



Design is the Difference<sup>SM</sup>

# Central Chillers and Pump Tanks



*Setting the standard for  
high performance and superior  
quality thermal fluid solutions  
for over 55 years.*



# Central Chiller Systems

Leave it to Mokon to offer Central Chiller systems with all the benefits you're looking for. Central Chillers are available in 30 to 120 Ton cooling capacities, air- or water-cooled condensing, and scroll or semi-hermetic discus compressors. Our dependable, energy-efficient systems are your source for continuous centralized process cooling down to 20°F (-7°C).

## Accurate, Reliable and Green Friendly

- Single or dual circuit configurations with scroll compressors
- Automatic compressor staging for capacity control
- Electronic hot gas bypass for partial load conditions
- Brazed plate evaporators
- R-407C, R-134A and other green friendly refrigerants

## Maximum Safety and Reliability

- Flow switch to protect from process blockage and no flow condition
- NEMA 12 rated electrical enclosure
- Low and high refrigerant pressure safety devices
- Main power disconnect
- General fault and individual system alarms including freezestat, compressor fault and no flow condition
- Emergency stop allows quick emergency shutdown
- Audible alarm for fast notification of problems with reset
- NFPA 79 electrical safety standards including branch fusing
- UL 508A approved electrical panel

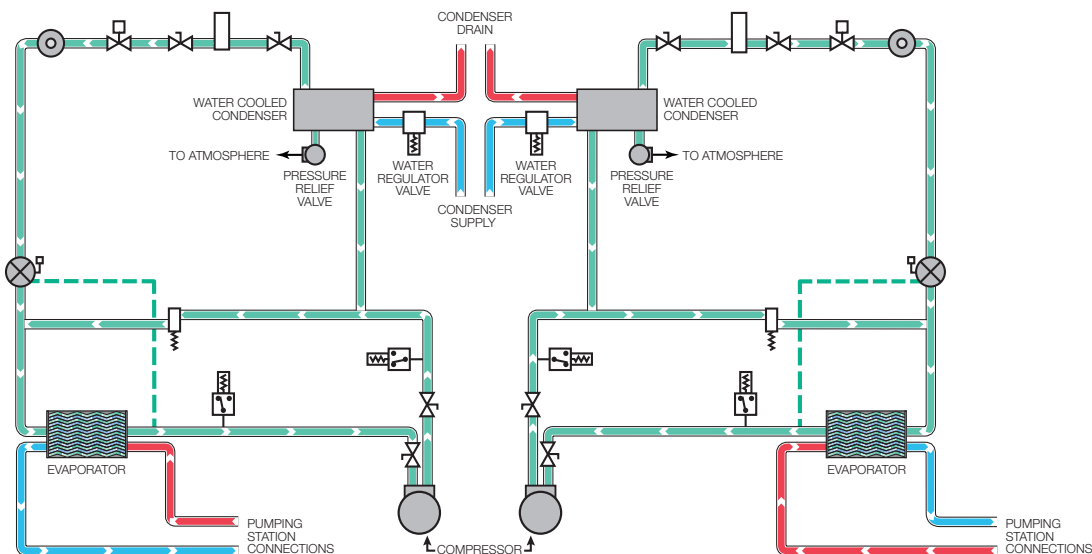
## Low Maintenance

- Refrigeration shut-off valve isolates refrigerant for regular service
- Refrigeration liquid line solenoid valves keep refrigerant from backing up into compressor during shutdown
- Digital freezestat protection provides safety for low fluid temperatures
- Pressure transducers eliminate mechanical gauges and switches

## Optional Items

- *Low temperature ambient air kit for operating below 25°F (-4°C) outdoor ambient air temperatures*
- *Automatic fill, low water level (reservoir) indication and system shutdown*
- *Evaporator strainers, manifold and isolation valves*
- *Water-cooled condenser, strainers, manifold and isolation valves*

## Dual Circuit Water Cooled



# Pump Tank Systems

Mokon's line of Pump Tanks reinforces our reputation as a manufacturer of quality and durable thermal fluid systems. Our engineers design each Pump Tank system to meet your specifications, and each system can be easily integrated with a central process water chiller, cooling tower or your existing water system.

## Efficient Design

- Single or multiple pump configurations
- High-efficiency, close-coupled, nonoverloading centrifugal pumps for optimal flow and pressure
- Pump suction and discharge piping trim, eliminating excessive pressure drop
- Tanks provided with insulation

## Maximum Safety and Reliability

- Microprocessor or PLC controllers
- NEMA 12 rated electrical enclosure
- Sight glass with safety rods
- Fill, overflow and dual drain connections
- Low pressure and low level safety shutoff switches
- Reinforced steel structure deck adds rigidity and increased safety
- NFPA 79 electrical safety standards including branch fusing
- UL 508A approved electrical panel

## Low Maintenance

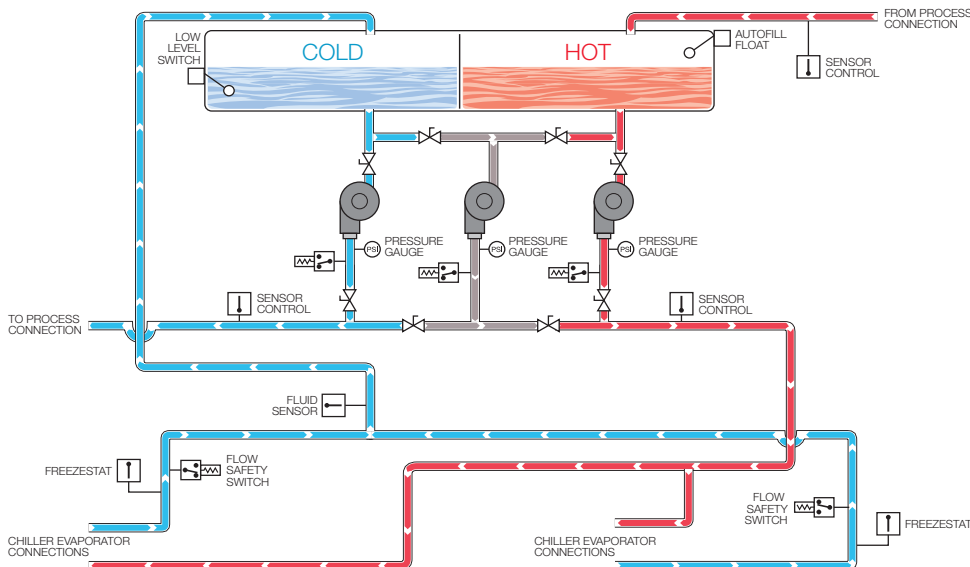
- Stainless steel or epoxy-coated steel tank construction
- Suction butterfly valve allows pump to be changed without draining the tank
- Multiple pump sets are equipped with suction manifolds for ease of installation
- Tank covers provided to prevent contamination and evaporation

## Optional Items

- NEMA 3, 4, 4X and 7 rated electrical enclosures and components
- Discharge check valves to prevent supply line from flow back
- Automatic fill and water make-up valves
- High temperature and low flow alarms
- Full-sized standby pump acts as backup to process and recirculation pumps
- Cooling tower control available for single point interface



## Central Chiller Pumping Station





# Additional Process Control Solutions from Mokon

## Portable Chiller Systems

- Process cooling requirements down to -10°F (-23°C)
- Available in ¼ Ton to 40 Ton cooling capacities
- Single and dual circuit configurations
- Combination heating and chilling systems from 5°F to 300°F (-15°C to 149°C)



## Cold Climate Coolers

- Closed loop system – no make-up water or expensive chemical additives
- Cooling capacities up to 195 Tons
- Environmentally friendly design reduces water and energy costs
- Weather-resistant construction



## Power and Process Control Panels

- UL and cUL 508A listed panel
- NEMA 1, 3, 4, 4X, 7, 12 and IEC electrical enclosures
- X and Z purge designs
- Explosion-resistant and wash down designs



## Custom Engineered Systems

- Designed and built to customer specifications
- Steel, stainless steel and other materials of construction
- Clean room or wash down designs
- NFPA 79 compliant: electrical safety standard for industrial machinery



## Customer Service You Can Count On

Backed by one of the most experienced customer service teams in the industry, Mokon offers full customer support so that you can have access to our expertise before, during and after the sale. Our service capabilities include:

- 24-hour customer support right over the phone
- Installation and start-up assistance available
- Customer training capabilities on all product lines
- Complete factory repair and refurbishment service on all Mokon systems
- Conversions, including reconditioning/remanufactured service from Mokon – system will be updated, tested and calibrated and leave Mokon with an extended warranty

## Mokon Makes It Easy

Let us show you why our design makes the difference when it comes to solving your needs for process temperature control. Contact Mokon today for more information on our complete product line.

- Visit our website – [www.mokon.com](http://www.mokon.com)
- Call us today at (716) 876-9951
- E-mail [sales@mokon.com](mailto:sales@mokon.com) or [custserv@mokon.com](mailto:custserv@mokon.com)

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