



**TRANE**



# XStream™ RTWF Water-Cooled Chiller



**TRANE**  
TECHNOLOGIES

## XStream™ RTWF Water-Cooled Chiller



**Cooling capacity: 350-1860 kW**

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

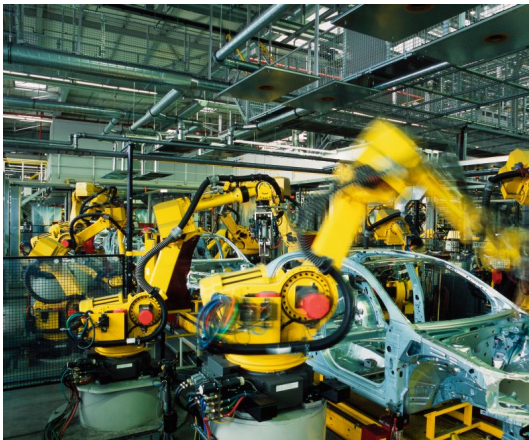
- Market-leading reliability with Trane's renowned, robust screw compressor technology
- Minimized refrigerant charge with Trane patented CHIL falling film evaporator
- Series counterflow heat exchanger design
- Extended and unmatched capacities
- Trane Adaptive Control™: Tracer® Symbio™ 800 microprocessor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

- Reduced refrigerant volume
- Increased efficiency
- Reduced carbon footprint

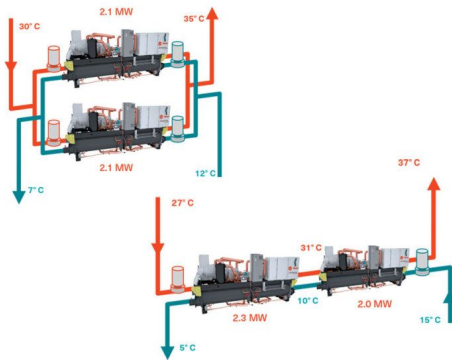


## Extreme versatility

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)



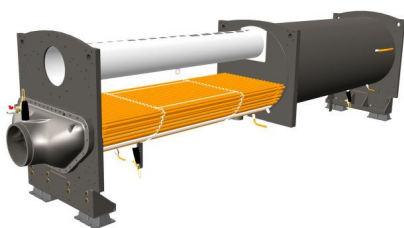
## Multiple chiller plant design

The overall 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 RTWF 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 28°C (20°C with R134a and R513A) on the evaporator side and up to 85°C (68°C with R134a and R513A) on the condenser side
- RTWF packaged chillers are available in 81 different models with three refrigerants and three levels of efficiency: SE: Standard Efficiency, HE: High Efficiency, HSE (With AFD): High seasonal efficiency.
- RTWF G: R1234ze — RTWF: R134a/R513A

## Technical specifications

<b>Cooling capacity</b>	350-1860 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   Heat pump
<b>Energy saving</b>	Adaptive Frequency™ Drive
<b>Compressor</b>	Screw

## Product data

### RTWF - Cooling

	Pc (1) kW	EER (1)	SEER (2)	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
RTWF 100 SE	368,0	5,18	6,83	99	3080	1190	1900	2622
RTWF 120 SE	417,0	5,11	6,85	99	3080	1190	1900	2641
RTWF 140 SE	487,0	5,02	6,90	96	3080	1190	1900	3048
RTWF 150 SE	544,0	5,15	6,93	96	3080	1190	1935	3194
RTWF 170 SE	591,0	5,20	7,03	96	3080	1190	1935	3215
RTWF 180 SE	646,0	5,14	7,03	99	3160	1225	1935	3456
RTWF 190 SE	702,0	4,98	7,00	101	3160	1250	2035	3783
RTWF 210 SE	777,0	5,03	6,95	101	3160	1250	2035	3884
RTWF 230 SE	845,0	5,01	6,88	101	3160	1250	2080	3988
RTWF 275 SE	939,0	4,88	6,90	100	4758	1668	2034	5276
RTWF 290 SE	983,0	4,86	6,88	100	4758	1668	2034	5273
RTWF 310 SE	1043,0	4,88	6,78	101	4784	1668	2034	5456
RTWF 330 SE	1112,0	4,88	6,95	101	4784	1668	2034	5511
RTWF 370 SE	1250,0	4,83	6,90	101	4784	1668	2034	5574
RTWF 410 SE	1397,0	4,90	7,38	102	4774	1766	2137	6945
RTWF 450 SE	1537,0	4,88	7,43	102	4775	1825	2135	7025
RTWF 490 SE	1676,0	4,89	7,33	102	4775	1825	2135	7109
RTWF 100 HE	371,0	5,33	6,93	99	3080	1190	1900	2696
RTWF 120 HE	429,0	5,35	7,03	99	3080	1190	1935	2819
RTWF 140 HE	499,0	5,21	7,10	96	3080	1190	1935	3196
RTWF 150 HE	552,0	5,36	7,13	96	3160	1215	2055	3490
RTWF 170 HE	600,0	5,43	7,20	96	3160	1215	2055	3564
RTWF 180 HE	658,0	5,32	7,23	99	3160	1250	2080	3790
RTWF 190 HE	716,0	5,18	7,13	101	3160	1250	2080	3969
RTWF 210 HE	787,0	5,21	7,03	101	3160	1250	2080	4139
RTWF 230 HE	854,0	5,12	6,93	101	3160	1250	2080	4139
RTWF 275 HE	957,0	5,26	7,33	100	4758	1668	2034	5687
RTWF 290 HE	1003,0	5,26	7,30	100	4758	1668	2034	5683
RTWF 310 HE	1066,0	5,24	7,15	101	4784	1668	2034	5886
RTWF 330 HE	1134,0	5,24	7,28	101	4784	1668	2034	5950
RTWF 370 HE	1267,0	5,22	7,20	101	4784	1668	2034	6123
RTWF 410 HE	1423,0	5,29	7,75	102	4774	1766	2137	7446

<b>RTWF 450 HE</b>	1563,0	5,23	7,68	102	4775	1825	2135	7571
<b>RTWF 490 HE</b>	1706,0	5,23	7,53	102	4775	1825	2135	7694
<b>RTWF 100 HSE</b>	374,0	5,24	6,95	99	3080	1260	1900	2796
<b>RTWF 120 HSE</b>	432,0	5,28	7,15	99	3080	1260	1935	2919
<b>RTWF 140 HSE</b>	501,0	5,18	7,20	96	3080	1260	1935	3296
<b>RTWF 150 HSE</b>	555,0	5,32	7,25	96	3160	1285	2055	3590
<b>RTWF 170 HSE</b>	603,0	5,40	7,33	96	3160	1285	2055	3670
<b>RTWF 180 HSE</b>	658,0	5,21	7,33	99	3160	1380	2080	3890
<b>RTWF 190 HSE</b>	716,0	5,09	7,20	101	3160	1380	2080	4069
<b>RTWF 210 HSE</b>	782,0	5,10	7,10	101	3160	1380	2080	4239
<b>RTWF 230 HSE</b>	849,0	5,02	7,18	101	3160	1380	2080	4239
<b>RTWF 250 HSE</b>	930,0	4,85	7,13	103	3160	1380	2080	4239
<b>RTWF 275 HSE</b>	959,0	5,17	7,33	100	4758	1668	2034	5862
<b>RTWF 290 HSE</b>	1005,0	5,17	7,35	100	4758	1668	2034	5858
<b>RTWF 310 HSE</b>	1066,0	5,12	7,53	101	4784	1668	2034	6100
<b>RTWF 330 HSE</b>	1134,0	5,12	7,48	101	4784	1668	2034	6164
<b>RTWF 370 HSE</b>	1258,0	5,10	7,48	101	4784	1668	2034	6337
<b>RTWF 410 HSE</b>	1423,0	5,19	7,58	102	4774	1766	2137	7660
<b>RTWF 450 HSE</b>	1563,0	5,15	7,40	102	4775	1825	2135	7785
<b>RTWF 490 HSE</b>	1697,0	5,14	7,38	102	4775	1825	2135	7908
<b>RTWF 515 HSE</b>	1859,0	4,95	7,33	107	4775	1825	2135	7907

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<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

## RTWF G - Cooling

	<b>Pc</b>	<b>EER</b>	<b>SEER</b>	<b>LwO</b>	<b>L</b>	<b>W</b>	<b>H</b>	<b>OW</b>
	(1)	(1)	(2)	(3)	(4)	(4)	(4)	(4)
	<b>kW</b>			<b>dB(A)</b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg</b>
<b>RTWF095SE</b>	358,0	4,88	6,75	96	3080	1190	1900	2959
<b>RTWF105SE</b>	389,0	4,80	6,75	96	3080	1190	1900	2959
<b>RTWF125SE</b>	471,0	4,71	6,48	95	3160	1225	1935	3128
<b>RTWF135SE</b>	515,0	4,52	6,45	93	3160	1225	1935	3164
<b>RTWF155SE</b>	555,0	4,56	6,55	93	3160	1250	2035	3452

<b>RTWF165SE</b>	618,0	4,66	6,68	93	3160	1250	2080	3579
<b>RTWF220SE</b>	815,0	4,92	6,23	96	4784	1727	2032	5135
<b>RTWF240SE</b>	867,0	4,94	6,35	96	4784	1727	2032	5228
<b>RTWF280SE</b>	952,0	4,90	6,30	96	4784	1727	2032	5373
<b>RTWF300SE</b>	1087,0	4,87	7,03	97	4784	1823	2135	6554
<b>RTWF320SE</b>	1169,0	4,79	6,98	97	4784	1823	2135	6676
<b>RTWF360SE</b>	1268,0	4,85	7,13	97	4784	1823	2135	6885
<b>RTWF095HE</b>	369,0	5,18	6,73	96	3080	1190	1935	3176
<b>RTWF105HE</b>	402,0	5,14	6,75	96	3080	1190	1935	3176
<b>RTWF125HE</b>	485,0	4,99	6,75	95	3160	1225	1935	3271
<b>RTWF135HE</b>	532,0	4,81	6,73	93	3160	1225	1935	3307
<b>RTWF155HE</b>	580,0	4,88	6,83	93	3160	1250	2035	3622
<b>RTWF165HE</b>	633,0	4,99	7,03	93	3160	1250	2080	3796
<b>RTWF220HE</b>	823,0	5,17	6,65	96	4784	1727	2032	5517
<b>RTWF240HE</b>	876,0	5,21	6,78	96	4784	1727	2032	5610
<b>RTWF280HE</b>	963,0	5,20	6,55	96	4784	1727	2032	5804
<b>RTWF300HE</b>	1099,0	5,18	7,23	97	4784	1823	2135	7007
<b>RTWF320HE</b>	1184,0	5,12	7,20	97	4784	1823	2135	7129
<b>RTWF360HE</b>	1284,0	5,17	7,40	97	4784	1823	2135	7353
<b>RTWF095 HSE</b>	369,0	5,05	6,93	96	3080	1260	1935	3276
<b>RTWF105 HSE</b>	402,0	5,09	7,13	96	3080	1260	1935	3276
<b>RTWF125 HSE</b>	482,0	4,99	6,88	95	3160	1350	1935	3371
<b>RTWF135 HSE</b>	529,0	4,81	6,75	93	3160	1350	1935	3407
<b>RTWF155 HSE</b>	580,0	4,84	7,05	93	3160	1380	2035	3722
<b>RTWF165 HSE</b>	633,0	4,95	7,08	93	3160	1380	2080	3896
<b>RTWF185 HSE</b>	690,0	4,85	6,83	95	3160	1380	2080	4025
<b>RTWF220 HSE</b>	816,0	5,17	7,00	96	4784	1727	2032	5731
<b>RTWF240 HSE</b>	869,0	5,21	7,00	96	4784	1727	2032	5824
<b>RTWF280 HSE</b>	962,0	5,14	7,40	96	4784	1727	2032	6018
<b>RTWF300 HSE</b>	1092,0	5,18	7,18	97	4784	1823	2135	7221
<b>RTWF320 HSE</b>	1177,0	5,12	7,15	97	4784	1823	2135	7343
<b>RTWF360 HSE</b>	1283,0	5,13	7,30	97	4784	1823	2135	7567
<b>RTWF380 HSE</b>	1387,0	4,90	7,15	99	4784	1823	2135	7567

Pc: Cooling capacity

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H: Height

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(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).