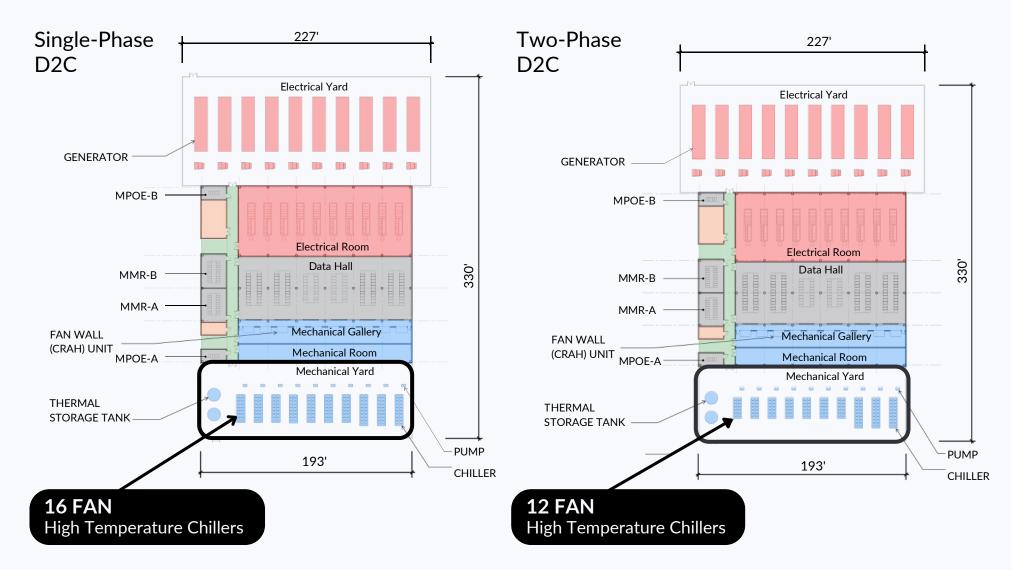
## Jacobs 10MW Data Center Reference Designs

## Introduction

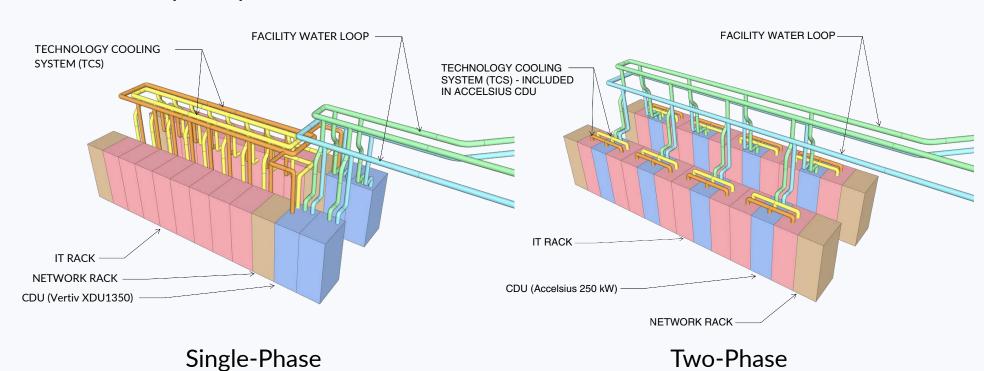
Jacobs Engineering created a 10MW data center reference design using two-phase direct-to-chip liquid cooling. They also provided a comparable reference design with single-phase direct-to-chip liquid cooling to help evaluate performance and cost between the two technologies in multiple climate zones. Check out the top takeaways.

## Top Takeaways

Two-phase D2C's better thermal performance reduces chiller load requirements, lowering up-front chiller cost and energy consumption



Integrated manifolds on the MR250 eliminates the need for a TCS, reducing cost and complexity



Chip-to-chiller infrastructure has comparable CapEx and lower OpEx, leading to a 5-year TCO savings of more than 10% for 2P D2C



\*TCO analysis is based on a data center in Austin, TX. Detailed energy consumption for Austin, TX and other regions is available on request. Additionally, the TCO analysis includes maintenance and piping material costs from other third-party sources.

