

# When the power goes out, Trane keeps it cool



## Air-cooled chillers deliver RapidRestart™ capability

Data centers are mission-critical environments where reliable systems and responsive service are everything. Maintaining ideal temperatures, air flow, and humidity is key to ensuring these facilities remain running as effectively as possible.

Trane chillers offer efficient and reliable performance under normal operating circumstances. Under the extraordinary circumstances of a power outage, Trane really shines through.

If you're like many Trane customers, fast restart of your HVAC system is more than a matter of building comfort and occupant convenience. Safety and quality control makes it imperative to prevent overheating.

RapidRestart does not require additional purchase; It's simply one more benefit to installing Trane air-cooled chiller.

### A full portfolio of solutions for comfort and process applications



**RTAC** - Performance that is dependable and reliability you can count on



**RTAF** - Our most environmentally conscious air-cooled chiller that gives you choices



**ACR** - An unbeatable combination of high energy efficiency and quiet operation

### How Trane delivers RapidRestart™

- Our equipment, controls and operating procedures get the system back online as quickly as possible.
- Trane HVAC system design is optimized for fast restart.
- Advanced features and functionality are built into the chiller.

### Many factors influence chiller restart times:

- Chiller configuration
- Type of power loss (momentary brownout vs. blackout)
- Operation prior to restart attempt
- Stop to start timer of the chiller controller
- Chiller controller reboot time
- Chiller controller's ability to manage diagnostics
- Time needed for chiller to achieve near full load capacity

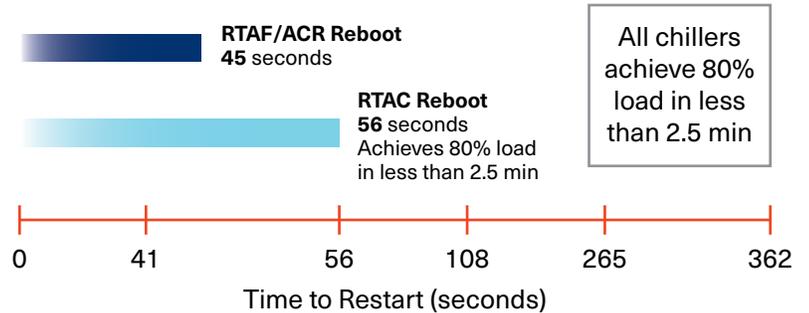
## Reduces thermal storage cost, too

The faster a chiller restarts, the smaller its chilled water tank needs to be. For buildings that utilize chilled water storage, the storage system can be smaller, less expensive and take up less space.

Use Trane chiller controls for even greater reliability and performance:

### Standard:

- Adaptive controls enable the chillers to adapt to changes and adverse conditions so it stays on as long as possible.
- Control Protocol Options: BACnet, Lon and Modbus
- Variable Primary Flow Optimization offers the key to proper control. Trane chillers have the industry's fastest rate of change in flow.



## The Complete Package

Trane not only provides customers with data center solutions, but we also ensure individual needs are met, installation is done properly, usage is understood and service is ongoing. Trane sets customers up for success through:

**Pre-sale support:** Trane experts make the most thorough recommendations possible.

**Best-in-class service:** Throughout the installment process, Trane is with our customers every step of the way. Trane experts go through a comprehensive training processes to be able to provide customers with the counsel needed for effective equipment use. Trane also offers technical training at our training facilities across the United States.

**Post-sale support:** Trane Intelligent Services enable real-time monitoring of your chiller operation 24/7/365, leading to improved energy efficiency, higher productivity and reduced costs.

With industry-leading expertise and a wide array of solutions and services, Trane—a holistic provider—can help customers ensure data centers facilities are highly reliable, efficient and sustainable. Trane's application engineering expertise and systems approach allows for efficient, flexible and scalable integrated designs, meeting specific customer needs that ensure uptime and performance is at the forefront of any data center implementation project. Trane experts and its broad solutions portfolio can help transform data centers with experience, innovation and passion for making buildings better—all while helping reduce energy intensity and insure uptime.



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](http://trane.com) or [tranetechnologies.com](http://tranetechnologies.com).