



## XStream™ RTHF XSE Water-Cooled Chiller



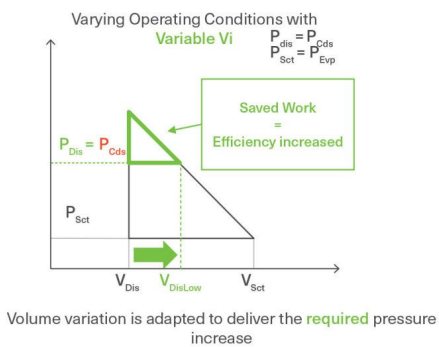
## XStream™ RTHF XSE Water-Cooled Chiller



**Cooling capacity: 2970-3640 kW**

**Heating capacity: -----**

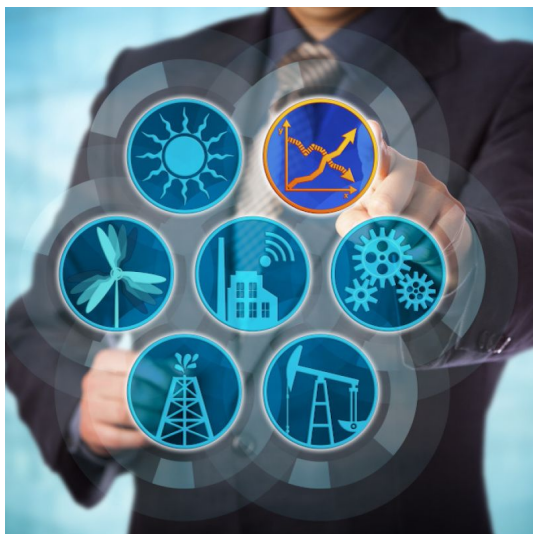
- Variable Vi compressor
- Market-leading full and part load efficiencies
- Minimized refrigerant charge with CHIL falling film evaporator
- High capacity units (3.0 to 3.7 MW)
- Trane Adaptive Control™: Tracer® Symbio™ 800 microprocessor system enhances chiller with the latest chiller control technology



## Outstanding energy efficiency

The latest Trane screw compressor with Variable Volume elevates part load efficiency one step ahead by using Variable Volume Index (Variable Vi):

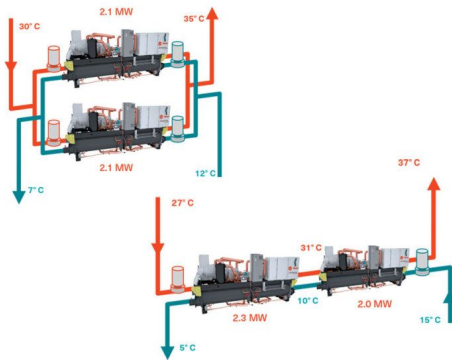
- Allows the chiller to operate at the most appropriate pressure ratio to reach remarkable efficiency levels.
- Increases part load efficiency (SEER) by 10% vs. the equivalent model at Fixed Vi.
- RTHF XSE can reach SEER's as high as 10.1.



## Proven Trane reliability

Trane XStream™ series chillers are capable of sustaining precise temperatures at extremely tight tolerances that are key to occupant comfort and crucial to many demanding mission-critical processes through:

- Design simplicity
- Unmatched direct drive compressor, low speed, semi-hermetic compressor with only three moving parts
- Infinite unloading for exact load matching
- Tracer AdaptiView™ controller with patented algorithms anticipate and correct situations to keep the chiller online
- Extensive factory testing available to verify operation at customer-defined conditions



## Multiple chiller plant design

The overall RTWF unit efficiency can be enhanced by using the Series counterflow design, an alternative chiller layout to the conventional parallel piped configuration.

This layout provides the opportunity for:

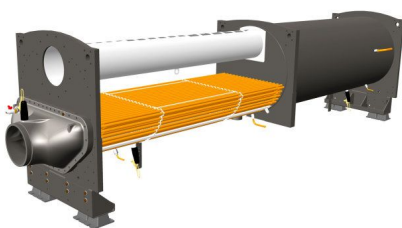
- Lower chilled water design temperature with larger  $\Delta T$
- Reduced design flow
- Installation and operational cost savings by using fewer installed pumps and valves, reduced pipe diameters and chiller downsizing
- Maximized system efficiency
- Continuous temperatures allow better stability of controls.

Combining series configuration with Variable Primary Flow (VPF) makes it possible to increase system efficiency even further.

## Variable Primary Flow (VPF) capabilities

VPF systems provide building owners with multiple cost savings derived directly from pump operation. The XStream series is designed to make VPF easy to use:

- The evaporator on the RTHF XStream series can run safely with up to 50% water flow reduction.
- The microprocessor and capacity control algorithms are designed to handle a maximum of 10% change in water flow rate per minute in order to maintain  $\pm 0.3^{\circ}\text{C}$  temperature control leaving the evaporator.
- For applications in which system energy savings are the priority and tight temperature control is classified as  $\pm 1.1^{\circ}\text{C}$ , up to 30% change in flow per minute is possible.
- With the help of a Trane analysis tool, you can determine whether the anticipated energy savings justify the use of VPF in a particular application.



## Range description

- Operating Conditions: Comfort and process cooling - From -12 to 20°C on the evaporator side and up to 48°C on the condenser side
- RTHF XSE packaged chillers are available in four different models.

## Technical specifications

<b>Cooling capacity</b>	2970-3640 kW
<b>Heating capacity</b>	-----
<b>Eurovent certification</b>	
<b>ErP Certification</b>	●
<b>Refrigerants</b>	R134a
<b>Operating mode</b>	Cooling only
<b>Energy saving</b>	Adaptive Frequency™ Drive
<b>Compressor</b>	Screw

## Product data

### RTHF XSE

	<b>P<sub>c</sub></b> (1) <b>kW</b>	<b>EER</b> (1)	<b>SEER</b> (2)	<b>LwO</b> (3) <b>dB(A)</b>	<b>L</b> (4) <b>mm</b>	<b>W</b> (4) <b>mm</b>	<b>H</b> (4) <b>mm</b>	<b>OW</b> (4) <b>kg</b>
<b>RTHF 855 XSE</b>	2972,0	5,55	10,13	103	5521	2305	2457	14360
<b>RTHF 905 XSE</b>	3188,0	5,27	9,88	109	5521	2305	2457	14470
<b>RTHF 945 XSE</b>	3407,0	5,06	9,70	110	5521	2305	2457	14590
<b>RTHF 995 XSE</b>	3633,0	4,79	9,50	111	5521	2305	2457	14590

P<sub>c</sub>: Cooling capacity

LwO: A-weighted sound power level outside

H: Height

EER: Energy Efficiency Ratio (cooling)

L: Length

OW : Operating Weight

SEER: Seasonal Energy Efficiency Ratio

W: Width

(1): Evaporator water temperature in/out 12/7°C - Condenser water temperature in/out 30/35°C (EN 14511:2022)

(2): Ecodesign rating for comfort chillers. Source water temperature in/out 30/35°C and evaporator water temperature in/out 12/7°C. SEER/η<sub>s,c</sub> as defined in REGULATION (EU) N° 2016/2281 of 20 December 2016

(3): According ISO 9614:2009. Eurovent conditions, with 1pW reference sound power (without accessories)

(4): Basic unit without accessories

## Improve Operations

Technology is continuously evolving and Trane Engineering is ahead of the curve in bringing innovation into product development. Our sustainable solutions deliver enhancements to the Trane installed base to make your chillers and heat pumps even "better than before". That's Trane Building Advantage - TBA.

## Trane Rental Services

Cooling and heating are services, not products. A process or a building does not need a chiller or a boiler sitting on a roof, but a reliable and efficiency supply of cold or hot water, cold or warm air. This is the essence of what we do at Trane Rental Services. Let us take care of it for you.



**Read more <https://trane.eu/rental>**

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.



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.eu](https://trane.eu) or [tranetechnologies.com](https://tranetechnologies.com).