

PRESS RELEASE

Techno-Contact Elite deploying Edge Computing, the Cloud and IoT

Techno-Contact Elite was mandated by a Major Canadian Company to develop an IT POD (Micro Data Center) using CO₂ cooling. This major project wasn't for a single installation but rather for a multi-location deployment across Canada.



Challenges

Our client had specific needs to be met and each site would have its own particular requirements. Working with their existing properties, these premises included raw space, non-dedicated and/or shared equipment rooms and office spaces.

Techno-Contact Elite had to design a repeatable solution, that could be deployed in a few weeks rather than several months or years and this at a much lower cost than traditional systems or solutions available in the marketplace. The end product needed to be both modular and scalable. (20 to 250kW / 2 to 26 IT Cabinets)

The requested solution could not affect nor depend on other operating systems in the room. Therefore, they had to be autonomous and independent, with their own cooling system, uninterruptible power protection (N+1) and needed to include InRow Cooling and A+B InRow Power Distribution.

The client had identified the need for critical solutions where cooling towers or chillers did not exist. The micro data center solution's cooling systems had to meet these criteria by operating without water or Freon. They had to be ultra efficient, low-energy operation and include built-in fault tolerance. Moreover, our solution had come with a fully deployed monitoring (DCIM) software and require no periodic maintenance or inspections.

Solutions

Techno-Contact Elite developed a modular POD system that includes hot aisle containment, is easily adaptable to small/limited spaces and uses 100% Schneider Electric IT components, as well as newly designed, eco-friendly CO₂ precision InRow cooling units. This intelligent POD system, complete with a fully deployed monitoring package (DCIM), offers rapid deployment and installation in a fraction of the time and cost required by traditional solutions.

Highlights

Techno-Contact Elite designed and drove this project in collaboration with a Quebec based CO₂ refrigeration specialist and Schneider Electric.

This project was delivered successfully, within proposed budget and timeframe.



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