

Symbio[®] 800

CenTraVac[®] CTV, Optimus[®] RTHD, Sintesis[®] RTAF, Ascend[®] ACS, CGAM, Series R models RTHC, RTWD, RTUD, RTAC



An even better view into your chiller.
Get more out of your chiller with a Symbio[®] 800 control upgrade.

Designed for operators, by operators

It only makes sense. A better user interface makes a better user. Trane doesn't just think that, we've proven it—through intensive user-design testing with chiller plant operators.

Operators asked for fingertip control with animated graphics for instant system analysis and instant response. They also wanted instant access to chiller performance data in easy-to-read trending charts and diagnostic reports. With AdaptiView, users can readily see how your chiller plant is running, and how they could make it run better.

A better chiller, a better building

A building's heating and cooling system accounts for nearly 45% of total energy costs. That's probably more than any facility manager would like. And if they could control those costs more effectively, they would.

The AdaptiView panel with Symbio helps operators keep the chiller plant running at its most efficient level. All thanks to a graphical user interface that provides a deeper understanding, along with quicker response times. Meanwhile, keeping building occupants more comfortable—and most likely with less effort, less energy and less hassle. That's what expert chiller control is all about.

From Trane

Trane is dedicated to improving the reliability, comfort and performance of commercial buildings around the globe. With over 4,200 factory authorized service professionals, backed by the Trane legacy of knowledge and expertise, we partner locally with owners and engineers to make buildings better.

Symbio[®] 800 Chiller Controls: it's how facility managers keep their cool

The Symbio 800 controller provides a launch point for the evolution of all-digital HVAC systems. The controller does what Trane knows best: draw out the results users need within the realities of their world, creating comfortable and efficient environments.

With an AdaptiView™ full-color touch screen display and interactive animated graphics enabled by Symbio 800, users view, access and control chiller operations and functions and gain insight into the operating patterns, energy use and system performance.

Algorithms embedded within the controller work with the unique capabilities of the CenTraVac chiller to keep buildings operational, even during the most challenging conditions when other chillers would shut down.

The Symbio controller enables remote connectivity to monitor, analyze and maximize your building's performance. Symbio 800 unit controllers integrate seamlessly and securely with Tracer or non-Trane building automation systems, leveraging secure remote IP connectivity (BACnet, Modbus[®] and LonTalk[®]) open standard communication protocols and optional Air-Fi[®] wireless technology for simplified equipment monitoring and management.

Manage multiple chillers from any location with Tracer SC+ controls

Multiple chillers and ancillary equipment can be managed together using a Tracer SC+. Tracer SC+ is a Building Automation System that offers many advantages to help you optimize the performance, operation and energy use for your entire chiller plant.

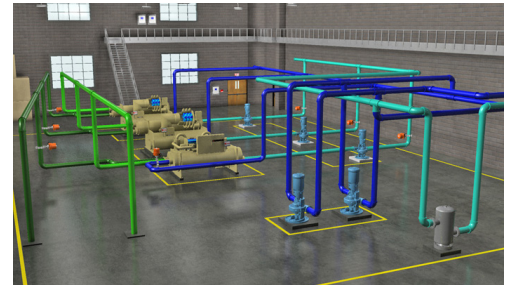
Tracer SC+ manages your HVAC systems and plants as well as lighting and energy use. When connected to Trane Connect Cloud, additional capabilities, service and support can be used to drive additional optimization, lower energy costs and improve equipment and system performance.

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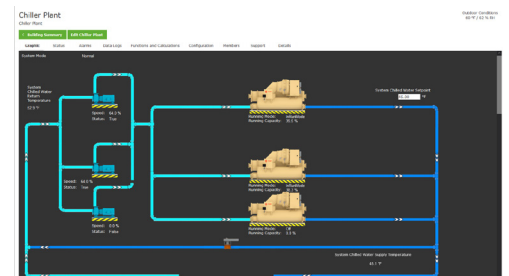
- Unit controllers can be factory-mounted to ensure easy installation and reliable performance
- Chiller sequencing routines optimize chiller plant energy efficiency by rotating individual chiller operation to equalize runtime, and by matching capacity to the building cooling load
- Coordinates pumps and cooling towers with the chiller operation for greater energy efficiency and reduced costs
- Alarms and diagnostic messages provide easier monitoring and troubleshooting



Trane customers directed the design of the AdaptiView user interface, which provides a practical approach to chiller management.



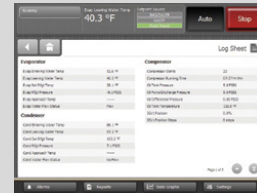
The Tracer SC+ controller provides an easy-to-use interface via the web to monitor and control a chiller plant from any location.



Ensemble & Synchrony Building Automation systems that work with Tracer SC+ system controls use an easy-to-interpret graphical display to report current operating conditions and energy usage.



- A Intuitive navigation:** helps operators access data and alarms for quick and accurate response and resolution
- B At-a-glance status:** on highly-readable color display showing key operating parameters of major chiller components
- C Adaptive Control:** algorithms built into Tracer AdaptiView pre-empt chiller disruptions during rapidly changing conditions
- D Open protocol flexibility:** BACnet MSTP (wired and Air-Fi option), BACnet/IP (wired and Wi-Fi option), Modbus RTU, Modbus TCP, LonWorks
- E Reports:** summarize data for clear understanding and interpretation



- F Graphs:** visualize trend data for troubleshooting and fine-tuning



- G Security levels:** limit access to designated, qualified staff members
- H 24 selectable languages:** convert the Tracer AdaptiView user-centered design for global deployment
- I Adjustable viewing angle:** for all operators in close quarters via ergonomic arm
- J Adjustable viewing angle:** to cleaning overspray; weather-resistant for outdoor mounting with optional cover

Flexibility

The Trane CenTraVac® unit with Symbio 800® controller is designed to create the highest level of flexibility during project design, installation and operation—delivering the ultimate experience that satisfies customer requirements.

- Accommodates all common integration methods with multiple communication protocol options (BACnet® MS/TP, IP, Air-Fi®, LonTalk® and Modbus®)
 - Reliable and secure wireless communications utilizing Air-Fi®
 - Secure remote IP connectivity
 - Open Standard Protocols without the need for gateways or additional hardware
- Seamlessly integrates with Tracer® Ensemble®, Pivot®, Synchrony™, and Concierge® controls
- More data and information available with integration

Quality and Reliability

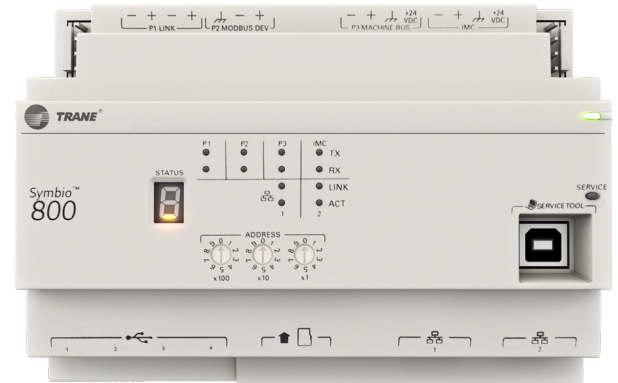
The CenTraVac unit with Symbio 800 controller ensures you have the highest quality and reliability available—performance that will meet your needs for years.

- Adaptive Controls™ help avoid potential equipment disruptions during rapidly changing conditions.
- Minimized wiring and electrical connections with intelligent control components.
- Superior controller diagnostics from variable frequency drives communicating via Modbus® and intelligent control components.

Lifecycle Support

Trane CenTraVac units have defined the category for more than 35 years with the highest customer satisfaction ratings in the industry. Now with customer insights, our new Trane CenTraVac with Symbio 800 controller continues to have the industry's highest energy efficiency.

- Symbio controllers use the same controls found in new production Trane chillers. They allow the replacement of nearly obsolete and no longer available controllers on existing Trane chillers.
- The Symbio control platform consists of easily replaced components compared to the large component boards found on legacy Trane unit controls. These modular controls reduce repair costs as well as speed of repairs because only the necessary component is replaced rather than the entire control board.
- In addition, the modular Symbio architecture allows you upgrade to the newest Trane controls in the future without having to replace the entire control system.



Trane Offers All the Upgrades Systems Need

Reliable and efficient Heating, Ventilating and Air Conditioning (HVAC) equipment is essential to daily business operation. From maximizing productivity to assuring occupant comfort, there are many reasons to keep your chiller up and running. However, with all mechanical equipment, deterioration occurs with time and usage. The key is to know when to take proactive steps to renew and upgrade your equipment, maintaining reliable operation and minimizing financial risk.

Other unit life-extending and upgrade options include:

- CenTraVac R'newal®
- Adaptive Frequency Drive R'newal
- Earthwise Purge
- Refrigerant Conversions

Trane also offers controls and building automation system upgrades to ensure systems are working at the highest possible efficiency.

Learn more at trane.com



TRANE

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 or tranetechnologies.com.

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