

Central Chillers MX Series

For more than 40 years, Thermal Care has been manufacturing reliable and efficient central chilling systems – no matter what the need or application. The MX Series is the newest design in our wide range of available central chillers for industrial applications.

Built with dependable Bitzer compact rotary screw compressors and available with powerful PLC controls, the MX Series is the perfect solution for users seeking reliability, energy efficiency and an expansion-ready capability.

MX Series chillers are available in sizes from 50 to 125 tons per module — with one, two, three or four modules.



Dependable and Efficient

The newest model in our central chiller lineup – the MX Series – is designed for heavy-duty chilling applications that require dependable performance and efficient operation. You can save as much as 20 to 30 percent in energy costs over conventional chillers with advanced MX Series chiller technology and controls. And, be sure to ask about our energy evaluation program. It allows you to compare the annual estimated operating costs for your application when using an MX Series chiller compared to the costs when using other types of chillers.

Available in both water-cooled and remote condenser models, these compact chillers use Bitzer rotary screw compressors with integral oil separators and filters. All units come standard with a UL/CUL 508A listed control panel. Each independent refrigeration circuit contains corrosion-resistant stainless steel brazed plate evaporators that can handle much larger flows than conventional shell and tube evaporators. Plus, MX Series central chillers use R-134a refrigerant, which makes them compliant with all current environmental standards and regulations.

Modular and Expandable

Might you have a possible need to increase cooling capacity at some future date? If so, the MX Series central chiller is the perfect unit for your application. In addition to a compact footprint, our modular design allows for multiple circuits to be quickly and easily linked together without extensive piping using a common water manifold – plus the powerful PLC control system can handle up to four chiller modules.

The compact footprint of the MX Series allows for easy access to components and controls. All water connection heights are the same for all chillers in the MX Series and all piping connections are located on one end of the chiller frame.

CompactLogix PLC Controller from Allen-Bradley

Chiller control screens are easy-to-read and interpret. Touch screen operation is easy-to-learn and intuitive.



Every Thermal Care central chiller comes with factory authorized start-up service. Our MX Series central chillers come standard with the industry's best warranties.

- One full year on parts
- One full year on labor
- Three full years on PLC controller and interface.

Powerful control with easy-to-operate display screens.

All Thermal Care MX Series central chillers come standard with an Allen-Bradley CompactLogix PLC controller and a Maple Systems color touch screen interface. No difficult languages to learn or complicated abbreviations to interpret – clear and concise screens allow easy control and monitoring of the cooling system.

Controller features and functions

Controllers have an expansive range of functionality – many not found on comparably priced or equipped units from other manufacturers.

- Alarm history with occurrence reset date and time stamp

- Compressor anti-recycle timer
- Compressor enable/disable
- Condenser water regulating valve control capability
- Internal calendar and clock
- Password protection of adjustable parameters (both user and/or factory settable)
- Adjustable process water high and low temperature alarms
- Remote alarm contact
- Remote start/stop
- Single point chiller water and cooling tower system enable
- Single point selection between English and metric units of measure

Controller display features

- Compressor refrigerant discharge pressure and temperature
- Compressor refrigerant suction pressure, temperature and superheat temperature
- Compressor running hours
- Percent compressor capacity
- Condenser water inlet and outlet temperatures
- Electronic expansion valve position or percent open
- Evaporator water inlet and outlet temperatures
- Process water set point temperature

Count on Thermal Care to be your one source for a complete line of dependable process cooling equipment. From system design through equipment start up, to exceptional service and repair parts – Thermal Care does it all.

For additional specifications and system information, please visit us on the web at www.thermalcare.com



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