



In-Room Precision Air Conditioner





■ Product Description

HM Series In-Room Precision Air Conditioner mainly provide high-precision temperature and humidity control for large, medium and small data rooms, which is energy saving, safe and reliable with intelligent management. The compact structure and advanced techniques satisfy the cooling request of modern IT room.



■ Application

Applied in various fields of central computer room, data center and computer room, communication equipment room, network room medical equipment room, industrial control room and precision machining equipment, UPS and battery room.

■ Feature

- Products have air cooling , water cooling, frozen water type, cooling capacity coverage of 7 ~ 200kW.
- Intelligent microcomputer, refrigeration system hierarchical design, cooling capacity intelligent adjustment.
- High efficiency scroll compressor, low vibration, noise and high reliability characteristics, using R410A environmental protection refrigerant.
- The 7-inch large touch screen dynamically displays the real-time running status of the unit.
- CAN bus networking technology, 32 of group control, perfect automatic alarm and diagnosis function.
- Standard PTC electric heating, wet film humidification, safe and reliable, energy saving and efficient.
- Using EC centrifugal fan to achieve continuous adjustable air volume, flexible matching of heat load.
- High precision electronic expansion valve, precise control of refrigerant superheat, evaporation pressure.
- Support $\pm 15\%$ wide grid adaptation, optional redundant power distribution, lightning protection, rope/point flooding sensor function.

■ Specification--Air cooling direct expansion series

Specification		型号	ZT-HM008	ZT-HM014	ZT-HM025	ZT-HM030	ZT-HM035	ZT-HM040	ZT-HM045	ZT-HM050	ZT-HM060	ZT-HM070	ZT-HM080	ZT-HM090	ZT-HM100
Airflow volume		m ³ /h	2200	3200	7500	9000	10500	11500	12000	15000	18000	21000	23000	24000	25600
Cooling capacity		kW	7.5	12.5	26.4	31.5	36.1	40.55	45.7	52.7	62.9	72.3	80.22	91.6	100.2
Sensible cooling capacity		kW	6.75	11.25	24.5	29.2	33.4	36.82	41.6	48.9	58.2	66.6	72.81	83.4	91.6
Electric heating		kW	3	3	6	6	6	6	6	9	9	9	9	9	9
Humidification volume		kg/h	3	3	4.5	4.5	4.5	4.5	4.5	6.5	6.5	6.5	6.5	6.5	6.5
Maximum load current FLA		A	14.6	19	32.12	38.2	41.05	41.72	48.97	59.74	71.92	77.6	78.74	93.44	93.44
Indoor unit dimension	width	mm	510	600	900	900	900	900	900	1800	1800	1800	1800	1800	1800
	length*height	mm	387*1800	508*1900	1000*1980										
Indoor unit weight		kg	108	140	355	370	375	380	390	665	695	705	715	735	755
Outdoor unit specification															
Model			ZT-10NB	ZT-20NB	ZT-40NP	ZT-50NP	ZT-50NP	ZT-50NP	ZT-70NP	ZT-40NP	ZT-50NP	ZT-50NP	ZT-50NP	ZT-70NP	ZT-70NP
Matching quantity			1	1	1	1	1	1	1	2	2	2	2	2	2
Indoor unit dimension	width	mm	700	700	1650	1650	1650	1650	2010	1650	1650	1650	1650	2010	2010
	depth*height	mm	352*810	352*1190	1100*1150										
Outdoor unit weight		kg	43	60	158	168	168	168	210	158	168	168	168	210	210



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Note:

- 1) Indoor return air conditions: dry bulb temperature 24°C, wet bulb temperature 17°C; air-cooled outdoor conditions: dry bulb temperature 35°C.
- 2) Water-cooled conditions: inlet/outlet water temperature 30/35°C.
- 3) Power supply specifications: 380V, 3N, 50Hz.
- 4) For room-level fixed frequency single modules, the default outlet is on the left; for dual modules, the left module has a left outlet, and the right module has a right outlet.
- 5) ZT-HM008、ZT-HM014 models come standard with infrared humidification.
- 6) If the required data is not listed in the table, please contact Zhiting.

■ Specification--Chilled water series

Specification		Model	ZT-HM040C	ZT-HM050C	ZT-HM060C	ZT-HM070C	ZT-HM080C	ZT-HM100C	ZT-HM120C	ZT-HM130C	ZT-HM150C	ZT-HM180C	ZT-HM200C
Airflow volume		m³/h	8500	9500	11500	12500	17000	19000	23000	25000	28500	34500	37500
Condition 1 (National Standard Conditions): Indoor Conditions: DB 24°C / RH 50%, Inlet/Outlet Water Temperature 7°C / 12°C;													
Condition 1	Cooling capacity	kW	40.4	51.5	62	68.9	80.8	103	124	137.8	152	186	206.7
	Sensible cooling capacity	kW	35.4	46	54.7	60.6	70.8	92	109.4	121.2	133.7	164.1	181.8
	Water flow rate	m³/h	6.9	8.8	10.6	11.8	13.9	17.7	21.3	23.6	26.1	31.9	35.4
	Water pressure drop	kPa	82.4	82.4	70.4	84.8	72	72	71	71	78.6	82.4	96
Condition 2:Indoor Conditions: DB 28°C / RH 40%, Inlet/Outlet Water Temperature 10°C / 15°C;													
Condition 2	Cooling capacity	kW	39.1	49.9	60.1	66.8	78.3	99.8	120.2	133.5	147.3	180.2	200.3
	Sensible cooling capacity	kW	37.6	47.9	57.7	64.1	75.2	95.8	115.3	128.2	141.4	173	192.3
	Water flow rate	m³/h	6.7	8.5	10.3	11.4	13.5	17.2	20.6	22.9	25.3	30.9	34.3
	Water pressure drop	kPa	80.8	80.5	69.8	82.5	71.4	71.4	69.8	69.8	76.5	81.3	94.2
Condition 3:Indoor Conditions: DB 30°C / RH 40%, Inlet/Outlet Water Temperature 12°C / 18°C;													
Condition 3	Cooling capacity	kW	37.1	47.3	57	63.3	74.3	94.7	114	126.7	139.7	171	190
	Sensible cooling capacity	kW	36.4	46.4	55.8	62.1	72.8	92.8	111.7	124.1	136.9	167.5	186.2
	Water flow rate	m³/h	6.3	8.1	9.7	10.8	12.8	16.3	19.6	21.7	24	29.3	32.5
	Water pressure drop	kPa	69.6	69.6	59.5	71.6	60.8	60.8	60	60	66.4	69.6	81.1
Electric heating capacity		kW	6	6	6	6	9	9	9	9	12	12	12
Humidification volume		kg/h	4.5	4.5	4.5	4.5	6.5	6.5	6.5	6.5	10	10	10
Maximum load current FLA		A	14.7	14.7	14.7	14.7	24.8	24.8	24.8	24.8	34.9	34.9	34.9
Dimension	width	mm	900	900	900	900	1800	1800	1800	1800	2700	2700	2700
	depth*height	mm	1000*1980										
Weight		kg	300	320	325	330	560	600	610	620	880	905	920

Note:

- 1)Equipped with a stepless speed control EC fan and proportional integral two-way valve.
- 2)Power supply specifications: 380V, 3N, 50Hz.
- 3)If the required data is not listed in the table, please contact Zhiting.



■ Specification--Dual Circuit Fluorine Pump Natural Cooling Series

Model		ZT-HM030P	ZT-HM045P	ZT-HM060P	ZT-HM090P	ZT-HM120P
Specification						
Indoor conditions: DB 35°C / RH 30%, Outdoor conditions: DB 35°C						
Cooling capacity	kW	32.4	45.2	62.7	90.4	125.1
Sensible cooling capacity	kW	32.4	45.2	62.7	90.4	125.1
Indoor conditions: DB 24°C/RH 50%, Outdoor conditions:DB 35°C						
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
Airflow volume	m³/h	9000	11000	13000	22000	26000
Electric heating capacity	kW	6	9	9	9	9
Humidification volume	Kg/h	6	6	10	10	10
Maximum load current	A	49.7	62.2	69.2	110.8	124.8
Weight	kg	280	328	391	633	790
External dimensions	mm	1100*1000*2000	1100*1000*2000	1100*1000*2000	2200*1000*2000	2200*1000*2000
(Width × Depth × Height)						
Flat panel outdoor unit specification						
Model		ZT-50NP	ZT-60NP	ZT-80NP	ZT-60NP	ZT-80NP
Matching quantity	unit	1	1	1	2	2
Number of fans	piece	1	2	2	4	4
Outdoor unit dimensions (Width × Depth × Height)	mm	1650*1100*1150	2010*1100*1150	2700*1100*1150	2010*1100*1150	2700*1100*1150
Centralized (fluorine pump) outdoor unit specification						
Model		ZT-SW50NVHMP	ZT-SW70NVHMMP	ZT-SW90NVHMP	ZT-SW70NVHMP	ZT-SW90NVHMP
Matching quantity	unit	1	1	1	2	2
Number of fans	piece	1	1	1	2	2
Outdoor unit dimensions (Width × Depth × Height)	mm	1280*1080*2200	1280*1080*2200	1280*1080*2200	1280*1080*2200	1280*1080*2200
Energy-saving module specification(designed for use with flat panel outdoor units)						
Energy-saving module model		ZT-SW50FHM				
Power	W	≤500				
Dimension(Width × Depth × Height)	mm	780*350*1000				



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Note:

- 1) Fully variable frequency scroll compressor, R410A environmentally friendly refrigerant.
- 2) The dual-circuit series outdoor unit is standard with a fluorine pump; when without the fluorine pump function, it becomes a conventional variable frequency series.
- 3) Power supply specifications: 380V, 3N, 50Hz.
- 4) Upward airflow room-level variable frequency units can be customized for a maximum external static pressure of 450Pa, maximum heating capacity of 36kW, and maximum humidification capacity of 15kg/h; please contact Zhiting if needed.
- 5) For room-level variable frequency units, downward airflow defaults to a bottom outlet, and upward airflow defaults to a left outlet (compatible with bottom outlet).
- 6) Due to product improvements and upgrades, parameter changes may occur without prior notice; please confirm before placing an order.



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