUFACTURING QUALITY

Our in-house manufacturing combines certified structural welders, pipe specialists and a UL-certified electrical panel shop.

EXPERT INSTALLATION & MAINTENANCE

Our crews deliver precise rigging and efficient installation for faster completion, reduced downtime and long-term reliability.

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.

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

Food & beverage processing
Safe, hygienic environments with temperature precision and process stability.

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

Pharmaceutical & clean room
Support for sterile zones and pharma-grade rotocols with scalable environmental systems.

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

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

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

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

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

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, supported by licensed and insured piping crews at each location.

CUSTOM ENGINEERED COOLING SYSTEMS

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

AIR ROTATION SYSTEMS

- 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

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

CLEAN ROOM & INDUSTRIAL CONDITIONING

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

HEAT RECOVERY, ENERGY EFFICIENCY & WATER CONSERVATION

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

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 configurations
- UL-listed control panels with automation
- Bronze pump and basket strainer
- Rugged industrial construction
- Fully assembled for quick installation

EQUIPMENT WE DESIGN, BUILD 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

SYSTEM DESIGN & ENGINEERING
In-house mechanical and electrical design with CAD and 3D modeling.

CONTROL SYSTEM INTEGRATION
UL 508A panels with PLCs and remote monitoring.

MANUFACTURING
Fully welded stainless tanks and close-coupled pumps, leak tested.

PROJECT MANAGEMENT & INSTALLATION
Preconstruction planning and downtime scheduling around production.

SERVICE & SUPPORT
Start-up, commissioning and direct access to your design engineer.



SERVICES & SUPPORT YOU CAN RELY ON

Start-up & commissioning
Installed and operating to specification from day one.

Controls integration & upgrades
Outdated controls replaced for reliable operation.

Scheduled preventative maintenance
Proactive care that extends equipment life.

Service for all systems
We service equipment from other manufacturers too.

Ongoing technical support
Responsive help from a fully staffed service department.

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

Efficient Heat Transfer by Design

MAIN OFFICE

800 Research Drive
Leominster, MA 01453

SOUTHEAST DIVISION

105 Lindsey Park Drive
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CONTACT

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Installations: 1-800-696-2665 x215
Engineering: 1-800-696-2665 x212

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UL 508A INDUSTRIAL CONTROL PANEL FABRICATOR

LICENSED IN Alabama, Arizona, Arkansas, California, Connecticut, Florida, Louisiana, Massachusetts, Michigan, Mississippi, Oklahoma, South Carolina, Tennessee, Utah and Virginia, with more to come. **WORK COMPLETED IN** the United States, Canada, Mexico, Poland, Ireland, Fiji, Brazil, Ecuador, El Salvador, Colombia, Trinidad and Tobago, Uruguay and Venezuela.