



IT Cooling Solutions

# CyberAir CWE/CWU

Precision air-conditioner unit for  
chilled water operation



# Energy efficiency in two sizes

CyberAir CWE/CWU air-conditioning systems deliver maximum cooling capacity. Each unit is made up of two modules, and with their standard door format they are easy to transport and flexible in their data centre installation options. Maintenance-free high-efficiency EC fans inside the separate module and variable control concepts greatly reduce energy consumption and cut operating costs.



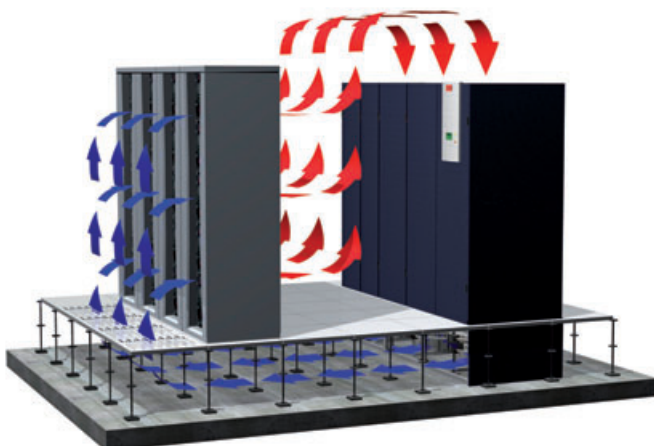
New: CyberAir ASD 2050 CWU with new fibreglass-reinforced plastic wheel fan

Working in combination with modern, free cooling chillers, STULZ CyberAir CWE/CWU air conditioners ensure energy-efficient operation and, depending on the system's location, can considerably reduce the running costs of the system as a whole.

When planning the system layout, an allowance should be made for high chilled water temperatures, to ensure that the proportion of Free Cooling can be maximised to suit the annual operating hours.

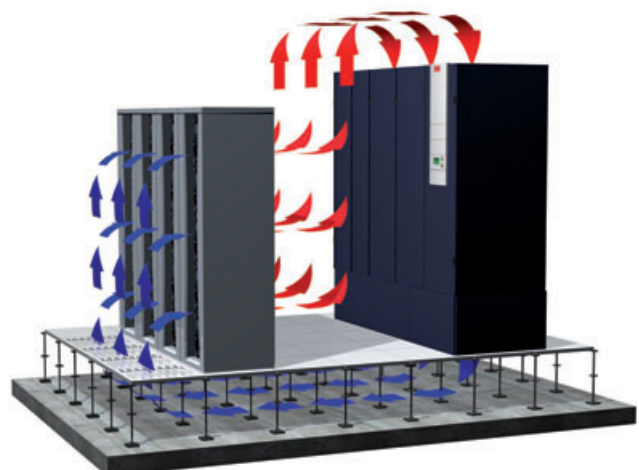
## Other technical features of the CyberAir CWE/CWU series

- Maximum useful cooling capacity with greatly reduced power input
- Flexible installation according to available space and site conditions
- C7000 controller/CW standby management
- Very service-friendly, with front access
- Energy-optimised heat exchanger for high water and return air temperatures



### CWU version:

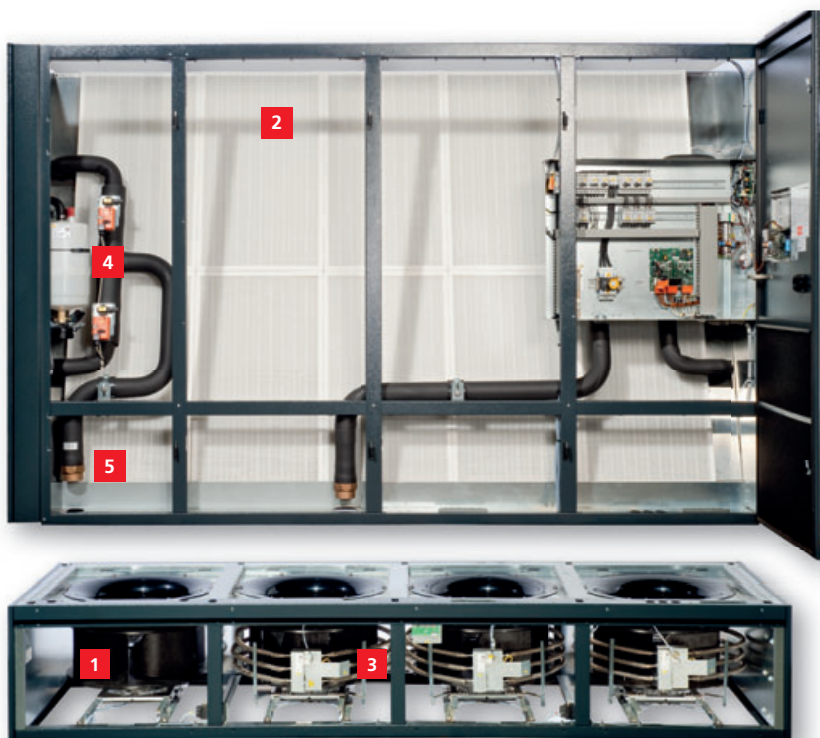
Fan unit installed under raised floor (power input of fans is up to 35% less than when installed on the raised floor)



### CWE version:

Fan unit installed on raised floor when height of raised floor is insufficient

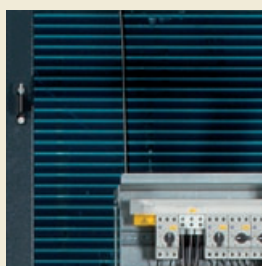
# CyberAir CWE/CWU



- 1** Reduced fan power consumption thanks to a new fan size with a diameter of 595 mm
- 2** More cooling capacity with optimised coil and filter surface
- 3** 4 EC fans with fibreglass-reinforced plastic wheel
- 4** 2-way valve
- 5** Different pipe connections available



EC fan with fibreglass-reinforced composite wheel



Coil with hydrophilic cooling fins



EC fan with optional electric heater



C7000 IOC with optional expansion board

## Technical data of CyberAir CWE / CWU

Unit type		ASD 2050 CWE/CWU				ASD 2400 CWE/CWU			
Cooling capacity (total)	kW	196.8	217.7	213.3	238.4	222.1	233.4	237.4	250.4
Cooling capacity (sensible)	kW	166.5	217.7	183.7	238.4	182.0	233.4	196.1	250.4
Air flow	m <sup>3</sup> /h	42,000	42,000	47,000	47,000	44,000	44,000	48,000	48,000
Return air temperature	°C	24	30	24	30	24	30	24	30
Return air humidity	% rel.	50	30	50	30	50	30	50	30
Medium inlet temperature	°C	7	10	7	10	7	10	7	10
Medium outlet temperature	°C	12	15	12	15	12	15	12	15
Glycol content	%	0							
Number of fans (data per unit)		4							
Power consumption CWE <sup>1</sup>	kW	8.1	8.1	11.3	11.3	8.7	8.7	11.2	11.2
Power consumption CWU <sup>1,2</sup>	kW	6.2	6.2	8.6	8.6	6.5	6.5	8.4	8.4
Width	mm	3,110				3,350			
Height	mm	2,495				2,495			
Depth	mm	980				980			
Humidifier capacity max.	kg/h	15							
Filter class		F5							
<b>Heater</b>									
Max. heating steps		3				3			
Max. heating capacity per step	kW	9				9			
Max. overall heating capacity	kW	27				27			

Remarks: All data apply at 400 V/3 ph/50 Hz with 20 Pa ESP (external static pressure)

<sup>1</sup> The electric power consumption of the fans must be added to the room load

<sup>2</sup> Measured at a height of raised floor = 900 mm



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## IT Cooling Solutions

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... 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.