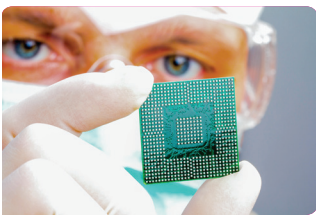


Peace of Mind Operation

The fastest chiller restart and capacity recovery following a power failure



The Quick Start feature – designed for your critical applications

Temperature sensitive operations such as data centers, pharmaceutical labs, hospitals, semiconductor production and other manufacturing facilities require constant cooling for equipment and processes. If power fails and cooling is interrupted, critical operations may also fail – risking millions of dollars in equipment failure and operational downtime.

The Quick Start feature reduces the risk of cooling disruption

Standard on all YMC² magnetic bearing centrifugal chillers, the Quick Start feature saves both time and money by:

- Reducing time for chiller restart after a power failure
- Rapidly bringing the chiller back to pre-power failure operating capacity
- Keeping critical space and equipment cooled
- Reducing the risk of expensive downtime

Smarter Power Management, Faster Restarts

After power is interrupted, it can take a standard centrifugal chiller many minutes to restart. But YMC² chillers can restart within 45 seconds after power is restored from a 15 second or shorter power failure. During a power failure, the Magnetic Bearing Controller, OptiView™ Panel, and OptiSpeed™ variable speed drive control circuits remain energized until the facility's emergency generator is activated. This smart power management eliminates the need for a control panel reboot so that the chiller can restart within 45 seconds of power being restored.



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YMC² restart and capacity recover times, in seconds

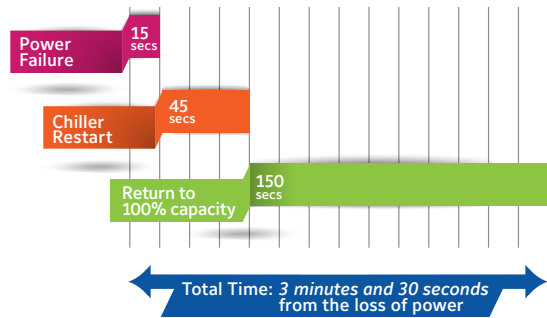


Figure 1 - Restart and capacity recovery times for a typical YMC² chiller after a 15 second power failure

Return to 100% Capacity - Centrifugal Chiller Comparison

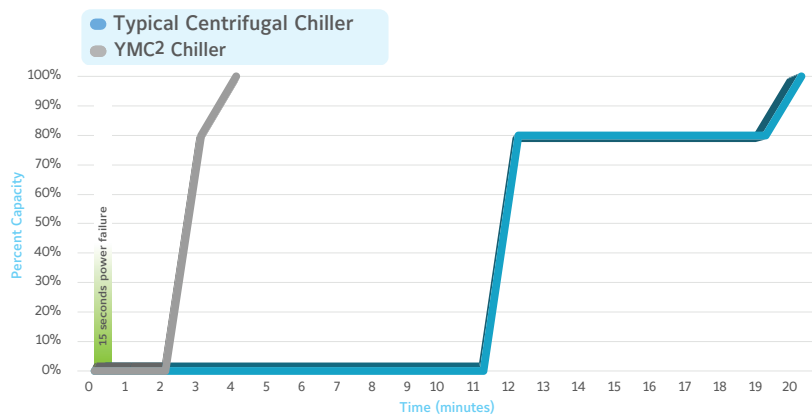


Figure 2 - Comparing the capacity recovery times

The fastest capacity recovery in the industry

Not only will your YMC² chiller restart quickly, more importantly, your chiller will return to its original operating conditions quickly, ensuring your facility does not lose precious products or services. YMC² chillers can get back to pre-power failure operating capacity within 3 minutes and 30 seconds.*

The YMC² YORK centrifugal chiller offers significantly faster capacity recovery times compared to the industry's typical centrifugal chiller. For your critical cooling application, consider a YMC² chiller that can return your facility to 100% capacity faster than any other chiller.

There are several factors that can alter or improve the times of a chiller with the Quick Start feature:

- Specific chiller configuration
- Percent capacity operation prior to power failure
- Length of the power failure

A performance test can be requested to witness restart times and capacity recovery times for your specific chiller, capacity operation, and length of power failure. Performance tests, requested in advance, are held at the Johnson Controls Water-Cooled Chiller Performance Test Facility and Customer Center in San Antonio, TX alongside our Water-Cooled Chiller Manufacturing Facility.

Proven Performance

With an ever-growing number of centrifugal chillers with Quick Start installed around the world, you receive peace of mind knowing your chillers – and your operation – can be protected by Johnson Controls from the consequences of a power failure.

For details on a YMC² chiller with the Quick Start feature, or to learn more about other Quick Start feature offerings, contact your local Johnson Controls branch today, or visit www.johnsoncontrols.com/chillers.

*Standard on most YMC² chillers, optional on a few lower capacity models.