

Smart HVAC

for Mission Critical Cooling Systems



Smart HVAC helps you optimize temperature control and cooling systems to ensure mission-critical facilities stay online without interruption

Save energy, reduce risk of downtime, and meet your sustainability goals

Downtime is not an option for mission-critical operations like data centers. Reliable and efficient air handling systems are needed to provide the temperature monitoring and control necessary to protect equipment. Poor visibility into energy usage and equipment performance can result in expensive reactive maintenance and increased risk.

With HVAC and cooling systems accounting for 37% of the energy usage in the average data center, fluctuations in utility prices can have a huge impact on operating costs and profitability. Sustainability is not just important to data centers, it is becoming crucial factor for customers as well.

37%

of energy used in datacenters is from HVAC and cooling systems

57%

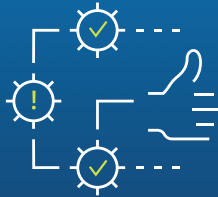
Datacenter operators view sustainability as a competitive advantage²

97%

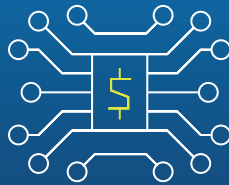
Have at least some of their customers looking for contractual commitments to sustainable practices²

Introducing Smart HVAC for mission-critical cooling systems

Smart HVAC provides equipment insights, tracks runtime data, and allows you to remotely monitor and control equipment, temperature set points, and schedules with a convenient app. With fault detection and alerts, you can resolve issues and initiate service requests for proactive maintenance before customers are affected



**Reduce risk of downtime
and revenue loss**



**Optimize efficiency and
lower costs**



**Meet customers
sustainability goals**

Smart HVAC combines best in class technology of Turntide TX Smart Motor System with the XNRGY XⁿFan Array

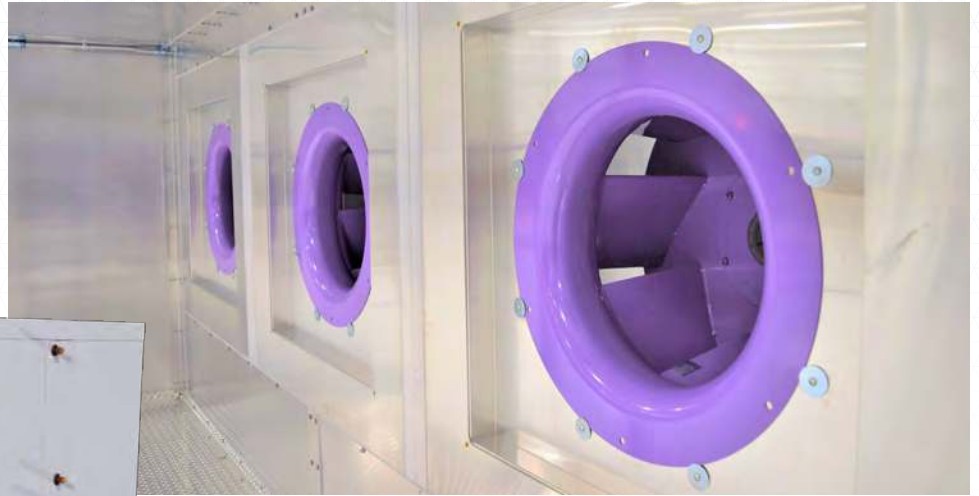


TX Smart Motor System

The Smart Motor System provides data and insights to help you understand equipment performance over time, improve efficiency, and schedule preventative maintenance to extend the life of your equipment.

Advantages of the TX Motor

- + Optimal efficiency through superior device physics
- + Ultra-reliable performance across all speeds
- + Slim design for space efficiency
- + Reduce bearing failure
- + Reduced weight
- + IE-5 efficiency ratings
- + Smart Motor diagnostics



XⁿFan Array

XNRGY Climate Systems is proud to introduce the XnFan Array composed of multiple XnFans in form of a matrix. Developed by the people who invented the fan array for use in air handling systems, the XnFan Array makes use of the latest technology in fan design, array configuration, control and flexibility.

Advantages of the XⁿFan Array

- + Proprietary noise control
- + Sustainable
- + Proprietary damper to minimize system effect and drag
- + Balanced to BV-5 vibration level
- + Variable footprint to meet customer custom needs
- + Flexible configuration
- + Uniform air distribution
- + Smaller footprint
- + Redundancy (N-1)
- + High-system efficiency
- + Ease of maintenance
- + Lower noise level

Smart HVAC delivers:

- + Energy Savings
- + Fewer truck rolls
- + Enhanced brand reputation
- + Reduced downtime
- + Operational efficiency
- + Reduced carbon emissions

Want to learn more?

Visit our website turntide.com
Talk to our team sales@turntide.com

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TURNTIDE TECHNOLOGY FOR SUSTAINABLE OPERATIONS

Our breakthrough technologies accelerate electrification and sustainable operations for energy-intensive industries.

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