PROCESS COOLING

ENGINEERING PROCESS WATER SYSTEMS SINCE 1963

MODULAR MECHANICAL SYSTEMS



1,100+
CUBIC FEET OF CONDITIONED SPACE

3
SYSTEM CONFIGURATIONS

YEAR-ROUND
ALL-WEATHER OPERATION

The Modular Mechanical System is an outdoor-ready mechanical room that frees indoor floor space for production by relocating process cooling equipment outside the building.
Designed and built by Process Cooling Systems, each unit gives operators climate-controlled, ground-level access to the equipment they service most often. The structure is built from high-strength corrugated steel, ties in to existing piping and infrastructure, and is engineered to operate year-round in all weather.

BUILD UP, NOT OUT

Modular Mechanical Systems can be built up vertically to make use of overhead space, and the heavy-duty structural frame allows cooling towers and secondary modules to be mounted directly on the roof.

CONFIGURATION OPTIONS

- Available for cooling tower systems, dry air cooler systems, or chilled water systems.
- Designed for year-round, reliable thermal process cooling across a broad range of applications.
- Eliminates indoor space constraints.

AVAILABLE OPTIONS

- Actuator valves prevent overcooling during periods of low heat load or low ambient temperature operation.
- Access ladders with OSHA cages and galvanized handrails.
- FRP catwalks offer a high strength-to-weight ratio and will never rust, rot, or corrode when exposed to saltwater, wastewater, cold temperatures, heat, or humidity.
- High temperature and low pressure alarms provide process visibility.
- Chilled water system and cooling water system options can be integrated into the system, meeting every process need.

APPLICATIONS

Injection Molding • Extrusion • Thermal Processing for Metals & Alloys • Building Materials Manufacturing • Coating Materials Manufacturing

STANDARD FEATURES

- Ventilation and conditioning provide safe electrical thermal management, keeping equipment within operating limits year-round.
- The structure features galvanized steel lock rods, two points of entry, and a two-inch rubber gasket on the double doors.
- Interior lighting comes standard on every unit, and systems provide more than 1,100 cubic feet of conditioned space.
- Fully insulated roof, walls, and underside economically resist freezing conditions and humid summers while maintaining the internal stability that extends mechanical equipment life.
- Chilled water configurations include half-inch closed-cell foam insulation on all tanks, check valves, pump volutes, and pump trim.
  NEMA-4, UL-approved electrical cabinet is fully rated and safe for outdoor use.
- Pump tanks include city water makeup, drain, and overflow connections.
  High-strength corrugated steel construction allows the system to tie in to existing piping and infrastructure.



RELATED SYSTEMS

Modular Mechanical Systems house PCS cooling tower systems, dry air cooler systems, and chilled water systems.

For capacity, pump, and electrical data, see the Cooling Tower Systems and Chilled Water Pump Tank specification sheets.

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