

Get Reliable Building Comfort *and* Decarbonize



An electrified HVAC system is becoming the future for buildings as the energy grid reduces reliance on fossil fuels. Many states and municipalities are pushing electrification further with mandates or incentives for building owners to reduce or eliminate fossil fuel-powered HVAC systems.¹

Trane can help you make the switch. Whether to satisfy new regulatory requirements, achieve efficiency certifications or advance net-zero energy consumption goals, our new electrified chiller-heater system offers configurations and options to fit a variety of building types so you can reduce or eliminate emissions from your building HVAC system while providing reliable occupant comfort. A chiller-heater system from Trane gets it done.

Pump up system reliability

Heat pumps are a key enabler for decarbonization. Because they move energy rather than generate it, a heat pump can be up to three times more efficient than other forms of electric heating.

The Trane Comprehensive Chiller-Heater System provides controls, equipment and technical knowledge packaged together for system success. The system connects to any hydronic airside system for reusing existing equipment and meeting IAQ goals such as filtration, increased or variable ventilation and air cleaning.



Ascend[®] air-to-water heat pump

The heart of our Comprehensive Chiller-Heater System is a fully electric Ascend[®] air-to-water heat pump model ACX.

Ascend[®] ACX helps meet efficiency and sustainability targets with:

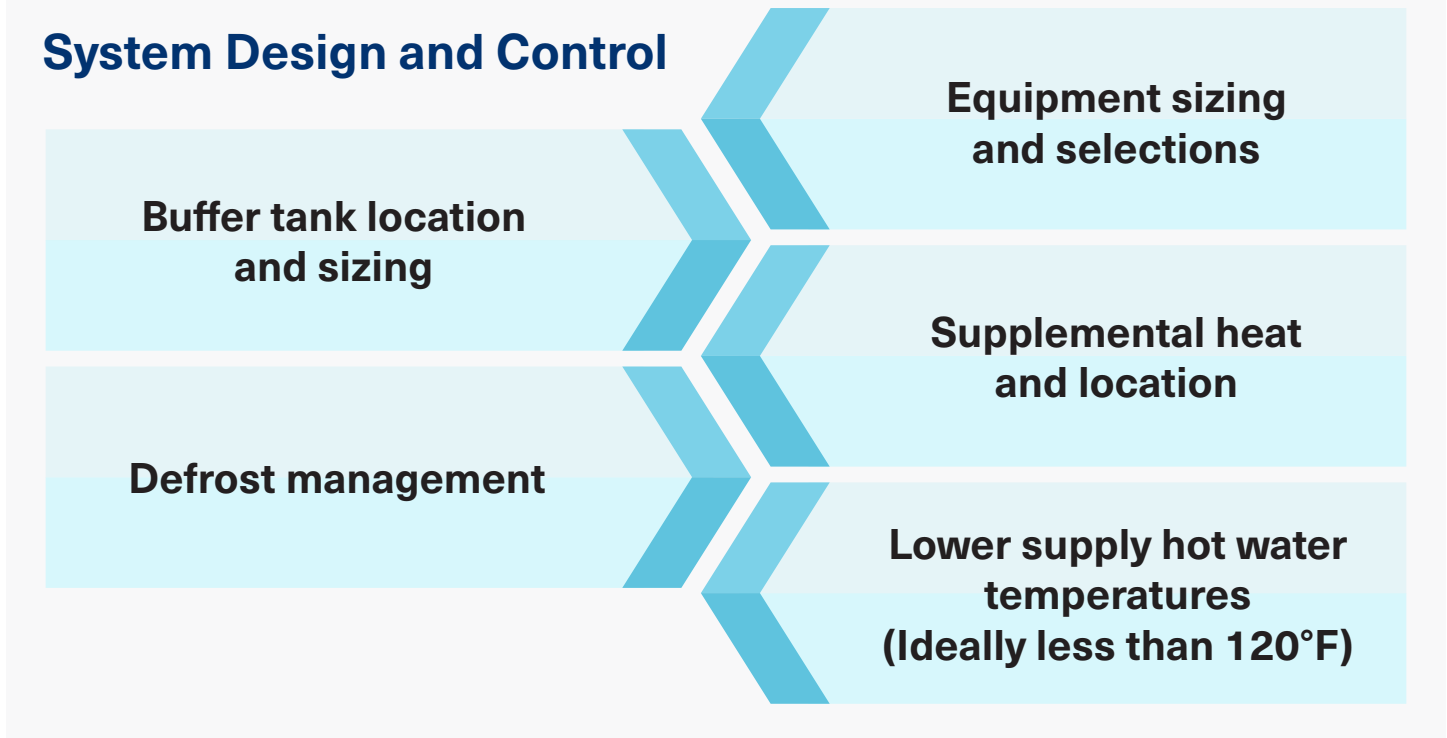
- Outstanding full and part-load efficiency that exceeds ASHRAE 90.1-2019 for heating and cooling to meet building codes
- Enhanced efficiency with variable speed fans, intermediate discharge valves on compressor, electronically-commutated fan motors and brazed-plate evaporator heat exchangers
- Reliability and optimum performance with dual expansion valves selected for heating and cooling modes
- Flexible capacity options from 140 to 230 tons of nominal cooling capacity and 1500 to 2500 MBh heating capacity

1. Utility Dive, Feb. 2, 2022: "States are accelerating efficiency, electrification efforts ..."

De-mystifying electrification

In colder climates the consequences of heating system failure can potentially be significant, making it important to design an HVAC system for the possibility of an extreme weather event. That's why Trane Comprehensive Chiller-Heater Systems are configured to meet the temperature, flows and redundancy required for year-round heating and cooling.

The system has the flexibility to be configured to simultaneously support heating and cooling using multiple heat pump units. One heat pump can be in heating mode while the other is cooling, with the proper system volume to match. Each heat pump uses Symbio® 800 unit controls for efficient and reliable system integration. The use of a buffer tank is recommended; supplemental or dual-fuel heating can also be used as needed.



Electrified HVAC may be a new challenge, but Trane has you covered. Through our consultative services approach, we offer industry-based resources and design support, including Trane experts and pre-engineered system strategies. You can count on Trane to collaborate with you every step of the way from project initiation to post-installation maintenance.

To learn more, contact your local Trane office
or visit Trane.com/chiller-heater today.



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.

All trademarks referenced in this document are the trademarks of their respective owners.

© 2022 Trane. All Rights Reserved.

SYS-SLB033-EN
06/28/2022