



TRANE®



RTWD Water-to-Water Heat Pump



TRANE
TECHNOLOGIES

Trane heating.
Naturally.

E CELLENT

RTWD Water-to-Water Heat Pump



Cooling capacity: 235-1000 kW

Heating capacity: 260-1140 kW

- Market-leading reliability with Trane's renowned, robust screw compressor technology
- Low-speed, direct-drive semi-hermetic screw compressor featuring only three moving parts to reduce wear and tear; suction-gas-cooled motor
- Application flexibility: condenser water temperatures up to 75°C (63°C with R134a)
- Extended and unmatched capacities
- Compact physical footprint: fits through standard single-width door
- Trane Adaptive Control™: Tracer® Symbio™ 800 microprocessor system enhances chiller with the latest chiller control technology



Proven Trane reliability

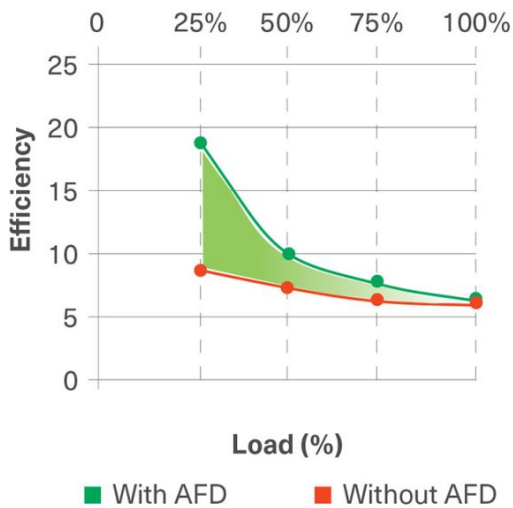
Trane's legendary reliability is based on over 100 years of designing, testing, installing and maintaining chillers around the world. Every Trane product derives from this unique heritage:

- Trane design simplicity
- Trane direct drive, low speed, semi-hermetic compressor with only three moving parts
- Infinite unloading for exact load matching
- RTWD uses system differential rather than a pump to move oil so there are no extra moving parts to wear out or break down

Minimized total cost of ownership

Energy costs are minimized by optimizing efficiency while maintenance costs are reduced thanks to effective performance and alarm monitoring. Installation costs are also lower, thanks to design improvements which reduce the time required for new plants or upgrades.

The Adaptive Frequency Drive reduces energy consumption even further by enhanced part load efficiency, fewer start-stop cycles, increased compressor life and reduced start-up current draw.





Driving Reduced Energy Consumption

The proven Trane Symbio™ 800 controller and the easy-to-use TD7 interface are the leading combination to maintain efficient operation and total chiller control through continuous monitoring:

- Data trending
- Clear alarm log enables fast response and rapid resolution
- Adaptive Control algorithms preempt chiller disruption



A model for every application

Whether your building requires comfort HVAC or precision temperature control as part of a sensitive industrial process, Trane RTWD models perfectly address the market needs for most heat pump applications, including geothermal applications.

Range description

- Heating: From -12 to 20°C (18°C with R134a) on the evaporator side and up to 75°C (63°C with R134a) on the condenser side
- RTWD packaged chillers are available in 57 different models with two refrigerants and four efficiency levels: SE: Standard Efficiency, HE: High Efficiency, XE: Extra High Efficiency, HSE (With AFD): High seasonal efficiency.
- RTWD G: R1234ze – RTWD: R134a

Technical specifications

Cooling capacity	235-1000 kW
------------------	-------------

Heating capacity	260-1140 kW
Eurovent certification	●
ErP Certification	●
Refrigerants	R1234ze R134a
Operating mode	Cooling only Heat pump
Energy saving	Adaptive Frequency™ Drive
Compressor	Screw

Product data

RTWD G - Heat pump

	P _c (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
RTWD 100 HE G	371,0	5,46	6,83	407,8	4,80	386,3	3,74	386,30	96	3400	1280	1950	3820
RTWD 110 HE G	405,0	5,37	6,80	446,3	4,73	424,6	3,72	424,60	96	3400	1280	1950	3820
RTWD 120 HE G	439,0	5,30	6,75	485,2	4,68	462,1	3,70	462,10	96	3400	1280	1950	3820
RTWD 130 HE G	489,0	5,11	6,58	544,7	4,60	518,8	3,66	518,80	96	3400	1280	1950	3820
RTWD 140 HE G	560,0	5,24	6,78	619,7	4,73	589,1	3,80	589,10	94	3490	1310	1970	4525
RTWD 160 HE G	605,0	5,19	6,73	670,0	4,69	636,6	3,78	637,00	94	3490	1310	1970	4525
RTWD 170 HE G	651,0	5,17	6,75	721,0	4,66	684,8	3,77	685,00	94	3490	1310	1970	4525
RTWD 100 HSE G	371,0	5,19	6,85	411,8	4,61	352,7	3,41	352,70	96	3395	1300	1945	4030
RTWD 110 HSE G	404,0	5,19	6,85	448,9	4,61	395,7	3,49	395,70	96	3395	1300	1945	4030
RTWD 120 HSE G	439,0	5,21	6,85	486,5	4,61	440,4	3,57	440,40	96	3395	1300	1945	4030
RTWD 130 HSE G	486,0	5,07	6,95	541,5	4,56	469,2	3,58	469,20	96	3395	1300	1945	4189
RTWD 140 HSE G	553,0	5,23	7,13	611,5	4,71	539,7	3,74	539,70	94	3810	1330	2005	4720
RTWD 160 HSE G	601,0	5,14	7,45	666,8	4,64	609,7	3,69	609,70	94	3810	1330	2005	4720
RTWD 170 HSE G	651,0	5,08	7,63	722,9	4,58	672,0	3,67	672,00	94	3810	1330	2005	4720
RTWD 180 HSE G	704,0	4,87	7,40	789,2	4,50	696,4	3,52	696,40	95	3810	1330	2005	4720
RTWD 200 HSE G	738,0	4,72	7,25	833,9	4,43	716,8	3,40	716,80	96	3490	1340	2005	4780

P_c: 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/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 medium temperature conditions. Source water temperature in/out 10/7°C and hot water temperature in/out 47/55°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

RTWD - Heat pump

	Pc (1) kW	EER (1)	SEER (2)	Ph (3) kW	COP (3)	SCOP (3)	LwO (4) dB(A)	L (5) mm	W (5) mm	H (5) mm	OW (5) kg
RTWD 060 HE	235,0	4,59	5,85	245,0	3,60	4,75	90	3210	1070	1940	2650
RTWD 070 HE	279,0	4,49	5,95	293,9	3,58	4,75	90	3210	1070	1940	2658
RTWD 080 HE	317,0	4,45	5,70	333,4	3,55	4,75	97	3210	1070	1940	2673
RTWD 090 HE	361,0	4,45	5,68	378,4	3,58	4,73	99	3230	1060	1960	2928
RTWD 100 HE	386,0	4,50	5,80	406,1	3,60	4,78	99	3320	1060	1960	2970
RTWD 110 HE	415,0	4,55	5,80	435,9	3,64	4,78	99	3230	1060	1960	3008
RTWD 120 HE	445,0	4,59	6,03	470,6	3,66	4,85	98	3240	1060	1960	3198
RTWD 130 HE	481,0	4,72	6,05	509,5	3,75	4,85	96	3400	1280	1950	3771
RTWD 140 HE	527,0	4,73	6,15	558,1	3,73	4,93	96	3400	1280	1950	3802
RTWD 160 HE	576,0	4,71	6,08	608,4	3,72	4,88	96	3400	1280	1950	3874
RTWD 180 HE	631,0	4,61	6,08	668,1	3,70	4,90	101	3490	1310	1970	4042
RTWD 200 HE	689,0	4,57	6,05	729,8	3,71	4,83	101	3490	1310	2010	4488
RTWD 220 HE	754,0	4,60	6,30	802,2	3,74	4,93	101	3490	1310	2010	4504
RTWD 250 HE	824,0	4,59	6,25	879,0	3,78	4,90	101	3490	1310	2010	4579
RTWD 160 XE	591,0	4,86	6,40	619,4	3,80	5,00	96	3760	1280	2010	4172
RTWD 180 XE	647,0	4,73	6,28	680,2	3,77	5,00	101	3810	1310	2010	4408
RTWD 200 XE	694,0	4,66	6,15	731,6	3,75	4,88	101	3490	1310	2010	4625
RTWD 060 HSE	235,0	4,30	5,88	235,5	3,39	4,83	90	3210	1131	1938	2788
RTWD 070 HSE	276,0	4,24	6,43	292,3	3,40	4,70	90	3210	1131	1938	2796
RTWD 080 HSE	317,0	4,20	5,65	335,3	3,35	4,63	97	3210	1131	1938	2829
RTWD 090 HSE	365,0	4,20	5,25	384,4	3,38	4,58	99	3223	1118	1955	3102
RTWD 100 HSE	391,0	4,28	5,55	414,3	3,42	4,65	99	3318	1118	1955	3144
RTWD 110 HSE	420,0	4,35	5,70	446,0	3,48	4,70	99	3223	1118	1955	3182
RTWD 120 HSE	454,0	4,51	5,88	477,5	3,55	4,85	98	3235	1118	1955	3372
RTWD 130 HSE	488,0	4,67	6,25	510,8	3,64	4,95	96	3395	1302	1943	3945
RTWD 140 HSE	533,0	4,62	5,93	560,4	3,64	4,95	96	3395	1302	1943	3996
RTWD 160 HSE	596,0	4,69	5,85	624,6	3,74	5,05	96	3752	1302	2004	4386
RTWD 180 HSE	655,0	4,68	6,33	687,8	3,70	5,05	101	3811	1332	2004	4622
RTWD 200 HSE	705,0	4,68	6,58	741,6	3,67	5,10	101	3489	1341	2004	4839
RTWD 220 HSE	762,0	4,53	6,73	810,9	3,61	5,08	101	3489	1341	2004	4718
RTWD 250 HSE	829,0	4,54	6,60	883,4	3,63	5,10	101	3489	1341	2004	4793

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/ $\eta_{s,c}$ as defined in REGULATION (EU) N° 2016/2281 of 20 December 2016

(3): Ecodesign rating at medium temperature conditions. Source water temperature in/out 10/7°C and hot water temperature in/out 47/55°C. SCOP / $\eta_{s,h}$ as defined in REGULATION (EU) N° 813/2013 of 2 August 2013

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

(5): 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 or tranetechnologies.com.