

Features

High efficiency

- In-room direct expansion precision air conditioner, on/off or DC inverter compressor optional .
- In-row direct expansion precision air conditioner, full DC inverter compressor.
- High efficiency EC fan, low noise, low running cost.
- Electronic expansion valve, wide adjustment range, accurate control.

Smart control

- 7 inch touch screen.
- Standard RS485 port and modbus protocol.
- Smart group control, load balancing.
- Optional SNMP Protocol.
- Maximum 32 group control units.

Flexible configuration

- Optional centralized condenser, space saving.
- Optional outdoor spray system.
- Optional fluorine pump free cooling mode.

Module design

- Modular design, flexible installation.

Humidifier

- Standard wet film humidifier, low running cost.
- Energy saving, easy maintenance.
- Optional electrode humidifier.
- Optional infrared humidifier.



Applicaitons

- Small/medium/large server room.
- Communications computer room.
- Information data center(IDC).
- Internet server room.
- UPS and battery room.
- High-tech environment and laboratory.
- Standard test room & calibration center.
- Industrial control room & precision equipment room.
- Constant temperature & humidity process environment.

3+2 Mode, Dynamic Cooling

Air cooled condenser(panel type)



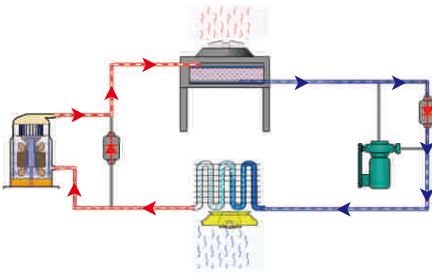
Air cooled condenser(V type)



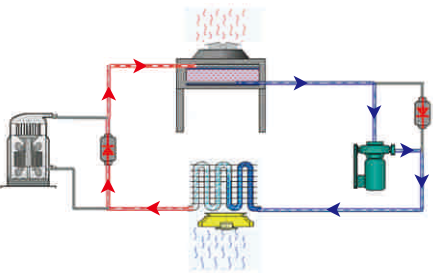
Air cooled condenser(fluorine pump)



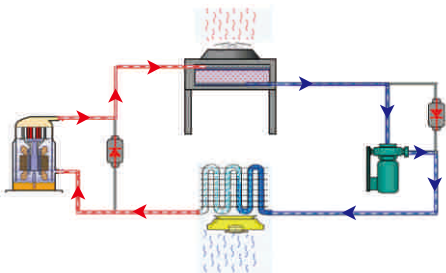
Compressor mode



Fluorine pump mode



Mixed mode



Water spray system

- Water spray system is a design using spray water to reduce the condenser temperature to achieve high energy efficiency.
- In compressor mode or mixed mode, water spray system can be turned on.
- It is an optional function only applicable in V type air cooled condenser.

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Precision air conditioner

Specification

In-room Direct expansion precision air conditioner (on-off)

Unit model	Unit	HM 025A	HM 030A	HM 035A	HM 040A	HM 045A	HM 050A	HM 060A	HM 070A	HM 080A	HM 090A	HM 100A
Air discharge direction	-	Upflow, Downflow										
Cooling capacity	kW	26.4	31.5	36.1	40.55	45.7	52.7	62.9	72.3	80.2	91.6	100.2
Sensible cooling capacity	kW	24.5	29.2	33.4	36.82	41.6	48.9	58.2	66.6	72.8	83.4	91.6
System quantity	-	Single					Dual					
Air flow	m³/h	7500	9000	10500	11500	12000	15000	18000	21000	23000	24000	25600
Dimensions (WxDxH)	mm	900x1000x1980					1800x1000x1980					
Net weight	kg	355	370	375	380	390	665	695	705	715	735	755

Outdoor unit

Air cooled condenser (Panel type)	Unit	SW 40NP	SW 50NP	SW 50NP	SW 50NP	SW 70NP	2xSW 40NP	2xSW 50NP	2xSW 50NP	2xSW 50NP	2xSW 70NP	2xSW 70NP
Dimensions (mm)	W	1650	1650	1650	1650	2010	1650	1650	1650	1650	2010	2010
	D	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
	H	730	730	730	730	710	730	730	730	730	710	710
Net weight	kg	158	168	168	168	210	2x158	2x168	2x168	2x168	2x210	2x210

- Notes:
- Nominal cooling condition: Return air dry bulb temperature 24℃/RH50%, ambient temperature 35℃.
 - Data are subject to change without prior notice.

In-room Direct expansion precision air conditioner (DC inverter)

Unit Model	Unit	HM030AV	HM045AV	HM060AV	HM090AV	HM120AV
Air discharge direction	-	Upflow, Downflow				
Cooling capacity	kW	25.1	40.5	50.5	80.6	100.9
Sensible cooling capacity	kW	24.2	36.9	45.8	73.4	91.8
System quantity	-	Single			Dual	
Air flow	m³/h	9000	11000	13000	22000	26000
Dimensions (WxDxH)	mm	1100×1000×2000	1100×1000×2000	1100×1000×2000	2200×1000×2000	2200×1000×2000
Net weight	kg	320	330	340	670	680

Outdoor unit

Air cooled condenser (Panel type)	Unit	SW50NPHM	SW60NPHM	SW80NPHM	2xSW60NPHM	2xSW80NPHM
Dimensions (WxDxH)	mm	1650×1100×730	2010×1100×710	2700×1110×681	2010×1110×710	2700×1110×681
Net Weight	kg	168	196	256	392	512
Air cooled condenser (V type)	Unit	SW50 NVHM	SW70 NVHM	SW090 NVHM	SW140 NVHM	SW180 NVHM
Dimensions (WxDxH)	mm	1080×1080×1745	1080×1080×1745	1080×1080×1874	1080×1080×1745	1080×1080×1874
Net Weight	kg	168	188	198	376	396
Air cooled condenser (V type with fluorine pump)	Unit	SW50 NVHMP	SW70 NVHMP	SW090 NVHMP	SW140 NVHMP	SW180 NVHMP
Dimensions (WxDxH)	mm	1280×1080×2200	1280×1080×2200	1280×1080×2200	1280×1080×2200	1280×1080×2200
Net Weight	kg	260	320	380	630	750

- Notes:
- Nominal cooling condition: Return air dry bulb temperature 24℃/RH50%, ambient temperature 35℃.
 - Data are subject to change without prior notice.
 - V type is higher efficient than Panel type.



In-row Direct expansion precision air conditioner (DC inverter)

Unit model	Unit	HM25RA	HM35RA	HM40RA	HM50RA	HM60RA
Air discharge direction	-	Front				
Cooling capacity	kW	25.8	35.8	42.5	52.5	62.6
Sensible cooling capacity	kW	25.8	35.8	42.5	52.5	62.6
System quantity	-	Single				
Air flow	m³/h	5000	6000	8500	10500	12000
Dimensions (WxDxH)	mm	300×1200×2000	300×1200×2000	600×1200×2000	600×1200×2000	600×1200×2000
Net weight	kg	246	250	332	352	345

Outdoor unit

Air cooled condenser (Panel type)	Unit	SW40NP	SW50NP	SW60NP	SW70NP	SW80NP
Dimensions (WxDxH)	mm	1650×1094×730	1650×1094×730	2010×1094×710	2010×1094×710	2690×1094×681
Net Weight	kg	158	168	196	210	256
Air cooled condenser (V type)	Unit	SW50NVHM	SW70NVHM	SW70NVHM	SW70NVHM	SW90NVHM
Dimensions (WxDxH)	mm	1080×1080×1745	1080×1080×1745	1080×1080×1745	1080×1080×1745	1080×1080×1874
Net Weight	kg	168	188	188	188	198
Air cooled condenser (V type with fluorine pump)	Unit	SW50NVHMP	SW50NVHMP	SW70NVHMP	SW70NVHMP	SW90NVHMP
Dimensions (WxDxH)	mm	1280×1080×2200	1280×1080×2200	1280×1080×2200	1280×1080×2200	1280×1080×2200
Net Weight	kg	178	178	320	320	380

- Notes:
- Nominal cooling condition: Return air dry bulb temperature 37℃/RH24%, ambient temperature 35℃.
 - Data are subject to change without prior notice.
 - V type is higher efficient than Panel type.

In-room Chilled water precision air conditioner

Unit model	Unit	HM040C	HM060C	HM100C	HM120C	HM180C	HM200C
Air discharge direction	-	Upflow, Downflow					
Cooling capacity	kW	43.7	59.7	97.8	114.8	171.3	205.3
Sensible cooling capacity	kW	34.2	49.2	77.8	93.8	137.4	156.8
System quantity	-	Single					
Air flow	m³/h	8000	13000	19000	25000	35000	37500
Water pipe connection size	A	DN32	DN40	DN40	DN50	DN65	DN80
Dimensions (WxDxH)	mm	900×1000×1980	900×1000×1980	1800×1000×1980	1800×1000×1980	2700×1000×1980	2700×1000×1980
Net weight	kg	320	330	600	620	905	920

- Notes:
- Nominal cooling condition: Return air dry bulb temperature 24℃/RH50%, Inlet/Outlet water temperature 7℃/12℃.
 - Data are subject to change without prior notice.

In-row Chilled water precision air conditioner

Unit model	Unit	HM30RC	HM80RC
Air discharge direction	-	Front	
Cooling capacity	kW	32.9	61.4
Sensible cooling capacity	kW	32.9	61.4
System quantity	-	Single	
Air flow	m³/h	5000	8500
Water pipe connection size	mm	DN25	DN32
Dimensions (WxDxH)	mm	300×1200×2000	600×1200×2000
Net weight	kg	170	335

- Notes:
- Nominal cooling condition: Return air dry bulb temperature 37℃/RH24%, Inlet/Outlet water temperature 10℃/15℃.
 - Data are subject to change without prior notice.

