City Advantage CGWF/CCUF Water-Cooled Chiller

Cooling capacity: 50-700 kW

R454B R410A

City Advantage CGWF/CCUF Water-Cooled Chiller

At a Glance:

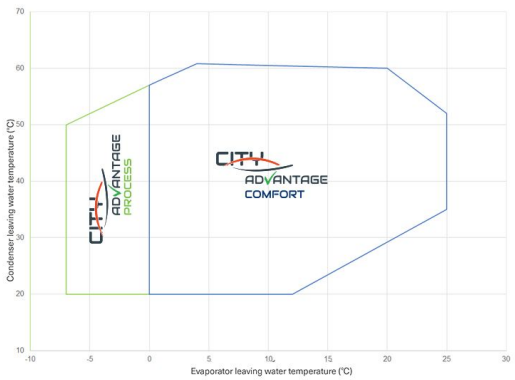
- SEER: Seasonal efficiency up to 7.31 under EN14825:2018 conditions
- Compact: 880 mm maximum width
- Quiet operation: low vibrations; available in both low or super low noise versions
- Application flexibility: condenser leaving water temperatures up to +60°C
- Single or dual refrigerant circuits with electronic expansion valve

Compact: All models fit through a standard single door

City Advantage CGWF chillers 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 demand evolves.

The chiller is also available as a condenserless version (CCUF).



Large chilled water temperature range

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 +60°C (CGWF HE)

High energy performance

All CGWF chillers pass the high seasonal energy efficiency thresholds (SEER) which have been mandatory from January 1, 2021 onwards, and are stipulated in the applicable EU Ecodesign regulation for chillers.

The City Advantage 's outstanding (seasonal) energy performance means:

- Low annual operating costs due to low electricity usage
- Sustainable HVAC system with low carbon emissions.

Effective operation, monitoring and management is optimized with Trane Symbio™ 800 controller and the intuitive navigation TD7 touch screen.

Range description

- City Advantage chillers and condenserless units are available with different cooling capacities and features that can be optimized to suit your building’s size and function.
- Your Trane Sales Engineer will be a trusted partner in helping you select the right chiller based on your specific performance criteria and available technical room space.

Technical specifications

Unit type	Water-to-water
Operating mode	Cooling only
Cooling capacity	50-700 kW
Heating capacity	-----
Eurovent certification	●
ErP Certification	●
Refrigerants	R454B | R410A

Energy saving	----
Compressor	Scroll
Data protocols	Lonmark | Bacnet | Modbus

CGWF HE R454B (Single Ciruit)

	Pc (1) kW	EER (1)	SEER (2)	ηsc (2) %	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
CGWF HE 013 - R454B	52,7	5,04	6,67	263,6	78	1555	676	1417	448
CGWF HE 015 - R454B	60,3	4,91	6,53	258,3	79	1555	676	1417	450
CGWF HE 019 - R454B	69,7	5,02	6,69	264,6	80	1555	676	1417	455
CGWF HE 023 - R454B	83,6	5,04	6,74	266,6	81	1555	676	1417	465
CGWF HE 025 - R454B	94,0	5,00	6,52	257,8	82	1555	676	1417	510
CGWF HE 029 - R454B	110,9	5,03	6,56	259,4	84	1755	810	1417	692
CGWF HE 033 - R454B	129,8	5,17	6,83	270,4	86	1755	810	1417	738
CGWF HE 037 - R454B	143,0	5,10	6,75	266,8	86	1755	810	1417	747
CGWF HE 041 - R454B	155,7	5,01	6,52	257,7	86	1755	810	1417	749

Pc: Cooling capacity
EER: Energy Efficiency Ratio (cooling)
SEER: Seasonal Energy Efficiency Ratio
ηsc: Seasonal space cooling energy efficiency
LwO: A-weighted sound power level outside
L: Length
W: Width
H: Height
OW : Operating Weight

(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/ηs,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

CGWF HE R454B (Dual Ciruit)

	Pc (1) kW	EER (1)	SEER (2)	ηsc (2) %	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
CGWF HE 042 - R454B	158,0	5,04	6,47	255,8	83	2511	882	1652	950
CGWF HE 048 - R454B	185,0	4,96	6,25	246,9	85	2511	882	1652	1043
CGWF HE 056 - R454B	217,2	4,87	6,15	243,2	87	2511	882	1652	1145
CGWF HE 064 - R454B	250,2	4,93	6,33	250,2	89	2511	882	1844	1348
CGWF HE 072 - R454B	277,5	5,04	6,53	258,3	89	2511	882	1844	1422
CGWF HE 078 - R454B	302,5	4,99	6,40	252,9	89	2511	882	1844	1425
CGWF HE 088 - R454B	331,2	4,76	6,18	244,3	92	2511	882	1844	1532
CGWF HE 096 - R454B	372,0	4,88	6,47	255,8	94	2511	882	1844	1808
CGWF HE 112 - R454B	430,9	4,96	6,53	258,1	95	2511	882	1844	1917
CGWF HE 128 - R454B	483,5	5,02	6,81	269,4	96	2511	882	1844	2038
CGWF HE 144 - R454B	563,2	4,90	6,56	259,6	96	3914	883	1953	2605
CGWF HE 162 - R454B	613,9	4,87	6,65	262,9	97	3914	883	1953	2649
CGWF HE 176 - R454B	663,4	4,83	6,52	257,8	97	3914	883	1953	2672
CGWF HE 192 - R454B	694,5	4,67	6,42	253,8	98	3914	883	1953	2706

Pc: Cooling capacity
ηsc: Seasonal space cooling energy efficiency
W: Width
EER: Energy Efficiency Ratio (cooling)
LwO: A-weighted sound power level outside
H: Height
SEER: Seasonal Energy Efficiency Ratio
L: Length
OW : Operating Weight

(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/ηs,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

CGWF SE R454B (Single Ciruit)

	Pc (1) kW	EER (1)	SEER (2)	ηsc (2) %	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
CGWF SE 013 - R454B	52,0	4,75	6,43	254,2	78	1555	676	1417	427
CGWF SE 015 - R454B	59,7	4,64	6,26	247,4	79	1555	676	1417	429
CGWF SE 019 - R454B	66,8	4,56	6,06	239,5	80	1555	676	1417	434
CGWF SE 023 - R454B	79,3	4,57	6,21	245,3	81	1555	676	1417	457
CGWF SE 025 - R454B	91,5	4,70	6,17	243,9	82	1555	676	1417	482
CGWF SE 029 - R454B	107,5	4,73	6,33	250,1	84	1755	810	1417	622
CGWF SE 033 - R454B	126,3	4,79	6,43	254,0	86	1755	810	1417	687
CGWF SE 037 - R454B	139,5	4,84	6,57	259,9	86	1755	810	1417	690
CGWF SE 041 - R454B	152,0	4,78	6,33	250,3	86	1755	810	1417	693

Pc: Cooling capacity
ηsc: Seasonal space cooling energy efficiency
W: Width
EER: Energy Efficiency Ratio (cooling)
LwO: A-weighted sound power level outside
H: Height
SEER: Seasonal Energy Efficiency Ratio
L: Length
OW : Operating Weight

(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/ηs,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

CGWF SE R454B (Dual Ciruit)

	Pc (1) kW	EER (1)	SEER (2)	ηsc (2) %	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
CGWF SE 042 - R454B	151,7	4,55	5,79	228,5	83	2511	882	1652	903
CGWF SE 048 - R454B	175,5	4,31	5,34	210,4	85	2511	882	1652	975
CGWF SE 056 - R454B	207,9	4,51	5,70	225,2	87	2511	882	1652	1073
CGWF SE 064 - R454B	245,9	4,59	5,92	233,7	89	2511	882	1652	1170
CGWF SE 072 - R454B	272,6	4,68	6,06	239,4	89	2511	882	1652	1201
CGWF SE 078 - R454B	296,7	4,60	5,84	230,7	89	2511	882	1652	1204
CGWF SE 088 - R454B	328,7	4,59	6,03	238,1	92	2511	882	1844	1458
CGWF SE 096 - R454B	356,2	4,39	5,75	227,0	94	2511	882	1844	1591

CGWF SE 162 - R454B	595,4	4,58	6,40	253,0	95	3914	883	1953	2434
CGWF SE 176 - R454B	645,6	4,65	6,47	255,8	96	3914	883	1953	2543
CGWF SE 192 - R454B	690,9	4,59	6,39	252,5	96	3914	883	1953	2653

Pc: Cooling capacity
ηsc: Seasonal space cooling energy efficiency
W: Width
EER: Energy Efficiency Ratio (cooling)
LwO: A-weighted sound power level outside
H: Height
SEER: Seasonal Energy Efficiency Ratio
L: Length
OW : Operating Weight

(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/ηs,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

CCUF R454B (Single Circuit)

	Pc (1) kW	Pec (1) kW	EER (1)	Pc (2) kW	Pec (2) kW	EER (2)	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
CCUF 013 - R454B	46,4	14,3	3,24	49,4	12,6	3,94	78	1555	676	1417	412
CCUF 015 - R454B	53,3	16,5	3,23	56,9	15,3	3,72	79	1555	676	1417	414
CCUF 019 - R454B	60,0	18,4	3,25	64,4	16,2	3,98	80	1555	676	1417	418
CCUF 023 - R454B	70,9	22,3	3,18	76,3	19,8	3,85	81	1555	676	1417	441
CCUF 025 - R454B	82,1	24,6	3,34	88,2	22,5	3,92	82	1555	676	1417	460
CCUF 029 - R454B	95,9	29,0	3,31	103,2	26,1	3,96	84	1755	810	1417	599
CCUF 033 - R454B	113,0	33,0	3,42	121,4	29,6	4,10	86	1755	810	1417	655
CCUF 037 - R454B	124,5	36,4	3,42	134,3	32,3	4,15	86	1755	810	1417	658
CCUF 041 - R454B	135,9	39,8	3,41	146,1	35,9	4,07	86	1755	810	1417	660

Pc: Cooling capacity
EER: Energy Efficiency Ratio (cooling)
W: Width
Pec: Total power input in cooling
LwO: A-weighted sound power level outside
H: Height
EER: Energy Efficiency Ratio in cooling
L: Length
OW : Operating Weight

(1): Evaporator water temperature in/out 12/7°C - Condensing temperature 45°C
(2): Evaporator water temperature in/out 12/7°C - Condensing temperature 50°C
(3): According ISO 9614:2009, without accessories
(4): Basic unit without accessories

CCUF R454B (Dual Circuit)

	Pc (1) kW	Pec (1) kW	EER (1)	Pc (2) kW	Pec (2) kW	EER (2)	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
CCUF 042 - R454B	139,4	40,9	3,41	322,9	80,2	4,03	83	2511	882	1652	865
CCUF 048 - R454B	162,9	48,6	3,35	351,6	90,4	3,89	85	2511	882	1652	929
CCUF 056 - R454B	190,5	56,8	3,35	397,2	101,3	3,92	87	2511	882	1652	1022
CCUF 064 - R454B	226,3	64,8	3,49	457,7	112,1	4,08	89	2511	882	1652	1115
CCUF 072 - R454B	249,8	71,3	3,50	522,1	135,6	3,85	89	2511	882	1652	1140

CCUF 078 - R454B	273,0	77,9	3,50	127,7	32,4	3,94	89	2511	882	1652	1143
CCUF 088 - R454B	301,0	88,9	3,39	149,2	36,9	4,05	92	2511	882	1844	1356
CCUF 096 - R454B	327,9	100,1	3,28	175,3	44,0	3,98	94	2511	882	1844	1489
CCUF 112 - R454B	370,8	112,4	3,30	204,2	51,2	3,99	95	2511	882	1844	1568
CCUF 128 - R454B	427,9	124,1	3,45	242,7	58,4	4,16	96	2511	882	1844	1646
CCUF 144 - R454B	486,5	150,2	3,24	268,5	63,7	4,21	96	3914	883	1953	2204
CCUF 162 - R454B	546,5	161,8	3,38	584,8	146,4	3,99	97	3914	883	1953	2248
CCUF 176 - R454B	590,5	174,1	3,39	632,4	157,3	4,02	97	3914	883	1953	2329
CCUF 192 - R454B	633,5	186,4	3,40	678,0	168,2	4,03	98	3914	883	1953	2420

Pc: Cooling capacity
EER: Energy Efficiency Ratio (cooling)
W: Width
Pec: Total power input in cooling
LwO: A-weighted sound power level outside
H: Height
EER: Energy Efficiency Ratio in cooling
L: Length
OW : Operating Weight

(1): Evaporator water temperature in/out 12/7°C - Condensing temperature 45°C
(2): Evaporator water temperature in/out 12/7°C - Condensing temperature 50°C
(3): According ISO 9614:2009, without accessories
(4): 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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