



MODULAR CHILLERS REINVENT HVAC INDUSTRY BY BOLSTERING EFFICIENCY

Modular chiller plants maximize energy and water efficiency, offer greater flexibility and provide an optimal alternative to conventional chillers.



Current chiller options in New York City pose serious challenges to building owners, engineers and contractors. This is because conventional chillers take up too much space, are too difficult to install and maintain and are incredibly wasteful in terms of both energy and water consumption. There has to be a better way.

A more innovative alternative that maximizes energy and water efficiency, as well as offers greater flexibility, is the modular chiller plant. A modular chiller is a small-tonnage chiller plant designed to be connected and operated in a series to make up a larger chiller. Two types of modular chillers exist:

- **Air-cooled modular chiller**, which rejects building heat directly to the environment.

- **Water-cooled modular chiller**, in which building heat is rejected to a water loop and subsequently dispensed via a cooling tower or geothermal well.

Modular chiller plants are poised to reinvent the HVAC industry due to the many benefits they provide, such as lower installation costs, less expensive redundancy and the avoidance of a stationary engineer. Further, with variable flow pumping, less energy is used, more comfort is achieved due to tighter temperature control and code compliance is improved.

Two of the best and most innovative modular chiller options on the market today are the Aermec NYB Air-Cooled Modular Chiller and the Aermec WWM Water-Cooled Modular Chiller. They are the optimal choice in efficient modular chiller plant design for the following reasons:

Aermec NYB Air-Cooled Modular Chiller



The award-winning Aermec NYB Air-Cooled Modular Chiller is the industry's only modular air-cooled chiller featuring integrated free-cooling operation. Inspired by HIGHMARK, the NYB is AHRI Certified and designed specifically to meet stringent New York City energy codes by maximizing free-cooling potential. The NYB's key benefits include:

- **Efficient and ecological:** The NYB is the only modular air-cooled chiller featuring integrated free-cooling operation to boost efficiency.
- **Green building certified:** The NYB is UL Listed and AHRI Certified to meet ASHRAE 90.1-2010 minimum efficiency levels.
- **Peace of mind:** Functionality and performance tests are conducted on each NYB module in a climatic test chamber to ensure ultimate reliability.
- **Easy to install and use:** The NYB fits easily through standard doors and into elevators, and Victaulic connections allow for fast installation. Operation is also simple.
- **Quick servicing:** With accessibility provided at the ends of the unit, the NYB enables quick in-row servicing without interrupting operations.
- **Advanced user-friendly control:** The NYB's user-friendly microprocessor controller optimizes mechanical and free cooling.
- **Lowest noise levels:** The extremely quiet operation of the NYB provides a solution to sound-sensitive applications.
- **Multiply your benefit:** Multiple NYB modules retain a 100% free-cooling capacity without additional dimensions needed.
- **Award-winning design:** The NYB was named a 2017 AHR Expo Innovation Award Finalist for its cutting-edge design that challenges the HVAC status quo.

Aermec WWM Water-Cooled Modular Chiller



The Aermec WWM Water-Cooled Modular Chiller is small in size, flexible in terms of installation, simple to service, energy efficient and compliant with

strict New York City energy codes. The WWM is the industry's most compact and energy-efficient chiller on the market today. The WWM's key benefits include:

- **Small footprint:** The WWM's footprint is half the size of its competition, thus enabling it to fit through standard doors and into elevators for easy installation. Its small size also frees up valuable square footage for building owners to utilize for boosting lease potential.
- **Tremendous flexibility:** Unlike other products, the WWM has many flexible installation and layout options, including back-to-back, side-to-side, top-to-bottom or any of these combinations.
- **Streamlined maintenance:** The WWM is straightforward to service in tight building interiors, and the refrigeration components that need to be serviced are located in a drawer that slides out for easy access, without interrupting operations.
- **Maximized energy efficiency:** The WWM is the most energy-efficient chiller in its class, while having the lowest refrigerant charge of any chiller on the market.
- **Compliant with strict energy codes:** The WWM is AHRI Certified and exceeds all ASHRAE 90.1 energy code requirements for chiller energy efficiency.

The Aermec NYB Air-Cooled Modular Chiller and the Aermec WWM Water-Cooled Modular Chiller will change the way chillers are installed, serviced and replaced in New York City and across the country.

To learn more about modular chiller plants, visit:

