

Improve Productivity and Profits with Precise, Energy Efficient Control of Process Temperature

Conair's central cooling systems can put money back in your pocket by supplying precise process water temperature and pressure for your application. If you need more than 20 tons capacity to cool dies, molds, screws, barrels or machine hydraulics, a central system could be the solution.



Air or Water-Cooled Systems, From 20 to Over 1000 Tons



► Conserve energy and water

Replacing portable chillers with a central cooling system can cut energy costs by as much as a third. Recirculating cooling water through a tower-chiller system also reduces water and sewer bills. Optional pressure-controlled variable frequency drives (VFD's) provide optimal performance at reduced energy costs.

► Reduce scrap and production time

Precise temperature control at the mold, die, screw or barrel results in faster cycle times and less warping and shrinkage in the product.

► Increase manufacturing floor space

Central cooling systems free machine cell space taken by portable cooling equipment, and can save on expansion/construction costs.

Let Us Design the Most Effective, Efficient System for Your Application

LEGEND

	FIELD WIRING CONNECTION		END OF FACTORY ASSEMBLY		CHECK VALVE		BUTTERFLY VALVE		BALL VALVE		SOLENO VALVE		FLOAT VALVE		PRESSURE SWITCH
	LEVEL SWITCH		PRESSURE GAUGE		THERMOMETER		FLOW SWITCH		FLOW DIRECTION		AUTO AIR-VENT		FLOOR DRAIN		TRIPLE-DUTY VALVE
	VACUUM BREAKER		FLOW METER		QUICK CONNECT		10° THERMOCOUPLE		STRAINER		SEE DETAIL		THERMOCOUPLE		THERMOCOUPLE

PIPING FLOW DIAGRAM

NOTES:

- 1) ALL EQUIPMENT SUPPLIED BY THE CONAIR GROUP IS SHOWN COLORED GREEN.
- 2) FIELD PIPING, SUPPLIED BY OTHERS, IS SIZED FOR SCH40 PVC UNLESS OTHERWISE NOTED.
- 3) CONSULT A LOCAL WATER TREATMENT COMPANY FOR RECOMMENDED CHEMICAL TREATMENT.
- 4) ISOLATE ALL CHILLED WATER PIPING WITH 1/2" JMWFLUX, OR EQUAL.
- 5) ISOLATE ALL CHILLED WATER PIPING WITH 1/2" JMWFLUX, OR EQUAL.
- 6) FIELD WIRING AND DISCONNECTS ARE BY OTHERS. REFER TO ELECTRICAL DRAWING 082009-LHT-002.
- 7) PITCH ALL OUTSIDE HORIZONTAL PIPING @ 1/4" PER 1'-0".
- 8) THERMOMETERS: ASHROFT SERIES E1, GRADE A (30-130°F), OR EQUAL.

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INSTALLATION DRAWINGS

- Complete, color-coded flow schematic drawings show pump curves, electrical connections and pipe sizes
- Plan view layout drawings with equipment and piping are available

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CENTRAL CHILLERS

- Air-cooled or water-cooled models
- Capacities ranging from 20 to more than 500 tons
- Single, dual or multiple circuit evaporators
- State-of-the-art scroll and helical rotary screw compressors
- Factory-assembled refrigeration components, including piping, sight glasses, filter/dryers and expansion valves
- Complete indicator and fault light packages
- Oil, high refrigerant and low refrigerant pressure switches
- Flow and pumpdown switches
- Microprocessor controls for reliable, long-term operation

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PUMP TANK ASSEMBLIES

- Choose one-piece molded polymer or rugged stainless steel tank construction
- Single and dual compartment tank designs
- Automatic float valve and drain for constant water level
- Heavy-duty industrial pumps
- IEC-rated motor starters
- Triple-duty valve performs shut off, check and balancing functions
- Simple push button to high-end PLC with touchscreen controls
- Variable frequency drives

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COOLING TOWERS

- Seamless, rust-free design
- Capacities from 10 to 500 tons
- Single-point inlet water connections
- Bottom or side outlet connections
- Lightweight molded polyethylene tower is as strong as steel, but costs less to install
- 15-year warranty on tower shell
- 5-year warranty on fan/blower motors

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PUMP PERFORMANCE CURVE VOLTAGE: 460/3/60Hz

PUMP MODEL	IMPELLER	HP	MOTOR TYPE	RPM	CFM	PSI
P1	52	5.87	7.5	ODP	3500	150
P2	52	5.87	7.5	ODP	3500	150

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PUMP PERFORMANCE CURVE VOLTAGE: 460/3/60Hz

PUMP MODEL	IMPELLER	HP	MOTOR TYPE	RPM	CFM	PSI
P3	18	4.37	3	ODP	3500	150
P4	56	6.25	25	ODP	3500	400
P5	56	6.25	25	ODP	3500	400

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P4	56	6.25	25	ODP	3500	400
P5	56	6.25	25	ODP	3500	400

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CHILLER/TOWER: FLOW SCHEMATIC

SHEET 1 of 1 | 082009-LHT-001 | C

SIZE: D IOWN BY: REG

We want our central cooling systems to be easy to use, easy to service and easy to expand. So we design and install these systems with maximum efficiency and optimum performance in mind.

Just tell us about the materials you process and what you want to cool. We'll help you determine what kind of system is the best choice for your facility and application.

