



In-Row Precision Air Conditioner





In-Room Precision Air Conditioner

ZT-INFINITY TECHNOLOGY

■ Product Description

HM series of line-level precision air conditioners are mainly developed for the medium and high heat density data centers, a temperature control products, with high energy efficiency, safety and reliability, intelligent management, compact structure, exquisite craftsmanship, ultra-high sensible heat ratio, cooling in the vicinity of the data room to fully meet the cooling needs of the medium and high heat density data room.



■ Feature

- Fully variable frequency, high sensible heat ratio , utilizing R410A environmentally friendly refrigerant.
- Equipped with a 7-inch large touchscreen displaying temperature and humidity curves, along with comprehensive alarm protection and self-diagnostic functions.
- CAN bus networking technology supports up to 32 units for group control.
- Safe and reliable PTC electric heating.
- Equipped with EC DC brushless fans (25kW with 6 fans, 40kW with 10 fans, 50kW with 12 fans, 60kW with 14 fans) featuring stepless speed control, high airflow, low resistance, and wall-type airflow distribution.
- Supports wide voltage adaptation of $\pm 15\%$, with optional features like redundant power distribution, 6KA surge protection, rope/point water leakage sensors, and fluorine pumps.
- Outdoor unit condenser fan has stepless speed control for automatic speed adjustment.
- Adopts wet-film humidification, with nearly zero power consumption, eco-friendly and energy-saving, reducing PUE.
- Heat pipe in-row series keeps water out of the room, ensuring safety and reliability, with a liquid level switch to prevent the fluorine pump from running dry.
- Air conditioning units offer optional dual power switch function, enabling automatic dual power switching.

■ Specification - Direct Expansion Series

Specification	Model	ZT-HM12R	ZT-HM025R	ZT-HM035R	ZT-HM040R	ZT-HM050R	ZT-HM060R
Airflow volume	m³/h	3000	5000	6000	8500	10500	12000
Indoor Condition 1: DB 37°C / RH 24%, Outdoor Condition: DB 35°C							
Cooling capacity	kw	15	25.8	35.8	42.5	52.5	62.6
Sensible cooling capacity	kw	15	25.8	35.8	42.5	52.5	62.6
Indoor Condition 2: DB 35°C / RH 30%, Outdoor Condition: DB 35°C							
Cooling capacity	kw	13.2	24.5	34.5	40.6	50.2	60.1
Sensible cooling capacity	kw	12.6	23.3	33.8	39.1	48.2	57.7
Electric heating capacity	kw	3	3	4	6	6	6
Humidification volume	kg/h	1.5	1.5	1.5	3	3	3
Maximum load current	FLA	18.5	28.2	33.2	40	42.5	47.9
Unit dimension (W× D × H)	mm	300*1000*200 0	300*1200*200 0	300*1200*2000	600*1200*2000	600*1200*200 0	600*1200*200 0
Weight	KG	182	240	280	330	340	345



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● Centralized outdoor unit specification

Model		ZT-40NV	ZT-50NV	ZT-60NV	ZT-70NV	ZT-90NV
Number of fans	pcs	1	1	1	1	1
Outdoor Unit Dimension (W × D × H)	mm	1080*1080*1745	1080*1080*1745	1080*1080*1745	1080*1080*1745	1080*1080*1874

● Flat panel outdoor unit specification

Model		ZT-20WW	ZT-40NP	ZT-50NP	ZT-60NP	ZT-70NP	ZT-80NP
Number of fans	pcs	1	1	1	2	2	2
Outdoor Unit Dimension (W × D × H)	mm	1024*396*1002	1650*1100*1150	1650*1100*1150	2010*1100*1150	2010*1100*1150	2700*1100*1150
Weight	KG	76	158	158	196	210	256

Note:

- (1) The row-level ZT-HM12R model features a fully enclosed rotary DC inverter compressor, with the compressor located on the outdoor side.
- (2) Water-cooled conditions: inlet/outlet water temperature 30/35°C.
- (3) The outdoor unit can be optionally equipped with a water spray cooling energy-saving component and a fluorine pump energy-saving component.
- (4) Power supply specifications: 380V, 3N, 50Hz.
- (5) Due to product improvements and upgrades, parameter changes may occur without prior notice; please confirm before placing an order.

■ Specification - Chilled Water Series

Specification	Model	ZT-HM30RC	ZT-HM80RC
Airflow volume	m³/h	5000	8500
Condition 1: Indoor Conditions: DB 37°C / RH 24%, Inlet/Outlet Water Temperature 10°C / 15°C;			
Cooling capacity	kW	32.9	61.4
Sensible cooling capacity	kW	32.9	61.4
Water flow rate	m³/h	5.6	10.5
Water pressure drop	kPa	78	84.9
Condition 2: Indoor Conditions: DB 35°C / RH 30%, Inlet/Outlet Water Temperature 12°C / 18°C;			
Cooling capacity	kW	26.4	47.8
Sensible cooling capacity	kW	26.4	47.8
Water flow rate	m³/h	3.7	6.8
Water pressure drop	kPa	57.4	45



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Specification	Model	ZT-HM30RC	ZT-HM80RC
Condition 3:Indoor Conditions: DB 37°C / RH 24%, Inlet/Outlet Water Temperature 15°C / 21°C;			
Cooling capacity	kW	25	45.4
Sensible cooling capacity	kW	25	45.4
Water flow rate	m³/h	3.6	6.5
Water pressure drop	kPa	53.7	40.2
Electric heating capacity	kW	3	6
Humidification volume	kg/h	1.5	3
Maximum load current	FLA	20.4	22.7
Power supply specification	/	AC 220V/50Hz	AC 380V/50Hz, 3N
Unit dimension (Width × Depth × Height)	mm	300*1200*2000	600*1200*2000
Weight	kg	170	335

■ Specification - Dual Circuit Fluorine Pump Natural Cooling Series

Specification	Model	ZT-HM25RP	ZT-HM40RP	ZT-HM50RP	ZT-HM60RP
Indoor Conditions: DB 37°C / RH 24%, Outdoor Conditions: DB 35°C;					
Cooling capacity	kW	25.8	42.5	52.6	62.6
Sensible cooling capacity	kW	25.8	42.5	52.5	62.6
Airflow volume	m3/h	5000	8500	10500	12000
Heating capacity	kW	3	6	6	6
Humidification capacity	kg/h	1.5	3	3	3
Maximum current	FLA-A	31.7	43.5	46	57.2
Dimension (Width × Depth × Height)	mm	300*1200*2000	600*1200*2000	600*1200*2000	600*1200*2000
Indoor unit net weight	kg	246	338	352	357



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- Flat panel outdoor unit specification

Specification	Model	ZT-40NP	ZT-60NP	ZT-70NP	ZT-80NP
Dimension (W × D × H)	mm	1650*1100*1150	2010*1100*1150	2010*1100*1150	2700*1100*1150

- Centralized (Fluorine pump) outdoor unit specification

Model		ZT-50NV	ZT-70NV	ZT-70NV	ZT-90NV
The number of fans	pcs	1	1	1	1
Dimension (W × D × H)	mm	1280*1080*2200	1280*1080*2200	1280*1080*2200	1280*1080*2200

- Energy-saving module specification (compatible with Flat panel outdoor unit)

Energy-saving module model		SW50FHM
Power	W	≤500
Dimension (W × D × H)	mm	780*350*1000

Note:

1)Optional configuration includes V-type centralized condenser + fluorine pump energy-saving module + spray function.

2) Power supply specifications: 380V, 3N, 50Hz.



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