

Technology Solutions Contracting Data Centers

Indoor environment reliability and control. Energy efficiency. Sustainability. Security.



These are a data center's biggest challenges. That's why its technology systems should be installed by a single provider with expertise in each: Ingersoll Rand.

With so much of your business' success dependent on your data center, you need a best-in-class partner to design, install and manage your integrated technology systems.

Technology Solutions Contracting from Ingersoll Rand provides the expertise you need through our family of brands—specialists in their respective industries.

Trane, a recognized leader in HVAC controls, equipment and services, delivers sustainable, optimal indoor environment for a high level of uptime and reliability.

Ingersoll Rand Security Technologies, a leading security systems integrator, provides a high degree of integrated security solutions for people and asset protection.

An impressive portfolio of successful projects.

Our experience with data center construction—new builds, remodels, expansions and retrofits—is both deep and wide. We have completed projects for companies in virtually every industry, including financial services, industrial, pharmaceutical, government and semi-conductor manufacturing and across a wide variety of facility types and customer requirements.

Furthermore, through our direct customer interaction and extensive customer focused analysis, we have developed a thorough understanding of the issues you face, and approach every project with your concerns as priorities:

- Mandatory uninterrupted operation, 24 hours a day, 7 days a week, 365 days a year
- Scalability for future growth
- Systems control and efficiency
- Reduced energy consumption
- Green energy solutions
- Integrated/automated controls and operations
- Measured PUE (Power Usage Efficiency), DCIE (Data Center Productivity) for analysis and reporting
- Interoperability of environmental and security systems
- Secure, safe situation for employees and data
- Convergence of the physical & logical security

When heat is the enemy, Trane is your strongest ally

About one-quarter of all data centers have experienced downtime due to equipment failure caused by overheating. Downtime creates havoc and every second your cooling system is down can be measured in dollars lost.

Trane has a long history and expertise at creating high performance cooling systems that are fiscally and environmentally responsible and reliable. We can build in necessary redundancy and provide customized service to optimize the performance of your data center while minimizing any potential single point of failures.

Increased server densities create increased thermal densities required to meet surging demands. That coupled with the ongoing trend of data center consolidation, means our HVAC solutions are developed with the robustness and scalability to meet your future changes. Trane designs our systems to be modular and capable of interoperable integration, thus managing your budget today without limiting your options for expandability tomorrow.

Ingersoll Rand Security Technologies uses a holistic approach to create a total security envelope for data centers and their staff. This end-to-end solution includes integration of vital security information which restricts access, visually records events and records historical data of transactions and events.

Ingersoll Rand's breadth & depth of knowledge of security allows owners to focus on critical tasks at hand while we design, install and service your data center's security needs. Limiting access to the data center using IR hardware for doors, providing electronic access & alarm monitoring and closed circuit television limits exposure to security threats and downtime.

To learn more about the specific ways we can help make your data center more efficient, reliable and secure, talk to one of our representatives today.

Mission-Critical Cooling in a Pacific Northwest Data Center

Trane recently supplied cooling for an ultra-high-density, 70,000 square-foot data center in the Pacific Northwest which generates 500 watts per square foot. Because the facility provides crucial support for product development, its HVAC system required redundancy and a high degree of reliability.

The Trane solution included two packaged central plants:

- One with three 1200-ton CVHF chillers
- One with two 180-ton RTHC chillers

The system included all required pumps, heat exchangers and other ancillary equipment, plus on-board Tracer Summit™ automation controls and BACnet™ integration to building control systems.

Trane installed the system under budget and six weeks ahead of schedule. Now fully operational, the system is delivering world-class reliability, guaranteed capacity and superior energy performance while supporting the building's future modular build-out.



Ingersoll Rand is a global diversified firm providing products, services and solutions to enhance the quality and comfort of air in homes and buildings, transport and protect food and perishables, secure homes and commercial properties, and increase industrial productivity and efficiency. Driven by a 100-year-old tradition of technological innovation, we enable our customers to create progress and a positive impact in their world.

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BAS-SLB028-EN June 15, 2009