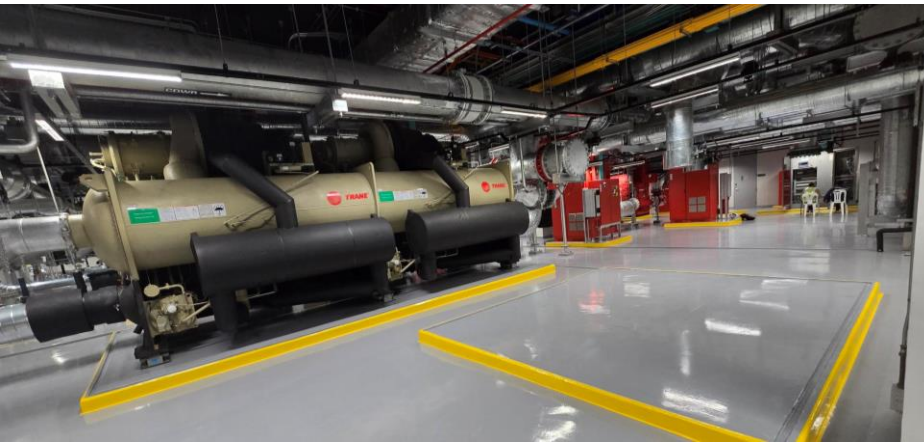


Reliable Cooling System at a leading Data Center in Thailand



Challenge

A leading Data Center provider required an innovative and highly reliable cooling system at one of its sites in Thailand. It needed a cooling system that could handle increasing heat loads while minimizing energy consumption, lowering costs and aligning with green building standards while keeping the data center running without any interruption.

Solution

Enhanced efficiency using advanced technology of strategic design and innovative commissioning with high accuracy sensors to ensure system reliability.

- High-efficiency chillers with direct drive low speed and variable speed drives.
- CPMS (Chiller Plant Management System) with Trane Tracer TU software to monitor performance in real-time with redundancy systems to ensure continuous operation, meeting the specific requirements of data centers.
- Controls system that adjusts based on actual conditions and workload.

FAT (Factory Acceptance Test), SAT (Site Acceptance Test), and IST (Integrated Systems Test) to meet the standards for data center requirements.

Result

The Data Center achieved TIA-942 and Uptime Institute Tier III certification. It also received LEED Gold version 4 from U.S. Green Building Council (USGBC), proving the data center meets global standards for design and reliability.

Project Highlights

Market: Thailand

Segment: Data Center

Products and Services used:

- 4 X 2000 RT CenTraVac™ CDHF chillers
- CPMS Trane



Featured Products

Product name: CenTraVac™ CDHF Water-Cooled Chiller

At a glance:

- Capacity range: 1,450 - 3,950 RT
- Direct drive multistage compressors
- Semi-hermetic compressor design
- Rapid restart after power failure
- CPMS Trane



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.com or tranetechnologies.com.

All trademarks referenced in this document are trademarks of their respective owners.

© 2025 Trane. All Rights Reserved.