

# Fan Wall Chilled Water Smart Cooling Solution

FusionCol8000-C110/220

## INTRODUCTION

The FusionCol8000-C is an in-room chilled water cooling solution for large data centers. It is part of the chilled water cooling system working with chillers, water pumps and etc. Horizontal air flow, higher water temperature, efficient fans and heat exchanger helps to bring more efficient cooling to data centers.

## APPLICATION SCENARIOS

- Large cloud data center
- Large and medium modular data center
- Large and medium equipment room

## FEATURES

### Green

- High in/out chilled water temperature up to 20/28 °C, reducing cooling power consumption.
- Efficient EC fans save up to 30% energy compared with traditional AC fans.

### Reliable

- Full load THDi < 5%<sup>1</sup>, power factor up to 0.99, reducing power distribution capacity and improving power supply stability.
- Dual power supply with automatic switch. "0" cooling interruption during power switch.

### Simple

- Horizontal air flow. No need to deploy raised floor.
- Modular design, flexible combination of multiple modules, adapting to various cooling requirements and building layouts.
- The controller, DC power, and fan driver adopt modular hot-swappable design and support minute-level maintenance without cooling interruption risk.
- Full front maintenance, supporting side-by-side installation.

### Smart

- Fault self-diagnosis and intelligently eliminate root causes of irrelevant faults, saving O&M time.
- Real-time display of electrical power, supporting integration of AI energy efficiency optimization system<sup>2</sup>.



FusionCol8000-C  
(Return air side)



FusionCol8000-C  
(Supply air side)

Remark:

1. For a standalone "module A", THDi < 10%.
2. This function works with Huawei iCooling@AI solution. For details, please contact sales support.

## SPECIFICATIONS

Parameters	Unit	Unit A: FusionCol8000- C110H4	Unit A: FusionCol8000- C110H4  Unit A1: FusionCol8000- C110H4	Unit B: FusionCol8000- C220H4	Unit B : FusionCol8000- C220H4  Unit C: FusionCol8000- C110H4	Unit A: FusionCol8000- C110H4  Unit A1: FusionCol8000- C110H4
Combination of Modules	-	 Unit A	 Unit A + Unit A1	 Unit B	 Unit B + Unit C	 Unit A + Unit A1 x3
Air Flow	-	Horizontal				
Total Cooling Capacity	kW	110	220	220	340	440
Quantity of Fans	-	2	4	4	6	8
Air Flow Rate	m <sup>3</sup> /h	26500	53000	53500	81000	106000
Power Supply	V/Ph/Hz	380V AC ~ 415V AC, 3Ph+PE, 50Hz/60Hz				
Rate Power	kW	5.2	10.4	10.3	15.9	20.9
Air Filter Class	-	G4				
Dimension: H×W×D	mm	2000×2000× 1600	4000×2000× 1600	2300×3100× 1600	3600×3100× 1600	4000×4000× 1600
Net Weight	kg	1090	2090 (1090+1000)	1700	2775 (1700+1075)	4090 (1090+1000× 3)

Nominal condition: return air temperature 36°C, 25% RH, supply/return water temperature 20 °C/28 °C, external static pressure 80Pa.

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