

RTWD G

Water-cooled packaged helical-rotary chillers and heat pumps

General Characteristics*

- Cooling capacity from 360 to 815 kW
- EER up to 5.3
- ESEER up to 6.3
- IPLV up to 7.2



*Preliminary data, Subject to changes

- Final Data will be submitted to Eurovent and AHRI during 2nd Quarter 2017
- New Product Introduction which is not certified in accordance with AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Certification Program, but is rated in accordance with AHRI Standard 550/590 (I-P).

Main Features

- 2 different levels of efficiency
 - HE: Fixed Speed Compressor
 - HSE: Variable Speed with Trane Adaptive Frequency™ Drive (AFD)
- Double circuit / Dual compressor
- Low-speed, direct-drive semi-hermetic helical rotary compressor, suction-gas-cooled motor
- Fully modulating load control (minimum 15% – 100%)
- CH530 adaptive Control™ microprocessor system enhances chiller by providing the latest chiller control technology
- BACnet MSTP & IP, Modbus, LonTalk communication
- Compact physical footprint - fits through standard single width door



Options

- Ice Making (R134a)
- Right hand or Left hand connections
- Sound attenuation package (-3 dB(A))

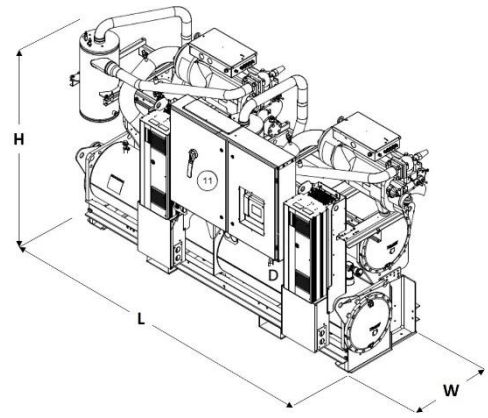
Accessories

- Flow Switch
- Anti-vibration accessories : neoprene isolators

Performances*

RTWD HE

	100 HE G	110 HE G	120 HE G	130 HE G	140 HE G	160 HE G	170 HE G
Number of compressors	2						
Cooling Capacity (kW) (1)	359	394	434	476	534	584	636
EER (1)	5.1	5.1	5.1	5.1	5.5	5.4	5.4
ESEER (1)	6.4	6.4	6.4	6.4	6.7	6.8	6.8
IPLV (2)	6.5	6.5	6.5	6.5	6.9	7.0	6.9
Heating Capacity (kW) (3)	386	425	467	513	576	630	684
COP (3)	4.9	4.8	4.9	4.8	5.2	5.1	5.1
Heating Capacity (kW) (4)	365	402	441	485	544	595	648
COP (4)	3.9	3.9	3.9	3.9	4.2	4.2	4.2
Heating Capacity (kW) (5)	345	379	417	457	513	563	613
COP (5)	3.2	3.2	3.2	3.1	3.4	3.4	3.4
Cooling Capacity (kW) (6)	358	394	432	474	532	582	633
EER (6)	4.7	4.7	4.8	4.7	5.2	5.2	5.2
ESEER (6)	5.5	5.5	5.6	5.4	6.1	6.1	5.9
Heating Capacity (kW) (7)	388	427	469	514	577	631	686
COP (7)	4.4	4.4	4.5	4.4	4.9	4.9	4.8
Heating Capacity (kW) (8)	366	403	442	485	545	596	648
COP (8)	3.7	3.7	3.7	3.6	4.1	4.0	4.0
Heating Capacity (kW) (9)	346	380	418	458	514	564	614
COP (9)	3.0	3.0	3.0	2.9	3.3	3.3	3.3
Length (mm)	3400	3400	3400	3400	3490	3490	3490
Width (mm)	1280	1280	1280	1280	1310	1310	1310
Height (mm)	1950	1950	1950	1950	1970	1970	1970



RTWD HSE

	100 HSE G	110 HSE G	120 HSE G	130 HSE G	140 HSE G	160 HSE G	170 HSE G	180 HSE G	200 HSE G	220 HSE G	250 HSE G
Number of compressors	2										
Cooling Capacity (kW) (1)	368	402	438	482	534	587	642	689	718	765	814
EER (1)	4.9	4.9	4.9	4.8	5.3	5.3	5.3	5.1	4.9	4.8	4.7
ESEER (1)	6.5	6.5	6.5	6.4	7.0	6.9	6.8	6.7	6.4	6.3	6.2
IPLV (2)	6.6	6.6	6.6	6.5	7.2	7.1	7.0	6.8	6.6	6.4	6.3
Heating Capacity (kW) (3)	397	434	473	520	576	633	691	748	788	845	902
COP (3)	4.7	4.7	4.7	4.6	5.1	5.0	5.0	4.9	4.7	4.6	4.6
Heating Capacity (kW) (4)	375	409	447	491	544	597	651	709	750	805	860
COP (4)	3.8	3.8	3.8	3.8	4.1	4.1	4.0	3.9	3.8	3.8	3.7
Heating Capacity (kW) (5)	354	386	422	464	513	563	613	671	715	769	822
COP (5)	3.0	3.0	3.0	3.0	3.3	3.3	3.2	3.2	3.1	3.1	3.0
Cooling Capacity (kW) (6)	367	400	437	480	532	584	639	685	715	762	811
EER (6)	4.7	4.7	4.7	4.6	5.1	5.1	5.0	4.8	4.7	4.6	4.49
ESEER (6)	5.7	5.7	5.7	5.7	6.3	6.1	5.9	5.7	5.8	5.6	5.5
Heating Capacity (kW) (7)	398	435	474	522	578	635	693	751	790	847	905
COP (7)	4.5	4.4	4.4	4.4	4.8	4.8	4.7	4.6	4.5	4.4	4.3
Heating Capacity (kW) (8)	375	410	447	492	545	598	652	710	750	805	861
COP (8)	3.7	3.7	3.7	3.6	4.0	3.9	3.9	3.8	3.7	3.7	3.6
Heating Capacity (kW) (9)	354	387	422	464	514	564	614	672	716	770	823
COP (9)	3.0	3.0	3.0	2.9	3.2	3.2	3.2	3.1	3.1	3.0	3.0
Length (mm)	3395	3395	3395	3395	3810	3810	3810	3810	3490	3490	3490
Width (mm)	1300	1300	1300	1300	1330	1330	1330	1330	1340	1340	1340
Height (mm)	1945	1945	1945	1945	2005	2005	2005	2005	2005	2005	2005

(1) at 12/7°C Entering/Leaving evaporator and 30/35°C Entering/Leaving condenser
 (2) according to AHRI Standard 550/590
 (3) at 10/7°C Entering/Leaving evaporator and 40/45°C Entering/Leaving condenser
 (4) at 10/7°C Entering/Leaving evaporator and 47/55°C Entering/Leaving condenser
 (5) at 10/7°C Entering/Leaving evaporator and 55/65°C Entering/Leaving condenser

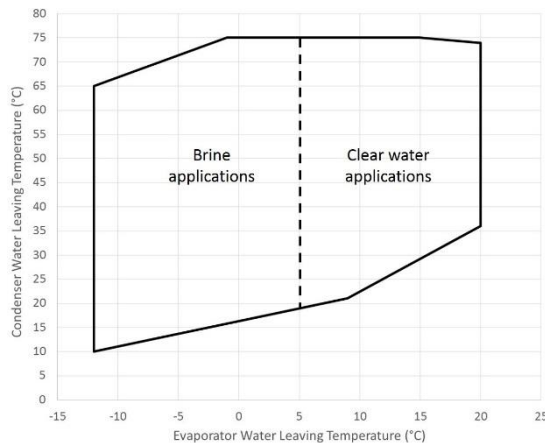
(6) at 12/7°C Entering/Leaving evaporator and 30/35°C Entering/Leaving condenser and according to EN14511-2013
 (7) at 10/7°C Entering/Leaving evaporator and 40/45°C Entering/Leaving condenser and according to EN14511-2013
 (8) at 10/7°C Entering/Leaving evaporator and 47/55°C Entering/Leaving condenser and according to EN14511-2013
 (9) at 10/7°C Entering/Leaving evaporator and 55/65°C Entering/Leaving condenser and according to EN14511-2013
 Shaded areas indicate the use of a 3 pass condenser

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Operating Limits



Trane optimizes the performance of homes and buildings around the world. A business of Ingersoll Rand, the leader in creating and sustaining safe, comfortable and energy efficient environments, Trane offers a broad portfolio of advanced controls and HVAC systems, comprehensive building services, and parts.

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