



RTWD/RTUD Water-Cooled Chiller

Cooling capacity: 240-1000 kW



TRANE
TECHNOLOGIES

At a Glance:

- Compact physical footprint: fits through standard single-width door
- Low-speed, direct-drive semi-hermetic screw compressor featuring only 3 moving parts, suction-gas-cooled motor
- Extended and unmatched capacities
- Application flexibility: condenser water temperatures up to 75°C (63°C with R134a)
- Trane Adaptive Control™: Tracer® Symbio™ 800 microprocessor system enhances chiller with the latest chiller control technology



Proven Trane reliability

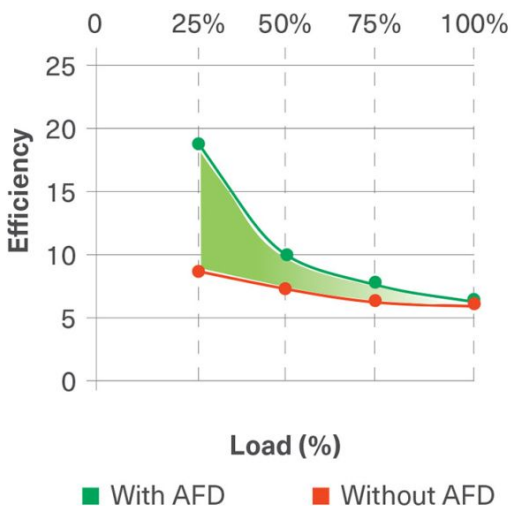
Trane's legendary reliability is based on over 100 years of designing, testing, installing and maintaining chillers around the world. Every Trane product derives from this unique heritage:

- 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 cooling or precision temperature control as part of a sensitive industrial process, Trane offers suitable RTWD models for any application.

Range description

- Operating Conditions: Comfort and Process cooling - 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 2 different refrigerants and 4 efficiency levels: SE: Standard Efficiency, HE: High Efficiency, XE: Extra High Efficiency, HSE (With AFD): High seasonal efficiency.
- RTUD condenserless chillers exist in 21 sizes and 3 efficiency levels: SE: Standard Efficiency, HE: High Efficiency, XE: Extra High Efficiency.

Technical specifications

Unit type

Water-to-water

Operating mode

Cooling only | Heat pump

Cooling capacity	240-1000 kW
Heating capacity	-----
Eurovent certification	
ErP Certification	
Refrigerants	R1234ze R134a
Energy saving	Adaptive Frequency™ Drive
Compressor	Screw
Data protocols	Lonmark Bacnet Modbus

RTWD - Cooling

	Pc (1) kW	EER (1)	SEER (2)	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
RTWD 060 HE	239,0	5,12	6,58	90	3210	1070	1940	2650
RTWD 070 HE	282,0	5,10	6,70	90	3210	1070	1940	2658
RTWD 080 HE	323,0	5,05	6,55	97	3210	1070	1940	2673
RTWD 090 HE	372,0	5,10	6,65	99	3230	1060	1960	2928
RTWD 100 HE	398,0	5,15	6,75	99	3320	1060	1960	2970
RTWD 110 HE	426,0	5,21	6,80	99	3230	1060	1960	3008
RTWD 120 HE	462,0	5,18	6,73	98	3240	1060	1960	3198
RTWD 130 HE	503,0	5,30	6,90	96	3400	1280	1950	3771
RTWD 140 HE	546,0	5,30	6,95	96	3400	1280	1950	3802
RTWD 160 HE	590,0	5,25	6,88	96	3400	1280	1950	3874
RTWD 180 HE	651,0	5,19	6,78	101	3490	1310	1970	4042
RTWD 200 HE	714,0	5,22	6,85	101	3490	1310	2010	4488
RTWD 220 HE	781,0	5,23	7,03	101	3490	1310	2010	4504
RTWD 250 HE	853,0	5,19	6,95	101	3490	1310	2010	4579
RTWD 160 XE	606,0	5,48	7,10	96	3760	1280	2010	4172
RTWD 180 XE	668,0	5,39	7,13	101	3810	1310	2010	4408
RTWD 200 XE	720,0	5,37	7,15	101	3490	1310	2010	4625
RTWD 060 HSE	244,0	5,02	6,38	90	3210	1131	1938	2788
RTWD 070 HSE	286,0	4,99	6,85	90	3210	1131	1938	2796
RTWD 080 HSE	329,0	4,91	6,78	97	3210	1131	1938	2829
RTWD 090 HSE	380,0	4,94	6,43	99	3223	1118	1955	3102
RTWD 100 HSE	405,0	5,01	6,63	99	3318	1118	1955	3144
RTWD 110 HSE	434,0	5,09	7,10	99	3223	1118	1955	3182
RTWD 120 HSE	468,0	5,09	6,70	98	3235	1118	1955	3372
RTWD 130 HSE	502,0	5,09	7,20	96	3395	1302	1943	3945
RTWD 140 HSE	547,0	5,11	7,18	96	3395	1302	1943	3996
RTWD 160 HSE	611,0	5,35	6,98	96	3752	1302	2004	4386
RTWD 180 HSE	671,0	5,26	7,23	101	3811	1332	2004	4622
RTWD 200 HSE	720,0	5,19	7,58	101	3489	1341	2004	4839
RTWD 220 HSE	777,0	4,96	7,63	101	3489	1341	2004	4718
RTWD 250 HSE	844,0	4,97	7,65	101	3489	1341	2004	4793
RTWD 260 HSE	923,0	4,64	7,45	101	3489	1341	2004	4718
RTWD 270 HSE	1003,0	4,66	7,38	101	3489	1341	2004	4793

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

RTWD G - Cooling

	P _c (1) kW	EER (1)	SEER (2)	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
RTWD 100 HE G	371,0	5,46	6,83	96	3400	1280	1950	3820
RTWD 110 HE G	405,0	5,37	6,80	96	3400	1280	1950	3820
RTWD 120 HE G	439,0	5,30	6,75	96	3400	1280	1950	3820
RTWD 130 HE G	489,0	5,11	6,58	96	3400	1280	1950	3820
RTWD 140 HE G	560,0	5,24	6,78	94	3490	1310	1970	4525
RTWD 160 HE G	651,0	5,17	6,75	94	3490	1310	1970	4525
RTWD 170 HE G	371,0	5,19	6,85	94	3490	1310	1970	4525
RTWD 100 HSE G	404,0	5,19	6,85	96	3395	1300	1945	4030
RTWD 110 HSE G	439,0	5,21	6,85	96	3395	1300	1945	4030
RTWD 120 HSE G	486,0	5,07	6,95	96	3395	1300	1945	4030
RTWD 130 HSE G	553,0	5,23	7,13	96	3395	1300	1945	4189
RTWD 140 HSE G	601,0	5,14	7,45	94	3810	1330	2005	4720
RTWD 160 HSE G	651,0	5,08	7,63	94	3810	1330	2005	4720
RTWD 170 HSE G	704,0	4,87	7,40	94	3810	1330	2005	4720
RTWD 180 HSE G	738,0	4,72	7,25	95	3810	1330	2005	4720
RTWD 200 HSE G	605,0	5,19	6,73	96	3490	1340	2005	4780

P_c: 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/ $\eta_{s,c}$ 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 / $\eta_{s,h}$ 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

RTUD

	P _c (1) kW	LwO (2) dB(A)	L (3) mm	W (3) mm	H (3) mm	OW (3) kg
RTUD 060	209,0	90	3320	1053	1945	2223
RTUD 070	250,0	90	3320	1053	1945	2229

RTUD 080	284,0	97	3320	1053	1945	2329
RTUD 090	323,0	99	3320	1053	1945	2440
RTUD 100	346,0	99	3320	1053	1955	2468
RTUD 110	372,0	99	3320	1053	1955	2507
RTUD 120	401,0	98	3320	1053	1955	2683
RTUD 130	430,0	96	3376	1211	1949	3151
RTUD 140	474,0	96	3376	1211	1949	3164
RTUD 160	519,0	96	3395	1211	1949	3310
RTUD 180	569,0	101	3489	1241	1958	3485
RTUD 200	621,0	101	3489	1252	2008	3584
RTUD 220	682,0	101	3472	1252	2004	3623
RTUD 250	748,0	101	3472	1252	2004	3645

Pc: Cooling capacity

W: Width

LwO: A-weighted sound power level outside

H: Height

L: Length

OW : Operating Weight

(1): Evaporator water temperature in/out 12/7°C - Saturated Cond Temp 45°C/Liquid refrigerant Temp 40°C

(2): According to ISO 9614:2009. (without accessories)

(3): Basic unit without accessories

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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.

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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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