

# Heart Air Room

## Large Room Precision Cooling



### Introduction

Hbit's HARoom series is an advanced cooling solution for medium to large data centers, communication rooms, battery rooms, UPS rooms, and industrial equipment rooms. It provides efficient and reliable temperature control, ensuring a secure and stable environment for critical infrastructure and precision equipment.

### Features

#### High Efficiency

- Full frequency conversion system design, high sensible heat ratio, high energy efficiency ratio. Efficient DCVF compressor and EC fan provide a stepless dynamic cooling output.
- Utilize a V or A-shaped evaporator for high heat exchange efficiency.
- Variable-speed outdoor unit, the system operates consistently in high-efficiency mode.
- R410A refrigerant, international standard, environmentally friendly.

#### Simple

- 7" HMI colour touchscreen for easy operation and real-time display of information.
- Standard RS485 interface, optional SNMP interface, supports management of at least 64 units.
- Hierarchical password permissions, facilitating operation and maintenance management.
- Modular design, convenient for disassembly and assembly, no need to cut copper pipes.

#### Reliable

- High-strength structural frame, sturdy and durable.
- Strict quality control of components to ensure quality.
- Rigorous testing and validation to guarantee operational safety.
- Multi-voltage compatibility reduces frequent start-stop operations of the devices.

Indoor Model (HA Series)	HAH025RO	HAH030RO	HAH035RO	HAH040RO	HAH045RO	HAH050RO	HAH060RO
Total Cooling Capacity KWJ	27.1	30.6	36.3	41.2	45.3	51.2	60.2
Sensible Cooling Capacity KWJ	24.9	27.6	33.4	38.1	41.2	47.1	54.1
Air Volume m/h	8550	9550	11100	12100	12550	13100	14000
Compressor Type	DC Variable Frequency Compressor (Single System)						
Compressor Number pcs	1	1	1	1	1	1	1
Fan Type	High Efficiency EC Fans						
Fan Number pcs	1	1	1	1	1	1	1
EEV	High Efficiency Electronic Expansion Valve						
Refrigerant	R410A						
Heating Capacity kW	6	6	6	9	9	9	9
Humidification Capacity kg/h	5	5	5	10	10	10	10
Power Supply Type	380V/3N 60Hz						
FLA (A)	36.5	40.8	41.6	45.7	50.0	54.5	64.6
Indoor Unit Weight (kg)	320	325	350	370	370	470	470
Dimension W D H (mm)	900*995*1975					1100*995*1975	
Outdoor Model (Nominal condition)	HAHR035APN	HAHR040APN	HAHR050APN	HAHR058APN	HAHR068APN	HAHR068APN	HAHR090APN
Power Supply Type	380V/3N-50HZ						
Outdoor Weight(kg)	126	135	140	150	166	166	185
Dimension W D H (mm)	1376*980*738	1376*980*738	1576*1274*748	1776*1274*748	1976*1274*738		2576*1274*748

Indoor Model (HA Series)	HAH060RO	HAH070RO	HAH080RO	HAH090RO	HAH100RO	HAH110RO	HAH120RO
Total Cooling Capacity kW	60.9	72.2	82.1	90.5	102.1	110.2	120.0
Sensible Cooling Capacity kW	55.0	66.5	76.0	82.1	94.0	100.1	108.0
Air Volume <m <sup>3</sup> /h	19000	22000	24000	25000	26000	27000	28000
Compressor Type	DC Variable Frequency Compressor (Dual System)						
Compressor Number pcs	2	2	2	2	2	2	2
Fan Type	High Efficiency EC Fans						
Fan Number pcs	2	2	2	2	2	2	2
EEV	High Efficiency Electronic Expansion Valve						
Refrigerant	R410A						
Heating Capacity kW	9	9	12	12	12	12	12
Humidification Capacity kg/h	10	10	10	10	10	10	10
Power Supply Type	380V/3N 50Hz						
FLA (A)	68.6	70.3	79	86.8	96.0	106.0	116.0
Indoor Unit Weight (kg)	600	650	690	690	880	880	880
Dimension WxDxH (mm)	1800*995*1975					2200*995*1975	
Outdoor Model (Nominal condition)	HAHR050APN*2	HAHR050APN*2	HAHR058APN*2	HAHR068APN*2	HAHR068APN*2	HAHR078APN*2	HAHR090APN*2
Power Supply Type	380V/3N-60HZ						
Outdoor Weight (kg)	185	140*2	150*2	166*2	166*2	176*2	185*2
Dimension W D H (mm)	2576 1274 748	(1576*1274*748)*2	(1776*1274*748)*2	(1976*1274*738)*2	(1976*1274*738)*2	(2176*1274*738)*2	(2576*1274*748)*2

1. The above parameters are based on indoor return air working conditions of 24 °C, 50% RH, outdoor ambient temp. 35 °C;
2. The upper air supply unit has two air supply methods: Upflow air supply and top front air supply;
3. The default fan of the Downflow supply fan is sunken type, and the recommended net height of the floor is ≥ 400mm;
4. Customized products can be provided, if you need more parameters, please contact our company.

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