



## **City Advantage CXWF Water-to-Water Heat Pump**













Cooling capacity: 50-700 kW

Heating capacity: 60-835 kW

- SCOP: Seasonal efficiency up to 6.42 under EN14825:2018 conditions
- SEER: Seasonal efficiency up to 7.31 under EN14825:2018 conditions
- Compact: 880 mm maximum width
- Application flexibility: condenser water temperatures up to +65°C
- Quiet operation: low vibrations and available in low or super low noise version
- Single or dual refrigerant circuits with electronic expansion valve





#### Modular and scalable

City Advantage CXWF heat pumps are suitable for almost any medium to large-sized commercial building or process cooling application to provide outstanding year-round efficiency.

Historic city centers and older buildings do not always allow for easy transportation of units into, onto or next to buildings. City Advantage units have been specially designed for restricted spaces and to facilitate internal transport and easy installation.

The modular and compact design is ideal when capacity extension is required as building demand or industrial process cooling or heating demand evolves.





### High energy performance

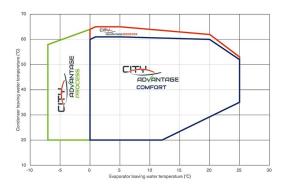
CXWF heat pumps are sustainable, electrified alternative to traditional fossil-fueled boilers.

All CXWF heat pumps pass the high seasonal energy efficiency thresholds (SCOP or SEER) as defined in the applicable EU Ecodesign regulation.

Superior (seasonal) energy performance means:

- · Low annual operating costs due to low electricity usage
- Sustainable HVAC system with low carbon emissions
- Access to national heat pump subsidy or fiscal grant schemes





### Large operating map

City Advantage satisfies any application and covers a wide spectrum of operating conditions in both cooling and heating. The large operating map addresses the specific design criteria of applications like hospitals, office buildings, large apartment buildings, warehouses and many industrial applications:

- Leaving chilled water temperatures between -7°C and +25°C
- Hot water temperatures up to +65°C



### **Geothermal applications**

The technologies built into Trane's City Advantage heat pumps make them ideally suited to geothermal applications.

The unit can be provided with variable speed pumps on the source side to be coupled with borehole heat exchangers, or with 2-or 3-way valves to modulate water flow if it's connected to a water loop.



## **Range description**

• City Advantage - CXWF heat pumps are available in nine different capacities, with features that can be optimized to suit your building's size and function.

Your Trane Sales Engineer will help you select the ideal CXWF heat pump based on your specific performance criteria and available technical room space.

# **Technical specifications**

Cooling capacity	50-700 kW
Heating capacity	60-835 kW
Eurovent certification	
ErP Certification	
Refrigerants	R454B   R410A
Operating mode	Heat pump
Energy saving	
Compressor	Scroll



## **Product data**

CXWF R454BA (Single Ciruit)															
	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)	L (6) mm	W (6) mm	H (6) mm	OW (6) kg
CXWF 013 - R454B	52,7	10,5	5,04	6,70	263,6	58,9	13,6	4,33	6,41	248,4	-	1555	676	1417	448
CXWF 015 - R454B	60,4	12,3	4,92	6,50	258,3	67,9	15,8	4,29	6,23	241,2	-	1555	676	1417	450
CXWF 019 - R454B	69,8	13,9	5,03	6,70	264,6	77,3	17,7	4,38	6,52	253,0	-	1555	676	1417	455
CXWF 023 - R454B	83,7	16,6	5,05	6,70	266,6	93,2	21,1	4,42	6,40	248,2	-	1555	676	1417	465
CXWF 025 - R454B	94,2	18,8	5,00	6,50	257,8	104,4	23,5	4,44	6,45	250,1	-	1555	676	1417	510
CXWF 029 - R454B	111,3	22,1	5,04	6,60	259,4	123,5	27,7	4,46	6,44	249,5	-	1755	810	1417	692
CXWF 033 - R454B	130,0	25,2	5,17	6,80	270,4	142,9	31,5	4,54	6,55	254,0	-	1755	810	1417	738
CXWF 037 - R454B	143,2	28,0	5,11	6,70	266,8	158,3	34,9	4,53	6,52	252,7	-	1755	810	1417	747
CXWF 041 - R454B	155,9	31,1	5,01	6,50	257,7	173,2	38,7	4,48	6,38	247,3	-	1755	810	1417	749

Pc: Cooling capacity

SEER: Seasonal Energy Efficiency Ratio
Peh: Total power input in heating

nsh: Seasonal space heating energy efficiency

W: Width

Pec: Total power input in cooling

nsc: Seasonal space cooling energy efficiency COP: Coefficient Of Performance (heating)

LwO: A-weighted sound power level outside

H: Height

EER: Energy Efficiency Ratio (cooling)

Ph: Heating capacity

SCOP: Seasonal Coefficient Of Performance

L: Length

OW : Operating Weight

CXWF R454B (Dual Ciruit)															
Pc Pec EER SEER ηsc Ph Peh COP SCOP ηsh LwO L W H OW														ow	
	(1) kW	(1) kW	(1)	(2)	(2) %	(3) kW	(3) kW	(3)	(4)	(4) %	(5) dB(A)	(6) mm	(6) mm	(6) mm	(6) kg
CXWF 042 - R454B	158,1	31,3	5,05	6,50	255,8	175,1	39,4	4,44	6,41	248,2	-	2511	882	1652	950
CXWF 048 - R454B	185,1	37,3	4,96	6,20	246,9	206,7	46,8	4,42	6,22	240,8	-	2511	882	1652	1043
CXWF 056 - R454B	217,3	44,6	4,87	6,20	243,2	243,3	55,7	4,37	6,09	235,5	-	2511	882	1652	1145
CXWF 064 - R454B	250,6	50,7	4,94	6,30	250,2	280,8	63,2	4,44	6,18	239,3	-	2511	882	1844	1348
CXWF 072 - R454B	277,8	55,1	5,04	6,50	258,3	311,0	69,1	4,50	6,25	242,2	-	2511	882	1844	1422
CXWF 078 - R454B	302,8	60,7	4,99	6,40	252,9	340,0	76,1	4,47	-	-	-	2511	882	1844	1425

<sup>(1):</sup> Evaporator water temperature in/out 12/7°C - Condenser water temperature in/out 30/35°C (EN 14511:2022)

<sup>(2):</sup> 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 (Prated > 400kW)

<sup>(3):</sup> Evaporator water temperature in/out  $10/7^{\circ}$ C - Condenser water temperature in/out  $40/45^{\circ}$ C

<sup>(4):</sup> 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 (Prated < 400kW)

<sup>(5):</sup> According ISO 9614:2009, without accessories

<sup>(6):</sup> Basic unit without accessories



CXWF 088 - R454B	331,5	69,5	4,77	6,20	244,3	377,1	87,7	4,30	-	-	-	2511	882	1844	1532
CXWF 096 - R454B	372,4	76,2	4,89	6,50	255,8	421,8	96,5	4,37	-	-	-	2511	882	1844	1808
CXWF 112 - R454B	431,5	86,8	4,97	6,50	258,1	484,8	108,7	4,46	-	-	-	2511	882	1844	1917
CXWF 128 - R454B	484,0	96,2	5,03	6,80	269,4	543,5	120,5	4,51	-	-	-	2511	882	1844	2038
CXWF 144 - R454B	564,0	114,9	4,91	6,60	259,6	635,9	144,5	4,40	-	-	-	3914	883	1953	2605
CXWF 162 - R454B	614,7	126,0	4,88	6,60	262,9	694,2	158,1	4,39	-	-	-	3914	883	1953	2649
CXWF 176 - R454B	664,3	137,5	4,83	6,50	257,8	751,3	171,5	4,38	-	-	-	3914	883	1953	2672
CXWF 192 - R454B	695,3	148,6	4,68	6,40	253,8	792,3	184,7	4,29	-	-	-	3914	883	1953	2706

Pc: Cooling capacity

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W: Width

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COP: Coefficient Of Performance (heating)

LwO: A-weighted sound power level outside

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<sup>(5):</sup> According ISO 9614:2009, without accessories

<sup>(6):</sup> 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*.