



XStream™ RTHF Water-Cooled Chiller





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**Cooling capacity: 750-3670 kW**

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

- Market-leading reliability with Trane's renowned, robust screw compressor technology
- Minimized refrigerant charge with Trane patented CHIL falling film evaporator
- Series counterflow heat exchanger design
- Extended and unmatched capacities
- Trane Adaptive Control™: Tracer® Symbio™ 800 microprocessor system enhances chiller with the latest chiller control technology



## Outstanding energy efficiency

The Trane XStream™ series design has been driven by our commitment to achieve the lowest energy consumption in the most demanding applications. Exceptional efficiency keeps your operating costs and environmental impact low while smart and easy to use controls ensure you get the best out of your system. Units deliver market-leading part load and full load efficiency performance.

Trane's patented Compact, High Performance, Integrated design, Low Charge (CHIL) flooded evaporator allows for:

- Reduced refrigerant volume
- Increased efficiency
- Reduced carbon footprint

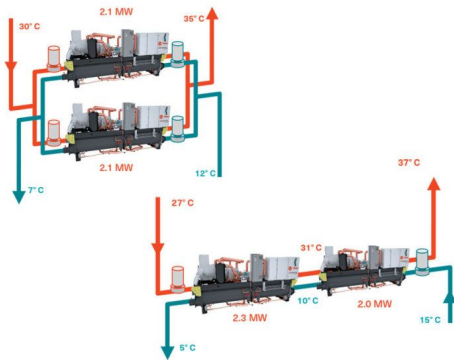


## Extreme versatility

Whether you have seasonal comfort requirements or a sensitive industrial application there is a model from the XStream range that will satisfy your needs.

For even greater system efficiency, Trane XStream units are fully compatible with:

- Multiple compressor design
- Series chiller arrangements
- Variable Primary Flow (VPF) applications
- Screw Compressors with Variable Volume Index (Variable Vi)



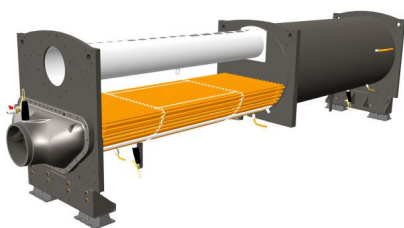
## Multiple chiller plant design

The overall RTHF 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 50°C on the condenser side
- RTHF packaged chillers are available in 56 different models with two refrigerants and two levels of efficiency: XE: Extra High Efficiency, HSE (With AFD): High seasonal efficiency.
- RTHF G: R1234ze — RTHF: R134a

## Technical specifications

<b>Cooling capacity</b>	750-3670 kW
<b>Heating capacity</b>	-----
<b>Eurovent certification</b>	●
<b>ErP Certification</b>	●
<b>Refrigerants</b>	R1234ze   R513A   R134a
<b>Operating mode</b>	Cooling only
<b>Energy saving</b>	Adaptive Frequency™ Drive
<b>Compressor</b>	Screw



## Product data

### RTHF

	Pc (1) kW	EER (1)	SEER (2)	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
<b>RTHF 330 XE</b>	1155,5	5,97	7,53	97	4586	1784	2100	7350
<b>RTHF 360 XE</b>	1268,5	5,84	7,40	97	4586	1784	2100	7450
<b>RTHF 410 XE</b>	1467,1	5,83	7,35	98	4586	1784	2100	7450
<b>RTHF 460 XE</b>	1583,7	5,81	7,30	98	4585	1840	2395	8590
<b>RTHF 500 XE</b>	1777,3	5,76	7,43	99	4585	1840	2395	8590
<b>RTHF 540 XE</b>	1897,3	5,77	7,53	99	4585	1840	2395	9630
<b>RTHF 600 XE</b>	2248,9	6,03	7,88	102	5250	2090	2455	9680
<b>RTHF 650 XE</b>	2109,1	6,21	8,03	103	5250	2090	2455	13380
<b>RTHF 700 XE</b>	2509,4	6,15	8,00	103	5520	2090	2455	13380
<b>RTHF 750 XE</b>	2644,4	6,02	7,60	103	5520	2090	2455	13380
<b>RTHF 800 XE</b>	2824,8	5,88	7,55	103	5520	2090	2455	13490
<b>RTHF 840 XE</b>	3007,9	5,77	7,35	103	5520	2090	2455	13610
<b>RTHF 330 HSE</b>	1153,2	5,81	8,73	97	4586	1884	2100	7520
<b>RTHF 360 HSE</b>	1267,0	5,71	8,73	97	4586	1884	2100	7620
<b>RTHF 410 HSE</b>	1466,0	5,72	8,70	98	4586	1884	2230	8820
<b>RTHF 460 HSE</b>	1581,1	5,69	8,83	98	4585	1940	2395	8820
<b>RTHF 500 HSE</b>	1771,7	5,66	8,88	99	4585	1940	2395	9920
<b>RTHF 540 HSE</b>	1890,7	5,65	9,05	99	4585	1940	2395	9970
<b>RTHF 590 HSE</b>	2083,4	5,48	8,88	102	4585	1940	2395	9970
<b>RTHF 600 HSE</b>	2104,0	6,09	9,63	104	5250	2090	2455	9970
<b>RTHF 640 HSE</b>	2270,6	5,30	8,73	102	4585	1940	2395	13440
<b>RTHF 650 HSE</b>	2238,9	5,90	9,43	103	5250	2090	2455	13740
<b>RTHF 700 HSE</b>	2499,2	6,03	9,45	103	5520	2090	2455	13740
<b>RTHF 750 HSE</b>	2635,3	5,91	9,35	103	5520	2090	2455	13740
<b>RTHF 800 HSE</b>	2815,0	5,78	9,28	103	5520	2090	2455	13850
<b>RTHF 840 HSE</b>	2995,1	5,66	9,13	103	5520	2090	2455	13970
<b>RTHF 850 HSE</b>	2995,1	5,64	9,10	103	5520	2090	2455	14570
<b>RTHF 900 HSE</b>	3219,9	5,33	8,95	103	5520	2090	2455	14570
<b>RTHF 950 HSE</b>	3445,1	5,07	8,83	107	5520	2090	2455	14570
<b>RTHF K00 HSE</b>	3671,7	4,84	8,68	109	5520	2090	2455	14570

Pc: Cooling capacity  
LwO: A-weighted sound power level outside

EER: Energy Efficiency Ratio (cooling)  
L: Length

SEER: Seasonal Energy Efficiency Ratio  
W: Width

H: Height

OW : Operating Weight

(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

## RTHF G

	<b>P<sub>c</sub></b> (1) kW	<b>EER</b> (1)	<b>SEER</b> (2)	<b>LwO</b> (3) dB(A)	<b>L</b> (4) mm	<b>W</b> (4) mm	<b>H</b> (4) mm	<b>OW</b> (4) kg
<b>RTHF 250 XE G</b>	852,4	5,79	7,25	97	4600	1840	2395	7508
<b>RTHF 270 XE G</b>	941,7	5,77	7,13	97	4600	1840	2395	7560
<b>RTHF 305 XE G</b>	1086,0	5,74	7,15	98	4600	1840	2395	8745
<b>RTHF 335 XE G</b>	1168,4	5,70	7,25	98	4600	1840	2395	8745
<b>RTHF 370 XE G</b>	1310,9	5,66	7,06	98	4600	1840	2395	9679
<b>RTHF 400 XE G</b>	1398,2	5,66	7,17	98	4600	1840	2395	9679
<b>RTHF 445 XE G</b>	1579,5	6,26	7,69	102	5250	2110	2455	12881
<b>RTHF 490 XE G</b>	1685,8	6,18	7,23	103	5250	2110	2455	13356
<b>RTHF 520 XE G</b>	1882,4	6,35	7,76	103	5250	2110	2455	13356
<b>RTHF 560 XE G</b>	1964,8	6,19	7,54	103	5250	2110	2455	13356
<b>RTHF 595 XE G</b>	2070,4	6,01	7,54	103	5250	2110	2455	13456
<b>RTHF 630 XE G</b>	2177,7	5,87	7,39	103	5250	2110	2455	13566
<b>RTHF 270 HSE G</b>	926,8	5,53	7,38	97	4600	1940	2395	7730
<b>RTHF 295 HSE G</b>	1015,5	5,31	7,36	100	4600	1940	2395	7720
<b>RTHF 320 HSE G</b>	1103,0	5,15	7,29	102	4600	1940	2395	7720
<b>RTHF 355 HSE G</b>	1210,3	4,87	7,23	105	4600	1940	2395	7720
<b>RTHF 405 HSE G</b>	1393,5	5,21	7,99	102	4600	1940	2395	8960
<b>RTHF 440 HSE G</b>	1520,0	5,26	8,08	100	4600	1940	2395	9959
<b>RTHF 480 HSE G</b>	1653,4	5,09	7,98	102	4600	1940	2395	9959
<b>RTHF 535 HSE G</b>	1805,7	4,76	7,87	106	4600	1940	2395	9959
<b>RTHF 560 HSE G</b>	1966,2	6,22	8,15	103	5250	2110	2455	13676
<b>RTHF 595 HSE G</b>	2109,8	6,07	8,11	103	5250	2110	2455	13816
<b>RTHF 630 HSE G</b>	2253,6	5,93	8,08	103	5250	2110	2455	13926
<b>RTHF 680 HSE G</b>	2413,0	5,60	8,29	106	5520	2090	2455	13926
<b>RTHF 720 HSE G</b>	2585,0	5,36	8,10	107	5520	2090	2455	13926
<b>RTHF 780 HSE G</b>	2755,0	5,15	8,02	109	5520	2090	2455	13926

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(4): Basic unit without accessories

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## 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).