



RTWD/RTUD Water-Cooled Chiller



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Cooling capacity: 240-1000 kW

Heating capacity: -----

- 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

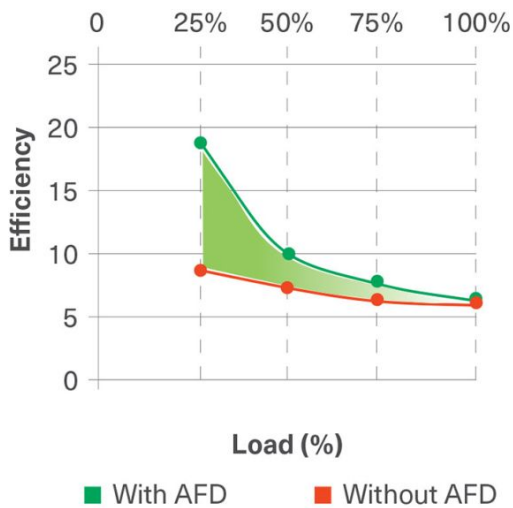
Trane's legendary reliability is based on over 100 years of designing, testing, installing and maintaining chillers around the world. Every Trane product derives from this unique heritage:

- 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.

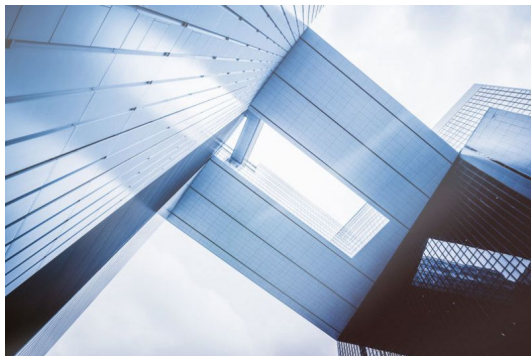




Driving Reduced Energy Consumption

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

Cooling capacity

240-1000 kW

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

Product data

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 | 605,0 | 5,19 | 6,73 | 94 | 3490 | 1310 | 1970 | 4525 |
| RTWD 170 HE G | 651,0 | 5,17 | 6,75 | 94 | 3490 | 1310 | 1970 | 4525 |
| RTWD 100 HSE G | 371,0 | 5,19 | 6,85 | 96 | 3395 | 1300 | 1945 | 4030 |
| RTWD 110 HSE G | 404,0 | 5,19 | 6,85 | 96 | 3395 | 1300 | 1945 | 4030 |
| RTWD 120 HSE G | 439,0 | 5,21 | 6,85 | 96 | 3395 | 1300 | 1945 | 4030 |
| RTWD 130 HSE G | 486,0 | 5,07 | 6,95 | 96 | 3395 | 1300 | 1945 | 4189 |
| RTWD 140 HSE G | 553,0 | 5,23 | 7,13 | 94 | 3810 | 1330 | 2005 | 4720 |
| RTWD 160 HSE G | 601,0 | 5,14 | 7,45 | 94 | 3810 | 1330 | 2005 | 4720 |
| RTWD 170 HSE G | 651,0 | 5,08 | 7,63 | 94 | 3810 | 1330 | 2005 | 4720 |
| RTWD 180 HSE G | 704,0 | 4,87 | 7,40 | 95 | 3810 | 1330 | 2005 | 4720 |
| RTWD 200 HSE G | 738,0 | 4,72 | 7,25 | 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/η_{s,c} 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

RTWD - 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 160 SE | 585,0 | 4,54 | 5,70 | 101 | 3490 | 1310 | 1970 | 3874 |
| RTWD 170 SE | 647,0 | 4,52 | 5,65 | 101 | 3490 | 1310 | 1970 | 4049 |
| RTWD 190 SE | 725,0 | 4,65 | 5,90 | 101 | 3490 | 1310 | 1970 | 4086 |

| | | | | | | | | |
|---------------------|--------|------|------|-----|------|------|------|------|
| RTWD 200 SE | 796,0 | 4,69 | 6,00 | 101 | 3490 | 1310 | 1970 | 4125 |
| 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 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

RTUD

| | P_c (1) kW | L_{wO} (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 |

P_c: Cooling capacity

W: Width

L_{wO}: 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

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.