



CWC Water-Cooled Chiller





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Cooling capacity: 50-700 kW

Heating capacity: -----

- 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

CWC 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. CWC 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 (CWC EA ZME).

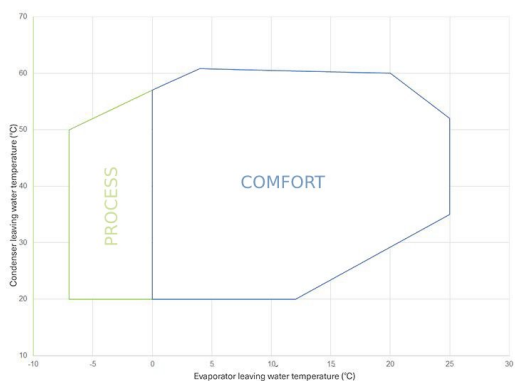


Large chilled water temperature range

CWC 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 (CWC XEA)



High energy performance

All CWC 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 CWC '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 Thermocold ThermoLogic controller and the intuitive navigation TD7 touch screen.



Range description

- CWC 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 Thermocold 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

Cooling capacity	50-700 kW
Heating capacity	-----
Eurovent certification	●
ErP Certification	●
Refrigerants	R454B R410A
Operating mode	Cooling only



Energy saving	
Compressor	Scroll

Product data

CWC XEA R454B (Single Circuit)

	Pc (1) kW	Pec (1) kW	EER (1)	SEER (2)	η_{sc} (2) %	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
CWC XEA 013 - R454B	52,7	10,5	5,04	6,67	263,6	78	1555	676	1417	448
CWC XEA 015 - R454B	60,3	12,3	4,91	6,53	258,3	79	1555	676	1417	450
CWC XEA 019 - R454B	69,7	13,9	5,02	6,69	264,6	80	1555	676	1417	455
CWC XEA 023 - R454B	83,6	16,6	5,04	6,74	266,6	81	1555	676	1417	465
CWC XEA 025 - R454B	94,0	18,8	5,00	6,52	257,8	82	1555	676	1417	510
CWC XEA 029 - R454B	110,9	22,1	5,03	6,56	259,4	84	1755	810	1417	692
CWC XEA 033 - R454B	129,8	25,1	5,17	6,83	270,4	86	1755	810	1417	738
CWC XEA 037 - R454B	143,0	28,0	5,10	6,75	266,8	86	1755	810	1417	747
CWC XEA 041 - R454B	155,7	31,1	5,01	6,52	257,7	86	1755	810	1417	749

Pc: Cooling capacity

SEER: Seasonal Energy Efficiency Ratio

L: Length

OW : Operating Weight

Pec: Total power input in cooling

η_{sc} : Seasonal space cooling energy efficiency

W: Width

EER: Energy Efficiency Ratio (cooling)

LwO: A-weighted sound power level outside

H: Height

(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_{sc} 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

CWC XEA R454B (Dual Circuit)

	Pc (1) kW	Pec (1) kW	EER (1)	SEER (2)	η_{sc} (2) %	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
CWC XEA 042 - R454B	158,0	31,4	5,04	6,47	255,8	83	2511	882	1652	950
CWC XEA 048 - R454B	185,0	37,3	4,96	6,25	246,9	85	2511	882	1652	1043
CWC XEA 056 - R454B	217,2	44,6	4,87	6,15	243,2	87	2511	882	1652	1145
CWC XEA 064 - R454B	250,2	50,8	4,93	6,33	250,2	89	2511	882	1844	1348
CWC XEA 072 - R454B	277,5	55,1	5,04	6,53	258,3	89	2511	882	1844	1422
CWC XEA 078 - R454B	302,5	60,6	4,99	6,40	252,9	89	2511	882	1844	1425
CWC XEA 088 - R454B	331,2	69,6	4,76	6,18	244,3	92	2511	882	1844	1532
CWC XEA 096 - R454B	372,0	76,2	4,88	6,47	255,8	94	2511	882	1844	1808
CWC XEA 112 - R454B	430,9	86,9	4,96	6,53	258,1	95	2511	882	1844	1917

CWC XEA 128 - R454B	483,5	96,3	5,02	6,81	269,4	96	2511	882	1844	2038
CWC XEA 144 - R454B	563,2	114,9	4,90	6,56	259,6	96	3914	883	1953	2605
CWC XEA 162 - R454B	613,9	126,1	4,87	6,65	262,9	97	3914	883	1953	2649
CWC XEA 176 - R454B	663,4	137,4	4,83	6,52	257,8	97	3914	883	1953	2672
CWC XEA 192 - R454B	694,5	148,7	4,67	6,42	253,8	98	3914	883	1953	2706

Pc: Cooling capacity

SEER: Seasonal Energy Efficiency Ratio

L: Length

OW : Operating Weight

Pec: Total power input in cooling

η_{sc} : Seasonal space cooling energy efficiency

W: Width

EER: Energy Efficiency Ratio (cooling)

LwO: A-weighted sound power level outside

H: Height

(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_{sc} 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

CWC EA R454B (Single Circuit)

	Pc (1) kW	Pec (1) kW	EER (1)	SEER (2)	η_{sc} (2) %	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
CWC EA 013 - R454B	52,0	11,0	4,75	6,43	254,2	78	1555	676	1417	427
CWC EA 015 - R454B	59,7	12,9	4,64	6,26	247,4	79	1555	676	1417	429
CWC EA 019 - R454B	66,8	14,7	4,56	6,06	239,5	80	1555	676	1417	434
CWC EA 023 - R454B	79,3	17,4	4,57	6,21	245,3	81	1555	676	1417	457
CWC EA 025 - R454B	91,5	19,5	4,70	6,17	243,9	82	1555	676	1417	482
CWC EA 029 - R454B	107,5	22,7	4,73	6,33	250,1	84	1755	810	1417	622
CWC EA 033 - R454B	126,3	26,4	4,79	6,43	254,0	86	1755	810	1417	687
CWC EA 037 - R454B	139,5	28,8	4,84	6,57	259,9	86	1755	810	1417	690
CWC EA 041 - R454B	152,0	31,8	4,78	6,33	250,3	86	1755	810	1417	693

Pc: Cooling capacity

SEER: Seasonal Energy Efficiency Ratio

L: Length

OW : Operating Weight

Pec: Total power input in cooling

η_{sc} : Seasonal space cooling energy efficiency

W: Width

EER: Energy Efficiency Ratio (cooling)

LwO: A-weighted sound power level outside

H: Height

(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_{sc} 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

CWC EA R454B (Dual Circuit)

	P _c (1) kW	P _{ec} (1) kW	EER (1)	SEER (2)	η _{sc} (2) %	LwO (3) dB(A)	L (4) mm	W (4) mm	H (4) mm	OW (4) kg
CWC EA 042 - R454B	151,7	33,3	4,55	5,79	228,5	83	2511	882	1652	903
CWC EA 048 - R454B	175,5	40,7	4,31	5,34	210,4	85	2511	882	1652	975
CWC EA 056 - R454B	207,9	46,1	4,51	5,70	225,2	87	2511	882	1652	1073
CWC EA 064 - R454B	245,9	53,6	4,59	5,92	233,7	89	2511	882	1652	1170
CWC EA 072 - R454B	272,6	58,3	4,68	6,06	239,4	89	2511	882	1652	1201
CWC EA 078 - R454B	296,7	64,5	4,60	5,84	230,7	89	2511	882	1652	1204
CWC EA 088 - R454B	328,7	71,6	4,59	6,03	238,1	92	2511	882	1844	1458
CWC EA 096 - R454B	356,2	81,1	4,39	5,75	227,0	94	2511	882	1844	1591
CWC EA 162 - R454B	595,4	130,0	4,58	6,40	253,0	95	3914	883	1953	2434
CWC EA 176 - R454B	645,6	138,8	4,65	6,47	255,8	96	3914	883	1953	2543
CWC EA 192 - R454B	690,9	150,5	4,59	6,39	252,5	96	3914	883	1953	2653

P_c: Cooling capacity

SEER: Seasonal Energy Efficiency Ratio

L: Length

OW : Operating Weight

P_{ec}: Total power input in cooling

η_{sc}: Seasonal space cooling energy efficiency

W: Width

EER: Energy Efficiency Ratio (cooling)

LwO: A-weighted sound power level outside

H: Height

(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_{sc} 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

CWC EA ZME R454B (Single Circuit)

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

CWC EA ZME 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
CWC EA ZME 042 - R454B139,4	40,9	3,41	322,9	80,2	4,03	83	2511	882	1652	865
CWC EA ZME 048 - R454B162,9	48,6	3,35	351,6	90,4	3,89	85	2511	882	1652	929
CWC EA ZME 056 - R454B190,5	56,8	3,35	397,2	101,3	3,92	87	2511	882	1652	1022
CWC EA ZME 064 - R454B226,3	64,8	3,49	457,7	112,1	4,08	89	2511	882	1652	1115
CWC EA ZME 072 - R454B249,8	71,3	3,50	522,1	135,6	3,85	89	2511	882	1652	1140
CWC EA ZME 078 - R454B273,0	77,9	3,50	127,7	32,4	3,94	89	2511	882	1652	1143
CWC EA ZME 088 - R454B301,0	88,9	3,39	149,2	36,9	4,05	92	2511	882	1844	1356
CWC EA ZME 096 - R454B327,9	100,1	3,28	175,3	44,0	3,98	94	2511	882	1844	1489
CWC EA ZME 112 - R454B370,8	112,4	3,30	204,2	51,2	3,99	95	2511	882	1844	1568
CWC EA ZME 128 - R454B427,9	124,1	3,45	242,7	58,4	4,16	96	2511	882	1844	1646
CWC EA ZME 144 - R454B486,5	150,2	3,24	268,5	63,7	4,21	96	3914	883	1953	2204
CWC EA ZME 162 - R454B546,5	161,8	3,38	584,8	146,4	3,99	97	3914	883	1953	2248
CWC EA ZME 176 - R454B590,5	174,1	3,39	632,4	157,3	4,02	97	3914	883	1953	2329
CWC EA ZME 192 - R454B633,5	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



Product data shown in this document are not binding.
Thermocold shall have the right to introduce at any time whatever modifications deemed necessary to the improvement of the product.



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