



A Higher Level of Comfort

Custom Air Handling



Advanced Hydronics



LEADER IN CUSTOM MODULAR CLIMATE SOLUTIONS

TMI Climate Solutions combines innovative design, custom manufacturing and powerful partnerships with a strong commitment to the highest quality and customer satisfaction to lead the custom modular climate solutions market.

Over the past 30 years, TMI has evolved continuously to deliver valued climate solutions to customers and into commercial and industrial refrigeration markets.



CUSTOM AIR HANDLING SOLUTIONS FROM THE BEGINNING

Since the company's inception in 1982, TMI maintains its leadership in delivering highly customized air handling systems with its Custom Air Handling division. With a foundation of expertise in pre-piped and wired custom air handling units, TMI evolved to provide complete factory assembled mechanical penthouses.



EXPANDING TO ADDRESS ADVANCED HYDRONICS

TMI later developed its Advanced Hydronics division to further address customers' unique requirements in the design and manufacture of systems up to 100,000 pounds such as modular utility plants, chiller and boiler plants, complete pumping systems, and custom DX units.



POWERFUL PARTNERSHIPS

In 2008, TMI was acquired by MiTek Inc, the world's leading supplier for the building components industry and is a subsidiary of Berkshire Hathaway, Inc. This partnership supports the progression of technological development in both the Custom Air Handling and Advanced Hydronics divisions, aligning with our commitment to better serve customers with product innovation, outstanding customer service and excellence in design, manufacturing and systems performance.

MiTek[®]

Better Technology. Better Building.SM

STATE-OF-THE-ART MANUFACTURING

Our commitment to our customers goes beyond ensuring their HVAC needs are met with the highest quality, cutting-edge technology. We are dedicated to large-scale manufacturing excellence to better serve our customers.



In addition to our 190,000 square feet facility in Michigan, we recently expanded our manufacturing capacity with a new 190,000 square feet facility in Montréal. This enhances our export capacity and the range of custom-engineered HVAC systems that we can provide to our customers with faster order processing. The facilities are ISO 9001:2008 accredited and have the capability to assemble all major equipment.

EXPERT-DRIVEN SOLUTIONS

The finest material and components are ineffective without the expertise of our engineering and project management teams that innovate, build and manufacture our solutions in a high-quality, efficient way for our customers. We understand each customer has unique requirements, which is why a dedicated project team is assigned from concept to well after completion—providing innovative, cost-efficient customized solutions to fit your HVAC needs.



DIVERSE, HIGH-QUALITY HVAC PRODUCT PORTFOLIO

Our vision is to be the global leader in custom modular climate solutions. To achieve this, we strive to provide a diverse, high-quality HVAC product portfolio to fit a wide-range of applications for our customers.

CUSTOM AIR HANDLING SOLUTIONS



TMI Custom Air Handling Units can be constructed in modules or as one piece in outdoor construction, such as this unit for a pharmaceutical customer.

Custom Air Handling Units

Highly customized air handling units (AHU) require extremely tight tolerances and can be sold into facilities and plants with a wide range of complexity. TMI manufactures the highest quality rooftop and interior custom units in the country.

- Designed for large scale or tight spaces in mechanical rooms
- Customized for both rooftop and penthouse
- Piping to single point connection
- Electrical to single point connection
- 100% custom manufactured
- Architecturally sound construction

The AHU line now offers a configurable custom option that includes a more standardized construction design and materials but with full custom AHU design capabilities, up to 12" of static pressure. The TMI configurable and custom AHU's complement our full custom line by offering all materials of construction and the same design flexibility with basic piping and controls. This option provides a shorter lead time and lower cost to meet customer needs in the commercial market who do not require full custom construction.

Fan Array™

TMI Fan Array systems integrate into AHUs when the technology benefits the project. Our design consists of multiple direct drive fans assembled into an array controlled by: a single VFD, multiple VFDs, or EC Blue integrated motor controllers.

- Lower noise output and reduced footprint
- Backflow preventer and EC Blue fan array
- Retrofit capability
- Increased redundancy
- Simplified maintenance



The integration of smaller, standard-sized fans reduces footprint, simplifies maintenance and saves energy.

FULL SCALE CAPABILITIES IN A SINGLE PROJECT

From innovative engineering and custom manufacturing capabilities to dedicated project management and site services teams, our full scale capabilities are designed to align with the commitment we have to our customers.



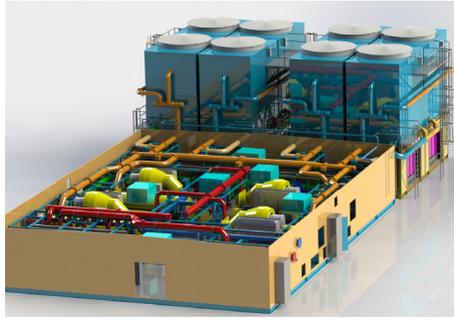
EXPANDING TO ADDRESS ADVANCED HYDRONICS



Prefabricated Custom Penthouses

Factory assembled mechanical penthouses encompass mechanical and electrical equipment, piping systems, power distribution, controls, and more, to provide a fully functional mechanical room.

- Lower overall project cost
- Single point connectivity
- Incorporates air handling units and associated mechanical equipment under one common base
- Higher quality based on a factory controlled production and installation
- Shortened construction cycle and flexibility



Modular Utility Plants

From start to finish, any modular utility or boiler plant takes approximately 16-20 weeks to design, procure, manufacture and install with proper coordination. Our plants mitigate risks by meeting project cost, delivery schedule and performance certainty.

- Complete electrical switchgear included
- Highly efficient variable primary chiller water system or hot water pumping systems for condensing and non-condensing boilers
- PLC or HVAC based controls
- Condenser piping system
- Cooling towers can be mounted next to or above the modular chiller plant
- Complete integration to facility management via Lon or BACnet
- 3D CAD modeling for direct integration



Complete Pumping Systems

These systems range from 400 to 6,000 GPM and may be integrated as a stand-alone pumping system or as part of a larger integrated HVAC utility plant.

- Complete electrical switchgear included
- Highly efficient variable speed pumps
- Industrial controllers where required
- Complete integration to plant facility management via Lon or BACnet
- Hydronic specialties included
- Custom configurations for tight equipment room

BUILD FROM “THE INSIDE OUT” PHILOSOPHY

Our “build from the inside out” philosophy focuses on the strength and integrity of the interior panels. TMI designs and engineers the interior panels to fit specific requirements of our customers, including air flow and static pressure. Ensuring interior panel integrity allows the flexibility with outer panel custom options to match building aesthetic or requirements.



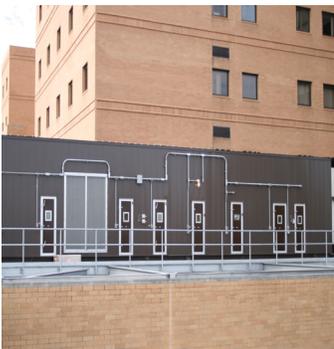
CUSTOM DX SOLUTIONS



Custom DX and Air Cooled Chilled Water

TMI offers a wide variety of custom DX equipment engineered specific to your unique requirements. We manufacture high quality, high performance equipment for new construction and retrofit applications.

- Low sound design
- 20 to 100 Ton standard and custom modules
- Reduced footprint
- Split systems
- Stainless steel, aluminum, or galvanized material



Custom Enclosures

With our “build from the inside out” philosophy, TMI focuses on the strength and integrity of the interior panels to ensure air flow, static pressure, and other inner components meet expectations. This allows flexibility with outer panel custom options to match building aesthetics.

- EZ-Fit construction includes no thru metal and inner fastening screws that are ideal for knock-down
- construction projects and easy site assembly
- Spray foam or fiberglass insulation, up to 4”
- Series of panel designs available or can mount specific panel types
- Stainless steel, aluminum, galvanized or painted construction material
- Non-thermal break or non-pressurized enclosures available

DEDICATED PROJECT MANAGEMENT

To ensure a strong relationship with our customer partners, TMI Climate Solutions integrated an assigned project team strategy. A project team, including a project engineer and project manager, is assigned to each customer from concept to service to maintain clear communication channels throughout the entire project cycle and ensure customer objectives are met.



MARKET FLEXIBILITY

Whether our modular climate solutions need to address rigorous extremes of a government research facility or health concerns surrounding indoor air quality in a hospital, TMI Climate Solutions specializes in the highest quality custom manufactured air handling and advanced hydronics systems available for a diverse range of global markets.

We have completed projects for a vast amount of different companies and organizations, including:

- Industrial
- Government and military
- Institutional labs and research
- Data centers
- Healthcare and pharmaceutical
- Commercial and industrial
- K-12 education



INDUSTRIAL



This 5,200 ton modular utility plant was constructed to fit inside an existing building with the capability for future expansion.



HEALTHCARE



Architecturally-pleasing siding options available from TMI ensure our healthcare customers meet aesthetic requirements. Anti-microbial coatings for interior liners are also available.



DATA CENTERS



Six, 40 ton modules snapped together to create this large custom air cooled chiller. This included EC Blue motor technology, free cooling and low sound.



EDUCATION

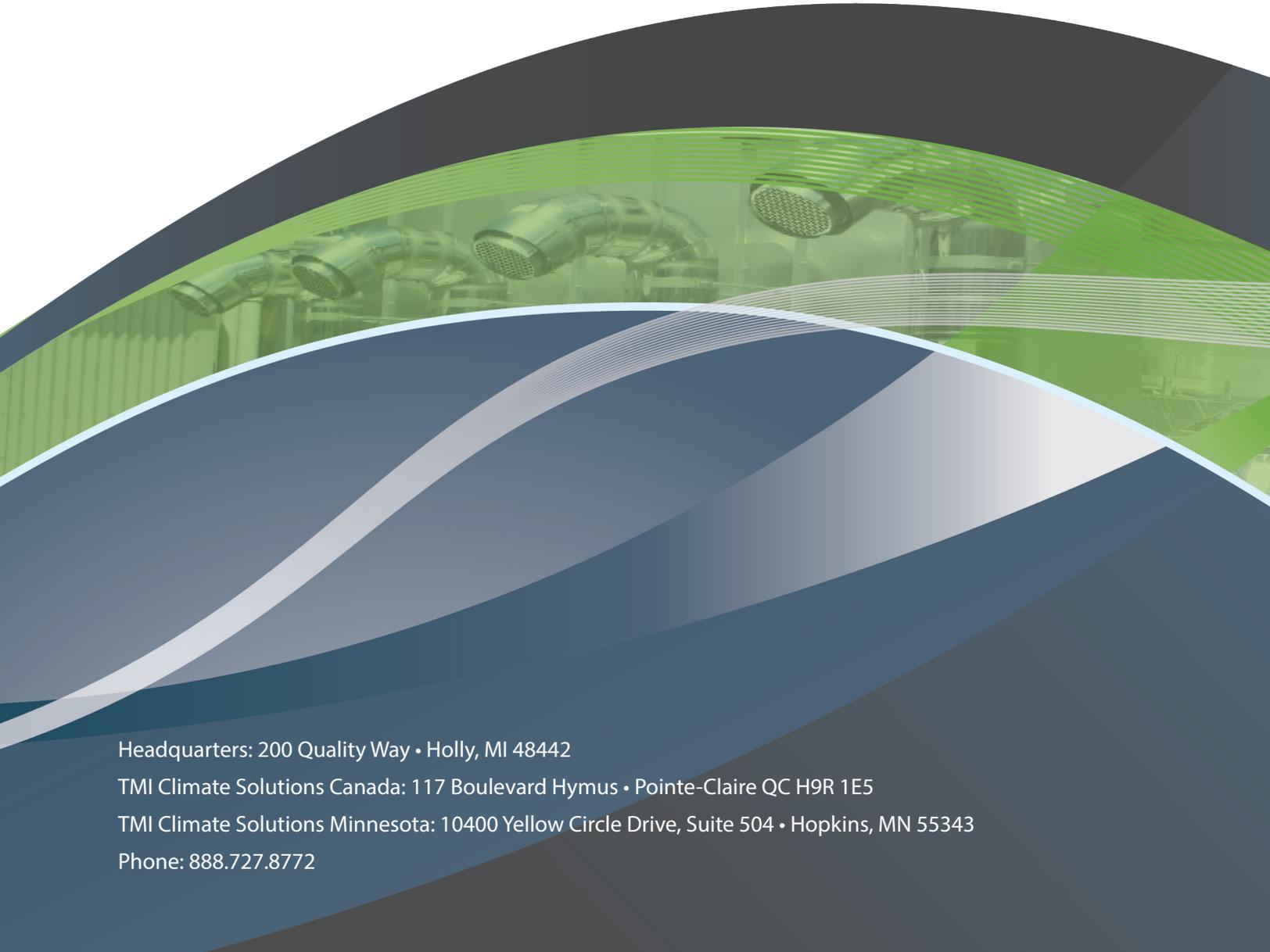


For the new LEED Silver Certified DePaul Theatre School, the unit incorporated TMI's fan array to provide quiet and energy efficient fans.

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