XStream™ RTWF Water-to-Water Heat Pump

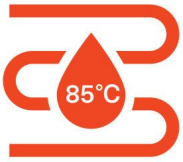
TRANE
TECHNOLOGIES

XStream™ RTWF Water-to-Water Heat Pump

Cooling capacity: 350-1860 kW | **Heating capacity: 385-2020 kW**

- 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
- Application flexibility: High leaving water temperature up to 85°C (68°C with R134a)
- Trane Adaptive Control™: Tracer® Symbio™ 800 microprocessor system enhances chiller with the latest chiller control technology

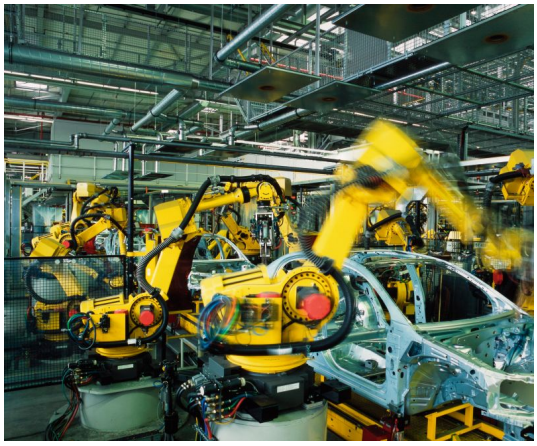
High condensing water temperatures of up to 85°C.



Unique and innovative sustainability features

Trane XStream heat pumps are a smart alternative to traditional boilers with features to effectively address the needs of geothermal and district heating applications:

- Compressors specially designed for high temperature applications
- Large capacities up to 2020 kW (at Eurovent Air Conditioning heating conditions)
- High condensing water temperatures of up to 85°C (RTWF G) allowing operation as a high temperature heat pump or a high condensing temperature cooling system.
- High performance up to 4.8 COP (at Eurovent Air Conditioning heating conditions)
- Operates down to 10% part load requirements.

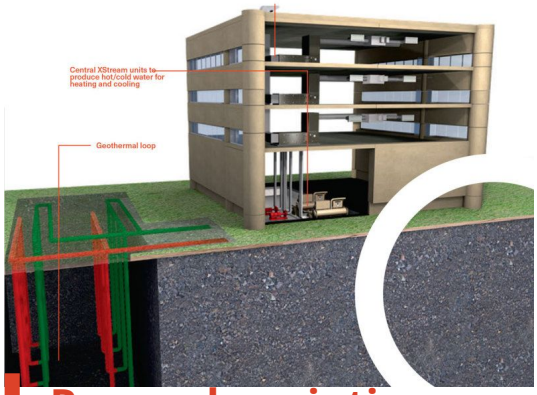


Extreme versatility

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)



Geothermal applications

The technologies built into Trane's XStream series heat pumps make them ideally suited to geothermal applications.

Range description

- Heating: 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 efficiency levels: SE: Standard Efficiency, HE: High Efficiency, HSE (With AFD): High seasonal efficiency.
- RTWF G: R1234ze — RTWF: R134a/R513A

Technical specifications

Cooling capacity	350-1860 kW
Heating capacity	385-2020 kW
Eurovent certification	●
ErP Certification	●
Refrigerants	R1234ze | R513A | R134a
Operating mode	Cooling only | Heat pump
Energy saving	Adaptive Frequency™ Drive
Compressor	Screw

Product data

RTWF G - Heat pump

	Pc (1) kW	EER (1)	SEER (2)	Ph (3) kW	COP (3)	Ph (4) kW	COP (4)	SCOP (4)	LwO (5) dB(A)	L (6) mm	W (6) mm	H (6) mm	OW (6) kg
RTWF 95 SE G	343,0	4,34	5,78	394,9	4,30	373,1	3,59	373,10	96	3080	1190	1900	2959
RTWF 105 SE G	374,0	4,32	5,85	432,2	4,27	408,3	3,57	408,30	96	3080	1190	1900	2959
RTWF 125 SE G	449,0	4,50	6,33	509,4	4,37	482,4	3,66	482,40	95	3160	1225	1935	3128
RTWF 135 SE G	480,0	4,53	6,33	544,6	4,37	516,2	3,67	516,00	93	3160	1225	1935	3164
RTWF 155 SE G	524,0	4,54	6,50	594,7	4,37	565,3	3,67	565,00	93	3160	1250	2035	3452
RTWF 165 SE G	582,0	4,67	6,65	662,5	4,47	627,3	3,74	627,00	93	3160	1250	2080	3579
RTWF 220 SE G	755,0	4,93	6,33	837,1	4,72	789,1	3,93	789,00	96	4784	1727	2032	5135
RTWF 240 SE G	810,0	4,92	6,50	897,7	4,73	846,0	3,93	846,00	96	4784	1727	2032	5228
RTWF 280 SE G	903,0	4,88	6,33	1002,1	4,69	944,4	3,91	944,40	96	4784	1727	2032	5373
RTWF 300 SE G	1011,0	4,92	6,68	1121,0	4,71	1057,2	3,92	1057,00	97	4784	1823	2135	6554
RTWF 320 SE G	1102,0	4,85	6,78	1224,8	4,65	1155,7	3,87	1156,00	97	4784	1823	2135	6676
RTWF 360 SE G	1207,0	4,86	6,88	1339,8	4,68	1263,3	3,89	1263,30	97	4784	1823	2135	6885
RTWF 95 HE G	356,0	4,55	5,93	401,6	4,49	378,4	3,71	378,40	96	3080	1190	1935	3176
RTWF 105 HE G	391,0	4,56	6,00	440,9	4,49	415,8	3,72	415,80	96	3080	1190	1935	3176
RTWF 125 HE G	461,0	4,70	6,45	517,6	4,58	488,1	3,79	488,10	95	3160	1225	1935	3271
RTWF 135 HE G	494,0	4,75	6,48	554,4	4,60	523,3	3,82	523,30	93	3160	1225	1935	3307
RTWF 155 HE G	545,0	4,78	6,68	610,0	4,64	576,6	3,84	576,60	93	3160	1250	2035	3622
RTWF 165 HE G	595,0	4,92	6,80	669,4	4,70	631,9	3,89	631,90	93	3160	1250	2080	3796
RTWF 220 HE G	762,0	5,04	6,53	842,1	4,80	789,1	3,94	789,10	96	4784	1727	2032	5517
RTWF 240 HE G	818,0	5,06	6,70	902,2	4,84	847,4	3,98	847,40	96	4784	1727	2032	5610
RTWF 280 HE G	913,0	5,02	6,60	1008,1	4,79	946,3	3,95	946,30	96	4784	1727	2032	5804
RTWF 300 HE G	1021,0	5,13	6,63	1123,6	4,88	1051,4	3,98	1051,40	97	4784	1823	2135	7007
RTWF 320 HE G	1114,0	5,08	6,73	1228,2	4,82	1153,9	3,96	1153,90	97	4784	1823	2135	7129
RTWF 360 HE G	1221,0	5,10	6,95	1343,2	4,86	1262,7	3,99	1262,70	97	4784	1823	2135	7353
RTWF 095 HSE G	356,0	4,54	5,75	400,3	4,47	376,3	3,67	376,30	96	3080	1260	1935	3276
RTWF 105 HSE G	392,0	4,53	5,63	440,7	4,45	414,8	3,67	414,80	96	3080	1260	1935	3276
RTWF 125 HSE G	461,0	4,63	5,93	517,8	4,54	488,2	3,76	488,20	95	3160	1350	1935	3371
RTWF 135 HSE G	495,0	4,69	5,98	554,6	4,57	523,4	3,79	523,40	93	3160	1350	1935	3407
RTWF 155 HSE G	548,0	4,73	6,03	613,9	4,56	580,1	3,76	580,10	93	3160	1380	2035	3722
RTWF 165 HSE G	598,0	4,87	6,15	673,3	4,62	635,5	3,81	635,50	93	3160	1380	2080	3896
RTWF 185 HSE G	646,0	4,74	6,13	732,1	4,58	691,8	3,79	691,80	95	3160	1380	2080	4025
RTWF 205 HSE G	695,0	4,60	6,08	793,6	4,48	750,3	3,72	750,30	97	3160	1380	2080	4025

RTWF 220 HSE G	763,0	5,00	6,48	841,3	4,79	787,6	3,93	787,60	96	4784	1727	2032	5731
RTWF 240 HSE G	818,0	5,05	6,50	900,9	4,85	845,2	3,98	845,20	96	4784	1727	2032	5824
RTWF 280 HSE G	917,0	5,00	6,40	1013,6	4,70	950,5	3,88	950,50	96	4784	1727	2032	6018
RTWF 300 HSE G	1021,0	5,10	6,45	1122,0	4,87	1049,1	3,98	1049,10	97	4784	1823	2135	7221
RTWF 320 HSE G	1114,0	5,06	6,58	1226,4	4,82	1151,3	3,96	1151,30	97	4784	1823	2135	7343
RTWF 360 HSE G	1226,0	5,09	6,78	1348,8	4,81	1267,4	3,94	1267,40	97	4784	1823	2135	7567
RTWF 380 HSE G	1325,0	4,92	6,70	1468,2	4,69	1386,0	3,91	1386,00	99	4784	1823	2135	7567
RTWF 420 HSE G	1435,0	4,82	6,60	1595,4	4,65	1506,7	3,87	1506,70	101	4784	1823	2135	7653

Pc: Cooling capacity
Ph: Heating capacity
LwO: A-weighted sound power level outside
H: Height
EER: Energy Efficiency Ratio (cooling)
COP: Coefficient Of Performance (heating)
L: Length
OW : Operating Weight
SEER: Seasonal Energy Efficiency Ratio
SCOP: Seasonal Coefficient Of Performance
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/ηs,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 medium temperature conditions. Source water temperature in/out 10/7°C and hot water temperature in/out 47/55°C. SCOP / ηs,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 - Heat pump

	Pc (1) kW	EER (1)	SEER (2)	Ph (3) kW	COP (3)	Ph (4) kW	COP (4)	SCOP (4)	LwO (5) dB(A)	L (6) mm	W (6) mm	H (6) mm	OW (6) kg
RTWF 100 SE	353,0	4,41	5,68	398,3	4,29	369,6	3,52	4,70	99	3080	1190	1900	2622
RTWF 120 SE	411,0	4,46	5,83	464,3	4,33	434,7	3,58	4,93	99	3080	1190	1900	2641
RTWF 140 SE	478,0	4,65	6,30	536,0	4,44	501,7	3,65	5,08	96	3080	1190	1900	3048
RTWF 150 SE	533,0	4,68	6,30	597,7	4,50	560,3	3,72	5,15	96	3080	1190	1935	3194
RTWF 170 SE	580,0	4,66	6,23	650,8	4,51	610,4	3,75	5,18	96	3080	1190	1935	3215
RTWF 180 SE	632,0	4,64	6,40	711,1	4,47	667,5	3,71	5,08	99	3160	1225	1935	3456
RTWF 190 SE	687,0	4,56	6,35	775,8	4,42	729,2	3,68	5,08	101	3160	1250	2035	3783
RTWF 210 SE	750,0	4,64	6,58	845,0	4,51	794,4	3,74	5,18	101	3160	1250	2035	3884
RTWF 230 SE	808,0	4,68	6,53	909,7	4,53	855,9	3,75	5,18	101	3160	1250	2080	3988
RTWF 275 SE	919,0	4,52	6,50	1034,3	4,39	968,6	3,64	5,15	100	4754	1727	2032	5276
RTWF 290 SE	963,0	4,48	6,48	1085,0	4,36	1016,5	3,63	5,13	100	4754	1727	2032	5273
RTWF 310 SE	1020,0	4,49	6,18	1148,2	4,37	1076,1	3,64	5,05	101	4784	1727	2032	5456
RTWF 330 SE	1079,0	4,53	6,38	1214,1	4,40	1139,0	3,67	5,13	101	4784	1727	2032	5511
RTWF 370 SE	1195,0	4,54	6,35	1345,4	4,42	1263,3	3,69	5,15	101	4784	1727	2032	5574
RTWF 410 SE	1367,0	4,51	6,40	1536,1	4,38	1438,9	3,65	5,23	102	4774	1823	2135	6945

RTWF 450 SE	1485,0	4,55	6,50	1668,2	4,42	1564,4	3,68	5,33	102	4774	1823	2135	7025
RTWF 490 SE	1602,0	4,59	6,63	1798,9	4,45	1688,7	3,71	5,33	102	4775	1825	2135	7109
RTWF 100 HE	355,0	4,49	5,65	399,6	4,37	370,9	3,56	4,73	99	3080	1190	1900	2696
RTWF 120 HE	422,0	4,61	6,13	473,5	4,49	443,0	3,68	4,98	99	3080	1190	1935	2819
RTWF 140 HE	489,0	4,78	6,50	545,8	4,57	511,0	3,74	5,10	96	3080	1190	1935	3196
RTWF 150 HE	541,0	4,82	6,55	602,9	4,66	565,1	3,81	5,18	96	3160	1215	2055	3490
RTWF 170 HE	588,0	4,82	6,53	655,9	4,67	615,1	3,84	5,20	96	3160	1215	2055	3564
RTWF 180 HE	637,0	4,87	6,80	711,1	4,73	669,6	3,90	5,35	99	3160	1250	2080	3790
RTWF 190 HE	686,0	4,89	6,78	767,2	4,77	724,5	3,95	5,40	101	3160	1250	2080	3969
RTWF 210 HE	752,0	4,93	6,93	840,3	4,80	792,7	3,96	5,38	101	3160	1250	2080	4139
RTWF 230 HE	815,0	4,98	6,98	908,8	4,83	856,5	3,99	5,48	101	3160	1250	2080	4139
RTWF 275 HE	936,0	4,77	6,50	1042,8	4,60	981,3	3,80	5,18	100	4754	1727	2032	5687
RTWF 290 HE	981,0	4,74	6,48	1094,3	4,58	1030,2	3,80	5,18	100	4754	1727	2032	5683
RTWF 310 HE	1041,0	4,73	6,40	1161,5	4,58	1092,9	3,80	5,13	101	4784	1727	2032	5886
RTWF 330 HE	1098,0	4,77	6,38	1224,8	4,60	1153,2	3,82	5,20	101	4784	1727	2032	5950
RTWF 370 HE	1210,0	4,82	6,35	1349,0	4,63	1263,9	3,81	5,18	101	4784	1727	2032	6123
RTWF 410 HE	1390,0	4,76	6,40	1546,9	4,59	1455,4	3,81	5,25	102	4774	1823	2135	7446
RTWF 450 HE	1508,0	4,79	6,48	1678,8	4,61	1580,8	3,83	5,35	102	4775	1825	2135	7571
RTWF 490 HE	1629,0	4,83	6,60	1812,1	4,66	1706,6	3,87	5,35	102	4775	1825	2135	7694
RTWF 100 HSE	359,0	4,41	5,35	405,3	4,32	376,6	3,50	4,68	99	3080	1260	1900	2796
RTWF 120 HSE	422,0	4,53	5,60	457,9	4,43	445,9	3,62	4,83	99	3080	1260	1935	2919
RTWF 140 HSE	489,0	4,76	6,15	546,0	4,54	511,6	3,71	5,10	96	3080	1260	1935	3296
RTWF 150 HSE	542,0	4,78	5,93	605,2	4,61	567,7	3,78	5,10	96	3160	1285	2055	3590
RTWF 170 HSE	589,0	4,78	5,93	658,2	4,63	617,8	3,81	5,13	96	3160	1285	2055	3670
RTWF 180 HSE	632,0	4,79	5,75	707,6	4,65	665,9	3,80	5,20	99	3160	1380	2080	3890
RTWF 190 HSE	681,0	4,82	5,78	763,7	4,69	720,9	3,86	5,23	101	3160	1380	2080	4069
RTWF 210 HSE	746,0	4,85	5,83	836,1	4,72	788,5	3,86	5,23	101	3160	1380	2080	4239
RTWF 230 HSE	810,0	4,91	5,95	904,7	4,75	852,2	3,90	5,30	101	3160	1380	2080	4239
RTWF 250 HSE	873,0	4,74	5,83	983,4	4,63	929,3	3,84	5,23	103	3160	1380	2080	4239
RTWF 275 HSE	937,0	4,72	6,18	1045,6	4,54	985,4	3,74	5,20	100	4754	1727	2032	5862
RTWF 290 HSE	984,0	4,68	5,98	1099,1	4,51	1036,2	3,74	5,20	100	4754	1727	2032	5858
RTWF 310 HSE	1044,0	4,66	6,28	1166,8	4,50	1099,7	3,73	5,23	101	4784	1727	2032	6100
RTWF 330 HSE	1101,0	4,70	6,28	1230,0	4,53	1159,8	3,75	5,23	101	4784	1727	2032	6164
RTWF 370 HSE	1224,0	4,68	6,23	1372,2	4,51	1288,6	3,72	5,20	101	4784	1727	2032	6337
RTWF 410 HSE	1392,0	4,71	6,33	1552,3	4,53	1462,1	3,75	5,28	102	4774	1823	2135	7660
RTWF 450 HSE	1510,0	4,74	6,38	1684,2	4,56	1587,7	3,78	5,33	102	4775	1825	2135	7785
RTWF 490 HSE	1643,0	4,72	6,30	1835,7	4,57	1731,0	3,79	5,35	102	4775	1825	2135	7908

Pc: Cooling capacity
Ph: Heating capacity

EER: Energy Efficiency Ratio (cooling)
COP: Coefficient Of Performance (heating)

SEER: Seasonal Energy Efficiency Ratio
SCOP: Seasonal Coefficient Of Performance

LwO: A-weighted sound power level outside
L: Length
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/ηs,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 medium temperature conditions. Source water temperature in/out 10/7°C and hot water temperature in/out 47/55°C. SCOP / ηs,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

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