TRANE

RTXC Air-to-Water Heat Pump

TRANE
TECHNOLOGIES

RTXC Air-to-Water Heat Pump

Cooling capacity: 370-950 kW

Heating capacity: 380-1030 kW

- Efficient and sustainable heating and cooling for a wide variety of applications
- 3 operating modes to cover every season: cooling only, cooling while heating (via partial heat recovery) and heating only
- The best Eurovent certified cooling full load EER 3.6 and seasonal SEER 5.54 efficiencies of the industry in screw compressor reversible heat-pump category
- Strong operating map: up to 55°C hot water in -12°C ambient temperature
- Two effiency types: XE (fixed speed compressors) and HSE (inverter driven compressors)
- Leverages the renowned reliability and durability of the RTAC platform with Trane designed and manufactured screw compressors

Efficient and sustainable heating and cooling

Trane RTXC reversible heat pumps with speed screw compressor technology combine high performance, wide capacity range and proven reliability to deliver outstanding value.

Trane designed and manufactured fixed and variable speed screw compressor technology, EC fans, and two refrigerant options R513a and R134a enable the best Eurovent certified efficiencies of the industry in screw compressor reversible heat-pump category:

- Cooling full load EER 3.6 and
- Seasonal SEER 5.54

RTXC units also deliver very competitive heating efficiencies and max capacity in heating over 1 MW.

Reversible heat-pump operation for every season

RTXC has three operating modes fulfilling the cooling and heating needs throughout the year.

Besides cooling and heating only operating modes, the RTXC can also heat while cooling via the partial heat-recovery option. The wide operating map enables to produce up to 55°C hot water in -12°C ambient.

Technical specifications

Cooling capacity	370-950 kW
Heating capacity	380-1030 kW
Eurovent certification	●
ErP Certification	●
Refrigerants	R513A | R134a
Operating mode	Heat pump
Energy saving	Heat recovery
Compressor	Screw

Product data

RTXC XE EC R513a

	Pc (1) kW	Pec (1) kW	EER (1)	SEER (2)	ηsc (2) %	Ph (3) kW	Peh (3) kW	COP (3)	SCOP (4)	ηsh (4) %	LwO (5) dB(A)	Refrigerant	L (6) mm	W (6) mm	H (6) mm	OW (6) kg
RTXC 110 XE-EC-R513A	373,8	120,6	3,10	4,36	171,5	396,7	120,2	3,30	3,37	132,0	101	R513A	4300	2250	2500	4220
RTXC 160 XE-EC-R513A	549,6	171,8	3,20	4,66	183,3	548,7	172,6	3,18	3,46	135,3	102	R513A	7700	2250	2500	7020
RTXC 180 XE-EC-R513A	640,1	200,0	3,20	4,55	179,1	643,9	198,7	3,24	3,35	130,8	104	R513A	7700	2250	2500	7140
RTXC 200 XE-EC-R513A	665,1	207,8	3,20	4,60	180,9	672,7	217,0	3,10	3,44	134,7	102	R513A	8700	2250	2500	7501
RTXC 220 XE-EC-R513A	798,7	249,6	3,20	4,55	178,8	798,7	252,0	3,17	3,44	134,5	104	R513A	8700	2250	2500	7621

Pc: Cooling capacity
Pec: Total power input in cooling
EER: Energy Efficiency Ratio (cooling)
SEER: Seasonal Energy Efficiency Ratio
ηsc: Seasonal space cooling energy efficiency
Ph: Heating capacity
Peh: Total power input in heating
COP: Coefficient Of Performance (heating)
SCOP: Seasonal Coefficient Of Performance
ηsh: Seasonal space heating energy efficiency
LwO: A-weighted sound power level outside
Refrigerant: Refrigerant type
L: Length
W: Width
H: Height
OW : Operating Weight

(1): Cooling: Outdoor air temperature 35°C and chilled water temperature 12°C/7°C. (EN 14511:2022)
(2): Ecodesign rating for comfort chiller - Fan coil application. Outdoor air temperature 35°C and chilled water temperature in/ out: 12°C/7°C. ηs,c/SEER as defined in Ecodesign requirements for Comfort Chillers with 2000 kW maximum capacity - REGULATION (EU) N° 2016/2281 of 20 December 2016.
(3): Outdoor air temperature 7°C - hot water temperature in/out 40/45°C. (EN 14511:2022)
(4): Ecodesign rating at low temperature conditions. Outdoor temperature: 7°C dry bulb/6°C wet bulb and hot water temperature in/out: 30°C/35°C. ηs,h / SCOP as defined in Directive 2009/125/EC of the European Parliament and of the Council with regard to Ecodesign requirements for Space heaters and combination heaters with Prated < 400kW - COMMISSION REGULATION (EU) N° 813/2013 of 2 August 2013
(5): (5) According to ISO 9614:2009. Eurovent conditions, with 1pW reference sound power (without accessories)
(6): Basic unit without accessories

RTXC XE EC R134a

	Pc (1) kW	Pec (1) kW	EER (1)	SEER (2)	ηsc (2) %	Ph (3) kW	Peh (3) kW	COP (3)	SCOP (4)	ηsh (4) %	LwO (5) dB(A)	Refrigerant	L (6) mm	W (6) mm	H (6) mm	OW (6) kg
RTXC 110 XE-EC	384,4	109,8	3,50	4,58	180,4	387,5	110,7	3,50	3,29	128,4	101	R134a	4300	2250	2500	4220
RTXC 160 XE-EC	586,9	163,0	3,60	4,78	188,3	554,6	160,8	3,45	3,48	136,1	102	R134a	7700	2250	2500	7020
RTXC 180 XE-EC	643,4	189,2	3,40	4,81	189,5	648,0	183,6	3,53	3,37	131,8	104	R134a	7700	2250	2500	7140
RTXC 200 XE-EC	684,0	201,2	3,40	4,70	185,0	668,3	205,6	3,25	3,33	130,4	102	R134a	8700	2250	2500	7501
RTXC 220 XE-EC	757,6	222,8	3,40	4,67	183,6	769,8	228,4	3,37	3,29	128,5	104	R134a	8700	2250	2500	7621

Pc: Cooling capacity
Pec: Total power input in cooling
EER: Energy Efficiency Ratio (cooling)
SEER: Seasonal Energy Efficiency Ratio
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RTXC XE R134a

	Pc (1) kW	Pec (1) kW	EER (1)	SEER (2)	ηsc (2) %	Ph (3) kW	Peh (3) kW	COP (3)	SCOP (4)	ηsh (4) %	LwO (5) dB(A)	Refrigerant	L (6) mm	W (6) mm	H (6) mm	OW (6) kg
RTXC 110 XE	382,2	112,7	3,39	4,46	175,0	386,1	111,3	3,47	3,22	125,9	100	R134a	4300	2250	2500	4220
RTXC 160 XE	583,2	166,1	3,51	4,68	184,0	551,7	161,8	3,41	3,42	133,7	102	R134a	7700	2250	2500	7020
RTXC 180 XE	640,2	189,4	3,38	4,67	184,0	644,6	184,2	3,50	3,38	132,3	103	R134a	7700	2250	2500	7140
RTXC 200 XE	678,7	200,8	3,38	4,55	179,0	665,4	206,0	3,23	3,20	125,0	102	R134a	8700	2250	2500	7501
RTXC 220 XE	753,3	225,6	3,34	4,55	179,0	765,9	228,6	3,35	3,31	129,4	103	R134a	8700	2250	2500	7621

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RTXC HSE EC R513a

	Pc (1) kW	Pec (1) kW	EER (1)	SEER (2)	ηsc (2) %	Ph (3) kW	Peh (3) kW	COP (3)	SCOP (4)	ηsh (4) %	LwO (5) dB(A)	Refrigerant	L (6) mm	W (6) mm	H (6) mm	OW (6) kg
RTXC 110 HSE-EC-R513A	372,0	128,3	2,90	4,72	185,9	399,5	126,0	3,17	3,52	137,8	101	R513A	4720	2250	2500	4344
RTXC 130 HSE-EC-R513A	429,0	151,1	2,84	4,62	181,8	456,3	147,7	3,09	3,55	139,1	105	R513A	4720	2250	2500	4396

RTXC 140 HSE-EC-R513A	455,3	182,9	2,49	4,47	176,0	503,4	174,8	2,88	3,43	134,1	102	R513A	4720	2250	2500	4396
RTXC 160 HSE-EC-R513A	548,9	187,3	2,93	4,95	194,9	549,1	184,3	2,98	3,40	133,2	102	R513A	7900	2250	2500	7251
RTXC 180 HSE-EC-R513A	607,2	210,8	2,88	5,04	198,5	618,6	209,0	2,96	3,46	135,3	104	R513A	7900	2250	2500	7371
RTXC 200 HSE-EC-R513A	668,5	225,1	2,97	5,21	205,5	699,1	224,8	3,11	3,62	142,0	102	R513A	8900	2250	2500	7759
RTXC 220 HSE-EC-R513A	735,8	255,5	2,88	4,90	192,9	802,8	262,4	3,06	3,40	133,2	104	R513A	8900	2250	2500	7879
RTXC 250 HSE-EC-R513A	816,6	285,5	2,86	4,78	188,1	891,3	294,2	3,03	3,44	134,5	108	R513A	8900	2250	2500	7965
RTXC 280 HSE-EC-R513A	899,1	362,5	2,48	4,55	179,0	1026,6	373,3	2,75	3,33	130,3	105	R513A	8900	2250	2500	7965

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L: Length
OW : Operating Weight

Pec: Total power input in cooling
ηsc: Seasonal space cooling energy efficiency
COP: Coefficient Of Performance (heating)
LwO: A-weighted sound power level outside
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RTXC 110 HSE-EC-R134A	381,0	119,1	3,20	5,23	206,2	384,1	115,4	3,33	3,54	138,5	101	R134a	4720	2250	2500	4344
RTXC 130 HSE-EC-R134A	438,1	143,2	3,06	5,15	202,9	439,1	136,8	3,21	3,53	138,2	105	R134a	4720	2250	2500	4396
RTXC 140 HSE-EC-R134A	480,6	168,0	2,86	5,06	199,4	472,2	148,0	3,19	3,48	136,1	102	R134a	4720	2250	2500	4396
RTXC 160 HSE-EC-R134A	584,9	177,8	3,29	5,45	214,9	560,7	167,9	3,34	3,68	144,1	102	R134a	7900	2250	2500	7251
RTXC 180 HSE-EC-R134A	647,4	199,8	3,24	5,54	218,6	633,6	190,3	3,33	3,81	149,2	104	R134a	7900	2250	2500	7371
RTXC 200 HSE-EC-R134A	692,1	213,6	3,24	5,54	218,5	667,6	209,9	3,18	3,57	139,9	102	R134a	8900	2250	2500	7759
RTXC 220 HSE-EC-R134A	752,9	236,0	3,19	5,42	213,8	762,3	239,0	3,19	3,45	135,0	104	R134a	8900	2250	2500	7879
RTXC 250 HSE-EC-R134A	864,7	284,4	3,04	5,30	209,0	875,9	286,2	3,06	3,43	134,3	108	R134a	8900	2250	2500	7965
RTXC 280 HSE-EC-R134A	947,8	330,2	2,87	5,17	203,7	943,1	312,3	3,02	3,20	125,1	105	R134a	8900	2250	2500	7965

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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