Modular Chiller Plants

TMI Climate Solutions Inc., a long time manufacturer of Custom Air Handling Systems, offers a complete line of manufactured Modular Chiller Plants as a solution for your climate control needs from our Advanced Hydronics Division.

Main Features

- Complete electrical power distribution included
- Highly efficient variable primary chilled water system
- PLC or DDC based controls
- Condenser piping system
- Cooling towers mounted next to the modular chiller plant
- Complete integration to plant facility management via Lon or BACnet, Modbus, or customer specified protocol
- 3D CAD modeling for direct integration

The Packaged Chiller Plants are a combination of different types of chillers and pumping systems for chilled water and condenser water systems. Chiller Plants are classified as small, medium, or large tonnage systems and include associated pumping and control systems. They are designed for singular and modular arrangements that easily split into sections for shipment and reattachment in the field. A standard unit includes multiple power feeds, one for each chiller and one or two for the total pumping systems. It also includes controls and ancillary plant devices such as lighting, convenience outlets and house HVAC. The packaged chiller plant can be provided with a singular power feed, and include other utilities such as domestic hot water, fire protection and additional distribution for other building devices.
Our Modular Chiller Plants are completely manufactured at the TMI facility in Holly, Michigan. This allows for minimal disruption to any jobsite, and over 90% of the chiller plant is manufactured off-site and dropped into place at any facility in a few weeks. The final fit and finish of the Modular Chiller Plant can be completed by the TMI Construction Services team or your local installer inside of the modular plant.

**Small, Single Lift Chiller Plants** can include up to 2 x 300 ton Screw or MagLev Bearing Chillers, up to 500 tons of Modular Chiller Sections, or a Single Centrifugal Chiller up to 600 tons. Cooling Towers can be installed on the same base up to 250 tons, or coordinated for field installation.

**Medium (two or three section) Chiller Plants** can include Centrifugal or Modular Chillers up to 1,000 tons each. Integrated cooling tower sections allow for easy installations and a low profile. Most Modular Plants can include full power distribution to all equipment.

**Large Chiller Plant Sections** can accommodate Chillers from 1,000-1,500 tons. All piping and valves include grooved pipe for easy connections. All electrical runs are in easy access cable trays. Large control values are accessible in piping from the floor.

From start to finish, any Modular Chiller Plant takes approximately 20 weeks to design, procure, manufacture and install with proper coordination. You, as the customer, have control over major equipment vendors, including the Chillers, Cooling Towers, Pumps and Electrical Gear. With the integration of the industrial grade controls, you receive a system equal to or better than a traditional field built chiller plant.

**All TMI Packaged (Modular) Chiller Plants come equipped with proper HVAC and ASHRAE 90.1 compliance for a safe and comfortable operating environment.**