



Cooling capacity:
25–220 kW

IT Cooling Solutions

CyberAir 3PRO CW

CyberAir 3PRO CW is the result of the consistent further development of our thoroughly successful CyberAir 3 series.

With our CyberAir 3PRO CW units, we present a new series of units offering maximum potential savings – specially designed to deal with changing requirements for air and water temperatures.

Using their many years of experience with projects and requirements around the world, our engineers in Hamburg have developed a product that is outstanding in the market.

Features

- EC fans: Quiet running, long life, maintenance-free
- Filter control manager
- All parts requiring maintenance can be accessed from the front
- Compact dimensions
- C7000 controller for controlling and monitoring the air conditioning system
- Optimized filter and heat exchanger surfaces
- Optimized air and water-side pressure drops
- Dual power feed with automatic or manual switchover plus option of UPS controller buffering
- CW standby manager including shutdown of units if a defined heat load is exceeded

Benefits

- Leads the field in efficient air movement
- Leads the field in cooling capacity with maximum efficiency
- Nominal airflow rate at a fan speed optimized for partial load
- CW heat exchanger optimized for high air and water temperatures (state of the art), to extend the number of operating hours in Free Cooling mode

Technical data

CW units, Downflow (1 chilled water circuit) ASD xxx CW		430		640		940		1220		1560		2080	
Air flow	m ³ /h	7.000	9.000	10.500	13.000	15.000	19.000	19.500	24.000	25.000	29.500	34.000	39.600
CW cooling capacity (total) ²⁾³⁾ Water temperature: 12 °C/18 °C	kW	40,0	50,4	59,2	70,4	83,9	103,0	111,9	134,8	143,0	164,0	193,5	216,7
CW cooling capacity (sensible) ²⁾³⁾ Water temperature: 12 °C/18 °C	kW	40,0	50,4	59,2	70,4	83,9	103,0	111,9	134,8	143,0	164,0	193,5	216,7
EER	kW/kW	57,14	36,00	59,20	39,11	49,35	33,23	53,29	36,43	40,86	30,37	38,70	29,28
CW cooling capacity (total) ¹⁾ Water temperature: 10 °C/15 °C	kW	26,4	33,1	41,2	48,5	60,8	72,9	81,1	95,3	104,8	119,2	145,4	163,7
CW cooling capacity (sensible) ¹⁾ Water temperature: 10 °C/15 °C	kW	26,4	33,1	41,2	48,5	60,8	72,9	81,1	95,3	104,8	119,2	145,4	163,7
EER	kW/kW	37,71	23,64	41,20	26,94	35,76	23,52	38,62	25,76	29,94	22,07	29,08	22,12
CW cooling capacity (total) ¹⁾⁵⁾ Water temperature: 8 °C/15 °C	kW	25,6	29,5	37,3	42,3	50,6	58,3	65,3	74,1	86,6	95,5	115,4	126,4
CW cooling capacity (sensible) ¹⁾⁵⁾ Water temperature: 8 °C/15 °C	kW	25,6	29,5	37,3	42,3	50,6	58,3	65,3	74,1	86,6	95,5	115,4	126,4
EER	kW/kW	36,57	21,07	37,30	23,50	29,76	18,81	31,10	20,03	24,74	17,69	23,08	17,08
Noise level ⁶⁾	dBA	46	53	51	56	50	56	53	58	55	59	54	57
Fan power consumption ⁷⁾	kW	0,7	1,4	1,0	1,8	1,7	3,1	2,1	3,7	3,5	5,4	5,0	7,4
Size		1	1	2	2	3	3	4	4	5	5	7	7

CW units, Upflow (1 chilled water circuit) ASU xxx CW		430		640		940		1220		1560	
Air flow	m ³ /h	7.000	9.000	10.500	13.000	15.000	19.000	19.500	24.000	25.000	29.000
CW cooling capacity (total) ²⁾³⁾ Water temperature: 12 °C/18 °C	kW	40,0	50,4	59,2	70,4	83,9	103,0	111,9	134,8	143,0	161,7
CW cooling capacity (sensible) ²⁾³⁾ Water temperature: 12 °C/18 °C	kW	40,0	50,4	59,2	70,4	83,9	103,0	111,9	134,8	143,0	161,7
EER	kW/kW	50,00	33,60	53,82	35,20	44,16	29,43	44,76	31,35	36,67	28,37
CW cooling capacity (total) ¹⁾ Water temperature: 10 °C/15 °C	kW	26,4	33,1	41,2	48,5	60,8	72,9	81,1	95,3	104,8	117,6
CW cooling capacity (sensible) ¹⁾ Water temperature: 10 °C/15 °C	kW	26,4	33,1	41,2	48,5	60,8	72,9	81,1	95,3	104,8	117,6
EER	kW/kW	33,00	22,07	37,45	24,25	32,00	20,83	32,44	22,16	26,87	20,63
CW cooling capacity (total) ¹⁾⁵⁾ Water temperature: 8 °C/15 °C	kW	25,6	29,5	37,3	42,3	50,6	58,3	65,3	74,1	86,6	94,6
CW cooling capacity (sensible) ¹⁾⁵⁾ Water temperature: 8 °C/15 °C	kW	25,6	29,5	37,3	42,3	50,6	58,3	65,3	74,1	86,6	94,6
EER	kW/kW	32,00	19,67	33,91	21,15	26,63	16,66	26,12	17,23	22,21	16,60
Noise level ⁶⁾	dBA	49	54	53	58	53	58	55	60	57	61
Fan power consumption ⁷⁾	kW	0,8	1,5	1,1	2,0	1,9	3,5	2,5	4,3	3,9	5,7
Size		1	1	2	2	3	3	4	4	5	5

Dimensions and number of fans

Size	1	2	3	4	5	7	
Width	mm	950	1.400	1.750	2.200	2550	3.110
Height	mm	1.980	1.980	1.980	1.980	1.980	1.980
Depth	mm	890	890	890	890	890	980
Number of fans		1	1	2	2	3	4

Humidifier output and heating capacity

Size	1	2	3	4	5	7	
Max. humidifier capacity	kg/h	8	8	15	15	15	15
Max. no of heating steps		1	1	2	2	3	3
Heating capacity step 1	kW	6/9	6/9	6/9	6/9	6/9	6/9
Heating capacity step 2	kW	-	-	6/9	6/9	6/9	6/9
Heating capacity step 3	kW	-	-	-	-	6/9	6/9
Max. overall heating capacity	kW	9	9	18	18	27	27

ESP (external static pressure) for downflow units and 380–415 V/3 ph/50 Hz with 20 Pa ESP (external static pressure) for downflow units and 50 Pa ESP for upflow units

¹⁾ Return air conditions: 26 °C/40 % r.h.; glycol: 0 %

²⁾ Return air conditions: 33 °C/30 % r.h.; glycol: 0 %

³⁾ Data apply to units with optional cooler B.

⁴⁾ Return air conditions: 30 °C/30 % r.h.; glycol: 0 %

⁵⁾ Data apply to units with optional cooler C.

⁶⁾ Noise level at 2 m distance, free field

⁷⁾ The electric power input of the fans must be added to the room load

