

NYC RESEARCH INSTITUTION CHILLER REPLACEMENT

CLIENT SUCCESS PROJECTS

The Challenge: Aging Chiller Plant Replacement

An aging chiller plant built around four Multistack modular chillers had reached the end of service life. The system presented multiple challenges:

- Declining efficiency and higher operating costs
- Limited flexibility for future system controls and optimization
- Aging electrical and piping infrastructure

The client needed a reliable, modern replacement with minimal disruption and future upgrade flexibility.

The *TurboChyll* Company Solution

TurboChyll delivered a turnkey modular chiller replacement, upgrading four legacy Multistack units to four new 30-ton Aermec modular chillers. The scope included **engineering and design** coordination, **turnkey installation, electrical, insulation and piping upgrades**, and preparation for future building management system (BMS) integration. A **Phase 2** planned to add new condenser and chilled water pumps with VFDs to improve efficiency.



Demolition & Removal of Multistack module



New Electrical, Insulation and Piping



New 120-tons Aermec Modular Chillers

Delivered Results and Impact:

- Modernized, high-efficiency modular chiller plant
- Lower risk of downtime and emergency repairs
- Infrastructure aligned with modern standards and future controls
- Scalable design supporting VFD upgrades and BMS integration
- Clear path to ongoing energy savings and performance gains

About Us

The TurboChyll Company has served the commercial office, healthcare and plant services sector with HVAC maintenance, repair & solutions for over 25 years.

What are the signs it's time to upgrade your chiller plant?



Frequent maintenance, repairs, and failures causing ongoing operational disruptions.



An aging chiller delivering poor cooling performance and undersized for operational demands.



Outdated refrigerants risk compliance and sustainability.



Outdated chillers lack modern efficiency & control, driving higher operating costs and reduce reliability.



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