



# When the power goes out, Trane keeps it cool

Series R™ RTAC chillers deliver Rapid Restart™



Trane Series R™ chiller model RTAC offers reliable performance under normal operating circumstances. Under the extraordinary circumstances of a power outage, Trane really shines through.

While other manufacturers' chillers can take up to 15 minutes to restart –four to six minutes at best – **the RTAC restarts a compressor in as little as 56 seconds** after regaining a power source.

If you're like many Trane customers, Rapid Restart is more than a matter of building comfort and occupant convenience. Safety or quality control makes it imperative to prevent overheating.

Rapid Restart requires no additional purchase: It's simply one more benefit to installing a Trane RTAC chiller.

## How Trane delivers Rapid Restart™

Our equipment, controls and operating procedures make every second count.

- Trane HVAC system design is optimized for fast restart.
- Advanced features and functionality are built into the RTAC chiller.
- RTAC chiller controls are designed and engineered for fast restart.
- Proven operational procedures get the system back online as quickly as possible.

## The mechanics of superior protection

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

## Rapid Restart is just one RTAC's many benefits

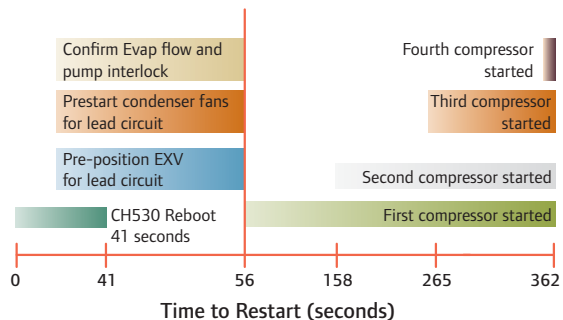
RTAC chillers from Trane offer many additional benefits – high energy efficiency, future scalability and industry-leading reliability, to name a few.

Find out how a Trane RTAC chiller can fit into your plans and budget. Contact your local Trane representative today.

## RTAC chiller design is optimized for fast restart at every point in the process.

Restart times are based on testing done at the Trane facility in Pueblo Colorado.

### RTAC Restart time complete power loss



## The shortest allowable time would be under the following conditions:

1. No motor restart inhibit
2. Evaporator Water flow
3. No latching diagnostics
4. Chiller set to Auto Mode
5. Need to Cool (Differential to Start is met)



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