



IT Cooling Solutions

Compact Plus CW

Close Control Air Conditioning for
High-end Applications



Compact Plus CW – Precision Air Conditioning

If you have to remove high heat loads and are looking for a highquality solution that is also kind to your budget, then you have found the right solution with Compact Plus CW. The units are easy to install and, because they are accessible from the front, can be maintained without problems. Thanks to the compact form, Compact CW fits in every technology room.

And: depending on the performance you need, a STULZ air conditioning system can be flexibly expanded.

Compact Plus CW precision air conditioning units will provide an ideal and economic solution to maximize the cooling efficiency.



- 1 Optimised CW heat exchanger with low air and water-side pressure drop
- 2 C7000 Controller
- 3 Steam humidifier (optional)
- 4 Adjustable air flow through transformer
- 5 AC fan (direct drive) with optional electric heater

Compact Plus CW

The advantages at a glance:

- AC fans with direct drive
- STULZ C7000 controller
- High efficiency Zig-Zag filter and low pressure drop
- Front service access only

Technical Data Compact Plus CW

CPD xxx CW		310	410	540	680	760	910	1020	1150	1210	1510	1860	2120
Air flow	m³/h	6,900	8,400	9,700	11,300	14,800	17,800	18,000	19,500	23,000	27,500	32,000	35,500
CW cooling capacity (total) ¹⁾ Water temperature: 7°C/12°C	kW	33.3	39.9	52.5	60.6	77.4	93.6	105.3	113.1	128.5	152.9	170.2	187.6
CW cooling capacity (sensible) ¹⁾ Water temperature: 7°C/12°C	kW	27.8	33.6	41.7	48.3	62.3	75.2	80.5	87.2	100.5	119.7	135.9	150.5
Hydraulic pressure drop ¹⁾ Water temperature: 7°C/12°C	kPa	42	59	59	79	31	45	52	60	86	122	65	79
CW cooling capacity (total) ^{1) 3)} Water temperature: 10°C/15°C	kW	25.6	29.6	36.8	41.4	50.9	60.4	70.4	76.7	79.2	96.1	127.9	138.0
CW cooling capacity (sensible) ^{1) 3)} Water temperature: 10°C/15°C	kW	24.2	28.4	34.7	39.3	50.9	60.4	66.1	71.5	79.0	94.0	118.4	129.6
Hydraulic pressure drop ^{1) 3)} Water temperature: 10°C/15°C	kPa	100	129	124	154	35	47	79	91	58	84	89	104
Max. available ESP	Pa	290	30	210	30	290	20	190	60	290	30	200	30
Noise level ²⁾	dBA	51.5	56.0	51.6	60.3	52.7	58.2	61.8	64.3	51.3	64.7	64.4	67.6
Fan absorbed power ⁴⁾	kW	1.8	2.5	2.3	2.9	3.6	4.8	3.8	4.3	5.3	7.1	8.1	9.6
Weight	kg	315		365		472		570		670		810	
Number of fans		1		2		2		2		3		4	
Size (WidthxHeightxDepth)	mm	950x1,980x890		1,400x1,980x890		1,750x1,980x890		2,200x1,980x890		2,550x1,980x890		3,000x1,980x890	
Humidifier output and heating capacity													
Max. humidifier capacity		8				15							
Max. no of heating steps		1				2				3			
Max. overall heating capacity		9				18				27			
CPU xxx CW													
Air flow	m³/h	6,500	8,000	9,900	10,900	15,100	17,000	18,000	19,000	23,000	26,000		
CW cooling capacity (total) ¹⁾ Water temperature: 7°C/12°C	kW	29.0	35.4	50.5	56.1	72.9	83.1	94.6	100.3	122.7	138.2		
CW cooling capacity (sensible) ¹⁾ Water temperature: 7°C/12°C	kW	25.2	30.8	41.2	45.5	61.2	69.0	75.9	80.2	97.6	110.3		
Hydraulic pressure drop ¹⁾ Water temperature: 7°C/12°C	kPa	33	50	59	74	31	39	51	57	69	88		
CW cooling capacity (total) ^{1) 3)} Water temperature: 10°C/15°C	kW	22.8	27.3	34.1	38.1	49.8	55.6	64.0	68.1	80.4	89.8		
CW cooling capacity (sensible) ^{1) 3)} Water temperature: 10°C/15°C	kW	22.2	26.7	34.1	37.5	49.8	55.6	62.7	66.2	80.4	89.8		
Hydraulic pressure drop ^{1) 3)} Water temperature: 10°C/15°C	kPa	77	108	90	112	33	40	62	69	51	64		
Max. available ESP	Pa	250	60	170	50	230	60	150	60	230	50		
Noise level ²⁾	dBA	51.4	55.9	56.6	61.7	54.8	58.1	63.1	64.7	57.3	66.1		
Fan absorbed power ⁴⁾	kW	1.8	2.5	2.5	3.0	4.1	4.9	4.2	4.6	6.1	7.3		
Weight	kg	315		375		495		585		710			
Number of fans		1		2		2		2		3			
Size (WidthxHeightxDepth)	mm	950x1,980x890		1,400x1,980x890		1,750x1,980x890		2,200x1,980x890		2,550x1,980x890			
Humidifier output and heating capacity													
Max. humidifier capacity		8				15							
Max. no of heating steps		1				2				3			
Max. overall heating capacity		9				18				27			

Remarks: All data apply at 400 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: 24°C, 50% r. h.; glycol: 0%

²⁾ Noise level at 2 m distance, free field

³⁾ Data apply to units with optional high-powered cooler

⁴⁾ The electric power input of the fans must be added to the room load

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IT Cooling Solutions

Close to you all over the world.

... With specialist, competent partners in our subsidiaries and exclusive sales and service partners around the world. Our five production sites are in Europe, North America and Asia.