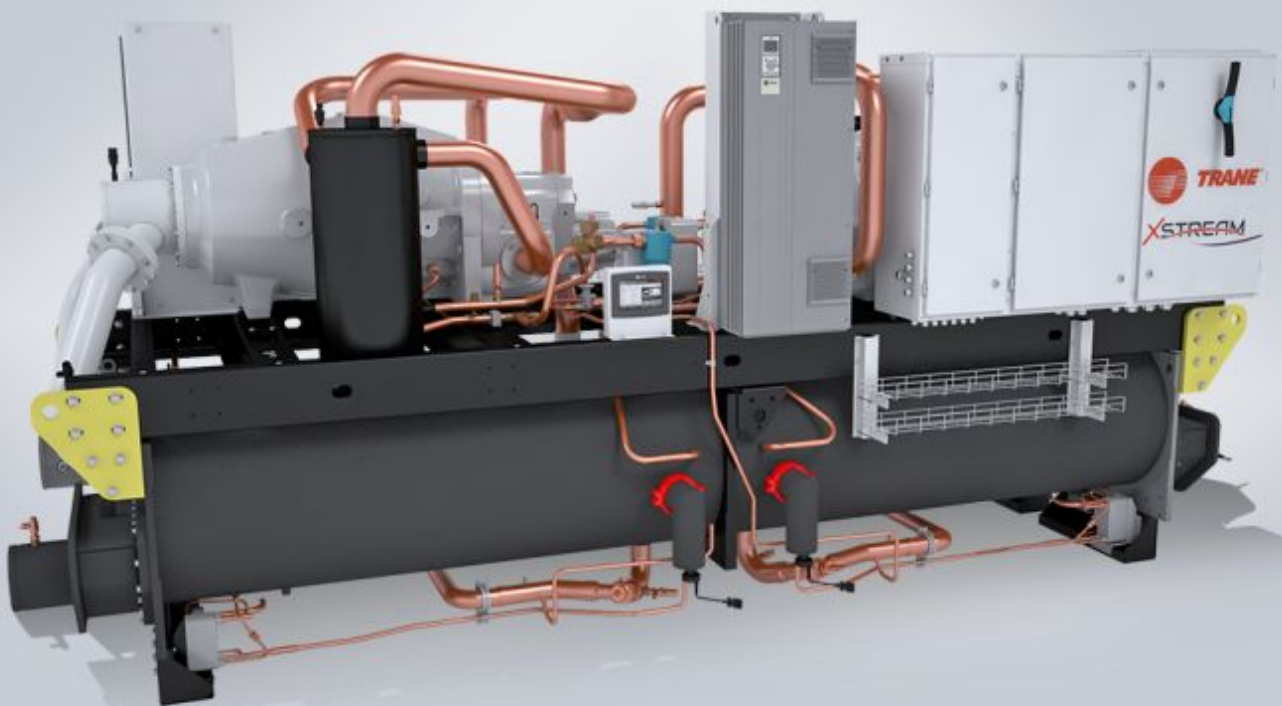




XStream™ RTHF Water-Cooled Chiller

Cooling capacity: 750-3670 kW



TRANE
TECHNOLOGIES

At a Glance:

- 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:

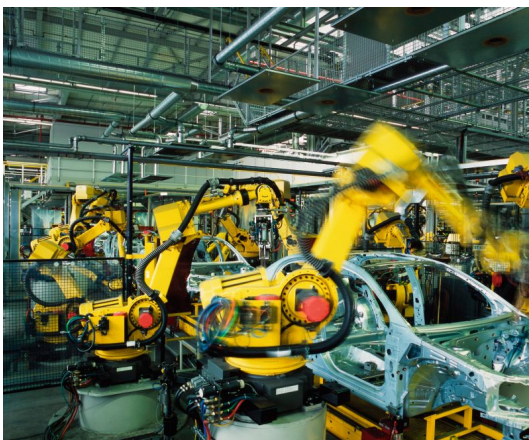
- Reduced refrigerant volume
- Increased efficiency
- Reduced carbon footprint

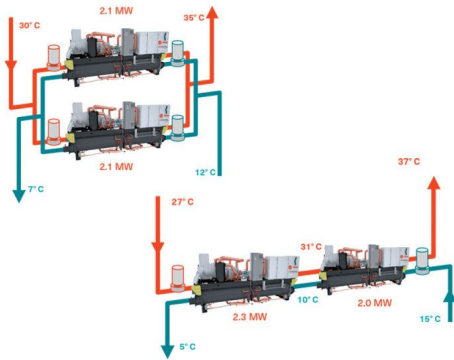
Extreme versatility

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

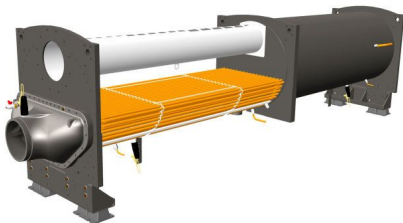
The overall RTHF unit efficiency can be enhanced by using the Series counterflow design, an alternative chiller layout to the conventional parallel piped configuration.

This layout provides the opportunity for:

- Lower chilled water design temperature with larger ΔT
- 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

Unit type	Water-to-water
Operating mode	Cooling only
Cooling capacity	750-3670 kW
Heating capacity	-----
Eurovent certification	
ErP Certification	
Refrigerants	R1234ze R513A R134a
Energy saving	Adaptive Frequency™ Drive
Compressor	Screw
Data protocols	Lonmark Bacnet Modbus

RTHF

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

Pc: 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_{s,c} 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

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

P_c: Cooling capacity

LwO: A-weighted sound power level outside

H: Height

EER: Energy Efficiency Ratio (cooling)

L: Length

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(4): Basic unit without accessories

Trane, leaders in HVAC technology, services and energy solutions.

Our mission is to get it right for our customers and the climate.

Innovative thermal management systems

For all commercial and industrial applications, we offer a broad portfolio of HVAC solutions including heat pumps, chillers, multi-pipe units, packaged rooftops, air handling units and water terminals.

Partner with Trane



Lifecycle Management

From start-up services to full turn-key solutions, all the way to disposal and recycling.



Modernize and optimize

A wide array of solutions to ensure your HVAC equipment is always running at its peak performance, including technology upgrades.



Digital Services

Avoid unexpected cost and downtime thanks to Trane's connected service agreements.



Rental Services

An extensive and modern fleet, for short and long-term rental. Contact our experts for a quote:
rent-trane.com

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



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.eu or tranetechnologies.com.

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