HyperAir Series

In-row Precision Cooling



Introduction

The HyperAir series precision cooling is an intelligent temperature control product for data centers, developed byACwatt. It offers easy expansion, high energy efficiency with variable frequency, intelligent output, and safe operation. Suitable for data centers, it ensures a reliable and secure environment for critical infrastructure and precision equipment.

Features

High Efficiency

- Efficient DCVF compressor and EC fan provide a stepless dynamic cooling output.
- The cooling efficiency is enhanced by a special return air temperature design.
- R410A refrigerant, international standard, environmentally friendly.

Simple

- 7" HMI colour touchscreen for easy operation and real-time display of information.
- CAN communication protocol, supports control of at least 64 units.
- The intelligent system automatically adjusts cooling output.
- Hierarchical password permissions, facilitating operation and maintenance management.

Reliable

- High-strength structural frame, sturdy and durable.
- Strict quality control of components to ensure quality.
- Rigorous testing and validation to guarantee operational safety.

Indoor Unit(HA Series)	012	025	030	040	050	060
Total Cooling Capacity (kW)	12.6	25.6	30.6	42.9	51.1	63.0
Sensible Cooling Capacity (kW)	12.6	25.6	30.6	42.9	51.1	63.0
Air Flow Rate m3 /h	2850	5080	5250	8580	10600	11600
Fan Type	EC Fan					
Quantity of Fans（pcs）	4	6	6	2	3	3
Compressor Type	DC Variable Frequency Compressor					
Expansion Valve Type	Electronic Expansion Valve					
Refrigerant Type	R410A					
Heating Capacity (kW)	3.0	4.5	4.5	6.0	6.5	6.5
Humidifier Capacity (kg/h)	3.0	3.0	3.0	3.0	3.0	3.0
Power Supply	380V/3N~50Hz					
Single Cooling Power Supply FLA (A)	19.0	23.2	29.2	30.1	34.8	43.8
Constant Temperature and Humidity Power Supply FLA (A)	22.9	27.9	34.0	37.6	42.0	51.0
Net Weight (kg)	200	225	235	305	335	350
Dimension: W×D×H (mm)	300*1200*2000	300*1200*2000	300*1200*2000	600*1200*2000	600*1200*2000	600*1200*2000
Conventional Outdoor Unit						
Outdoor Unit Model (Nominal condition)	FA020APN	FA040APN	FA046APN	FA058APN	FA078APN	FA090APN
Quantity of Fans（pcs）	2	1	1	1	2	2
Net Weight（kg）	49	135	139	150	176	185
Dimension:W×D×H (mm)	830*330*1245	1376*980*738	1576*1274*748	1776*1274*748	2176*1274*738	2376*1274*748
Centralized Outdoor Unit(Not one-to-one correspondence)						
Outdoor Unit Model （Nominal condition）	FA046AVN	FA058AVN	FA068AVN	FA078AVN	FA090AVN	FA098AVN
Quantity of Fans（pcs）	1	1	1	1	1	1
Net Weight（kg）	140	150	166	176	186	196
Dimension: W×D×H (mm)	1098*1098*1684	1098*1098*1684	1098*1098*1774	1098*1098*1774	1298*1098*1774	1298*1098*1774

Note：

1. Nominal condition: indoor: return air temp. 37ºC/RH24%, outdoor: 35ºC.
2. The FLA parameter is the full load current of the standard model, including the outdoor unit current.
3. Only the constant temperature and humidity model has the function of heating and humidification.
4. Customized products are available, if you need more parameters, please contact us.

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