



XStream™ RTWF Water-Cooled Chiller

Cooling capacity: 350-1860 kW



TRANE
TECHNOLOGIES

- 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

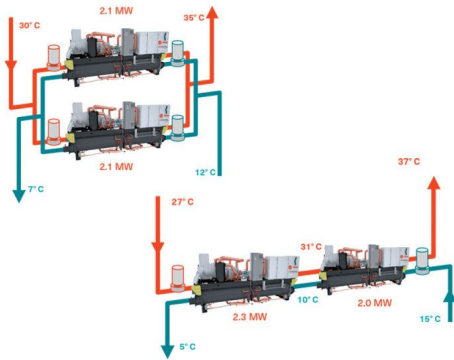


Units deliver market-leading part load and full load efficiency performance.

- ## Extreme versatility

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

-



Multiple chiller plant design

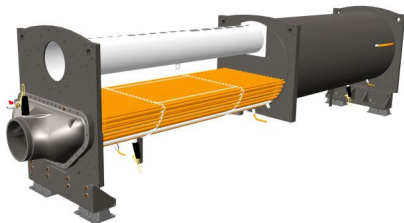
The overall RTWF unit efficiency can be enhanced by using the Series counterflow design, an alternative chiller layout to the conventional parallel piped configuration.

This layout provides the opportunity for:

- Lower chilled water design temperature with larger 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 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

Unit type	Water-to-water
Operating mode	Cooling only Heat pump
Cooling capacity	350-1860 kW
Heating capacity	-----
Eurovent certification	
ErP Certification	
Refrigerants	R1234ze R513A R134a
Energy saving	Adaptive Frequency™ Drive
Compressor	Screw
Data protocols	Lonmark Bacnet Modbus

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
RTWF 450 HE	1563,0	5,23	7,68	102	4775	1825	2135	7571
RTWF 490 HE	1706,0	5,23	7,53	102	4775	1825	2135	7694
RTWF 100 HSE	374,0	5,24	6,95	99	3080	1260	1900	2796
RTWF 120 HSE	432,0	5,28	7,15	99	3080	1260	1935	2919
RTWF 140 HSE	501,0	5,18	7,20	96	3080	1260	1935	3296

RTWF 150 HSE	555,0	5,32	7,25	96	3160	1285	2055	3590
RTWF 170 HSE	603,0	5,40	7,33	96	3160	1285	2055	3670
RTWF 180 HSE	658,0	5,21	7,33	99	3160	1380	2080	3890
RTWF 190 HSE	716,0	5,09	7,20	101	3160	1380	2080	4069
RTWF 210 HSE	782,0	5,10	7,10	101	3160	1380	2080	4239
RTWF 230 HSE	849,0	5,02	7,18	101	3160	1380	2080	4239
RTWF 250 HSE	930,0	4,85	7,13	103	3160	1380	2080	4239
RTWF 275 HSE	959,0	5,17	7,33	100	4758	1668	2034	5862
RTWF 290 HSE	1005,0	5,17	7,35	100	4758	1668	2034	5858
RTWF 310 HSE	1066,0	5,12	7,53	101	4784	1668	2034	6100
RTWF 330 HSE	1134,0	5,12	7,48	101	4784	1668	2034	6164
RTWF 370 HSE	1258,0	5,10	7,48	101	4784	1668	2034	6337
RTWF 410 HSE	1423,0	5,19	7,58	102	4774	1766	2137	7660
RTWF 450 HSE	1563,0	5,15	7,40	102	4775	1825	2135	7785
RTWF 490 HSE	1697,0	5,14	7,38	102	4775	1825	2135	7908
RTWF 515 HSE	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_{s,c} as defined in REGULATION (EU) N° 2016/2281 of 20 December 2016

(3): Evaporator water temperature in/out 10/7°C - Condenser water temperature in/out 40/45°C

(4): Ecodesign rating at low temperature conditions. Source water temperature in/out 10/7°C and hot water temperature in/out 30/35°C. SCOP / η_{s,h} as defined in REGULATION (EU) N° 813/2013 of 2 August 2013

(5): According to ISO 9614:2009, without accessories

(6): Basic unit without accessories

RTWF G - 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 095 SE G	358,0	4,88	6,75	96	3080	1190	1900	2959
RTWF 105 SE G	389,0	4,80	6,75	96	3080	1190	1900	2959
RTWF 125 SE G	471,0	4,71	6,48	95	3160	1225	1935	3128
RTWF 135 SE G	515,0	4,52	6,45	93	3160	1225	1935	3164
RTWF 155 SE G	555,0	4,56	6,55	93	3160	1250	2035	3452
RTWF 165 SE G	618,0	4,66	6,68	93	3160	1250	2080	3579
RTWF 220 SE G	815,0	4,92	6,23	96	4784	1727	2032	5135
RTWF 240 SE G	867,0	4,94	6,35	96	4784	1727	2032	5228
RTWF 280 SE G	952,0	4,90	6,30	96	4784	1727	2032	5373
RTWF 300 SE G	1087,0	4,87	7,03	97	4784	1823	2135	6554
RTWF 320 SE G	1169,0	4,79	6,98	97	4784	1823	2135	6676
RTWF 360 SE G	1268,0	4,85	7,13	97	4784	1823	2135	6885
RTWF 095 HE G	369,0	5,18	6,73	96	3080	1190	1935	3176

RTWF 105 HE G	402,0	5,14	6,75	96	3080	1190	1935	3176
RTWF 125 HE G	485,0	4,99	6,75	95	3160	1225	1935	3271
RTWF 135 HE G	532,0	4,81	6,73	93	3160	1225	1935	3307
RTWF 155 HE G	580,0	4,88	6,83	93	3160	1250	2035	3622
RTWF 165 HE G	633,0	4,99	7,03	93	3160	1250	2080	3796
RTWF 220 HE G	823,0	5,17	6,65	96	4784	1727	2032	5517
RTWF 240 HE G	876,0	5,21	6,78	96	4784	1727	2032	5610
RTWF 280 HE G	963,0	5,20	6,55	96	4784	1727	2032	5804
RTWF 300 HE G	1099,0	5,18	7,23	97	4784	1823	2135	7007
RTWF 320 HE G	1184,0	5,12	7,20	97	4784	1823	2135	7129
RTWF 360 HE G	1284,0	5,17	7,40	97	4784	1823	2135	7353
RTWF 095 HSE G	369,0	5,05	6,93	96	3080	1260	1935	3276
RTWF 105 HSE G	402,0	5,09	7,13	96	3080	1260	1935	3276
RTWF 125 HSE G	482,0	4,99	6,88	95	3160	1350	1935	3371
RTWF 135 HSE G	529,0	4,81	6,75	93	3160	1350	1935	3407
RTWF 155 HSE G	580,0	4,84	7,05	93	3160	1380	2035	3722
RTWF 165 HSE G	633,0	4,95	7,08	93	3160	1380	2080	3896
RTWF 185 HSE G	690,0	4,85	6,83	95	3160	1380	2080	4025
RTWF 220 HSE G	816,0	5,17	7,00	96	4784	1727	2032	5731
RTWF 240 HSE G	869,0	5,21	7,00	96	4784	1727	2032	5824
RTWF 280 HSE G	962,0	5,14	7,40	96	4784	1727	2032	6018
RTWF 300 HSE G	1092,0	5,18	7,18	97	4784	1823	2135	7221
RTWF 320 HSE G	1177,0	5,12	7,15	97	4784	1823	2135	7343
RTWF 360 HSE G	1283,0	5,13	7,30	97	4784	1823	2135	7567
RTWF 380 HSE G	1387,0	4,90	7,15	99	4784	1823	2135	7567

Pc: Cooling capacity

LwO: A-weighted sound power level outside

H: Height

EER: Energy Efficiency Ratio (cooling)

L: Length

OW : Operating Weight

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(5): According to ISO 9614:2009, without accessories

(6): 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.



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



TRANE

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