

# HeartAir Series

## Rack Mounted precision Cooling



### Introduction

The Rack Mounted precision cooling is a new generation of rack level data center temperature control products. Mainly used in single cabinet and single in-row data center scenarios, including cabinet equipment, server equipment, and communication equipment.



### Characteristics

- **High Efficiency**

Large area evaporator, superior airflow organization, and higher heat transfer efficiency. The equipment provides an efficient, continuous, and stable temperature and humidity environment. Infinite dynamic output of refrigeration capacity, maximizing energy savings.

- **Reliable**

Using R410A refrigerant. Principles for selecting highly reliable components. A precisely designed system and rigorous testing and verification ensure safe 24x7 operation frequent on-off of air conditioning.

- **Convenient**

Compact structure.  
Rack mounted pull-out design.  
Support online expansion of cabinets.  
Support call auto start.  
Support timed on/off and other functions.  
Standard RS485 interface, supports remote control.

Indoor unit model	DCH003 (split type)	DCH007 (split type)	DCH012 (split type)	DH003 (integrated)
Total cooling capacity (kW)	3.7	7.5	12.5	3.7
Sensible cooling capacity (kW)	3.7	7.5	12.5	3.7
Air volume m <sup>3</sup> /h	700	1350	2300	700
Air supply method	Three side air supply (up+left+right)			
Expansion valve type	Electronic expansion valve			
Fan type	EC fan			AC fan/EC fan
Compressor type	DC frequency conversion			Fixed/variable frequency
Evaporator type	V-shaped			Type "I"
Refrigerant type	R410A			
Heating capacity (kW)	1.0	1.5	3.0	1.0
Humidification capacity (kg/h)	0.5	1.0	1.5	/
Power type	200V-240V ~50/60Hz 1 phase			
Distribution parameter FLA (A)	13.6 (Constant Temp.) 13.7 (Constant temp. & H)	27 (Constant Temp.) 27.5 (Constant temp. & H)	30 (Constant Temp.) 30.5 (Constant temp. & H)	13.6 (Constant Temp.)
Unit weight (kg)	26	35	47	58
Indoor unit dimensions: W x D x H (mm)	440×800×219(5U)	440×800×310(7U)	440×800×440(10U)	440×980×352(8U)/ 440×980×400(9U)
Supporting outdoor unit				
Outdoor unit model (Nominal conditions)	FA006APM	FA012APM	FA018APM	(No separate outdoor unit)
Power type	200V-240V ~50/60Hz 1phase			
Unit weight (kg)	38	43	65	/
Dimensions(external unit): L x W x H (mm)	880×340×605	880×380×720	990×440×1250	/

Remarks: 1. The above parameters are based on indoor return air conditions of 37 °C, 24% RH, and outdoor ambient temperature of 35 °C;

2. The FLA parameter is the full load current of the standard model, which includes the outdoor unit current. The outdoor unit needs to be powered from the indoor unit;

3. Constant temperature/constant temperature and humidity units are optional;