



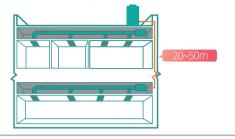
Holtop Suspended DX Air Handling Units





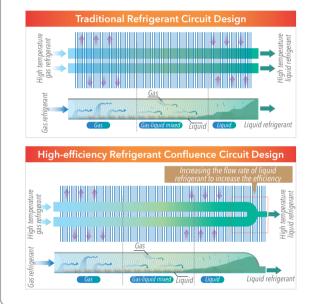
Long Piping Design

The pipe connection length between indoor unit and outdoor unit can reach 50m, and the maximum drop can reach 25m. The indoor unit and outdoor unit can be installed on site more flexibly.



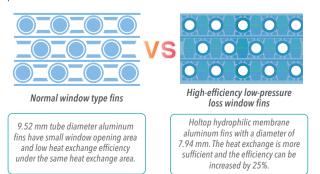
High Efficiency Refrigerant Heat Exchange

High efficiency two in one refrigerant improves the liquid phase flow rate of the refrigerant, improves the overall heat transfer coefficient of the heat exchanger, and improves supercooling and strengthens the refrigerant transmission distance.



High Efficiency Heat Exchanger Fins

The innovative high-efficiency low-pressure loss window fins are made of hydrophilic membrane aluminum, which can improve the heat transfer wet film heat transfer coefficient and improve the overall heat exchange performance of the unit.



Comfortable Control System

The wire remote controller is simple and convenient to use, it is widely used in small and medium size office and business center.



Functions

- Heat pump type: refrigeration/heating/ventilation
- Temperature setting range: 16~32°C
- Timer ON/OFF
- LCD display, can set temperature, working mode, system real-time clock (optional), day of the week (optional), ON/OFF status, fault display, etc.
- Power auto restart(optional)

Functional Control System

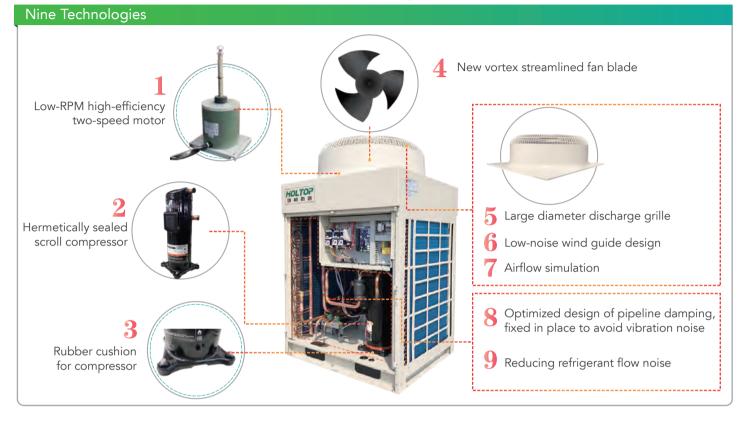
Holtop AHU is built in the Modbus protocol connectors which can be connected to the centralized building management system directly, there is no need to access to any conversion equipment so it is very convenient to be monitored centrally, and it is very suitable for the large scale air conditioning projects application.



Control Network Topology Diagram



Advanced Silencing Technology, More Quiet and Reliable Operation



High Efficient Heat Exchanger

New U-shaped Heat Exchanger

As the core element of the refrigeration system, the heat exchanger directly determines whether the air conditioning system is reliable and energy-saving.

Holtop combined the market demand with his many years of the outdoor unit development experience and successfully developed the new generation of U-shape heat exchanger. Such advanced and high efficiency heat exchanger made Holtop HFM series DX AHU with high efficiency and energy saving advantages.

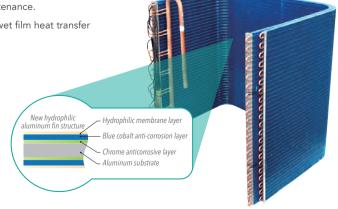
- The airflow of the fan is effectively used, and the heat exchange area is fully expanded without increasing the space of the unit, and the heat exchange efficiency is greatly improved.
- Compact structure, high strength, more convenient for installation and maintenance.
- The use of hydrophilic membrane aluminum fins improves the heat transfer wet film heat transfer coefficient and provides the overall heat transfer coefficient of the unit.

U-shaped heat exchanger structure

The copper tube adopts ø7.94 thread copper tube, the flow rate is moderate, and the comprehensive performance of heat exchange defrosting is optimal.

The distance between ø7 copper tubes is too small, the frost has a great influence on the heat transfer, and the frost layer is thick, which affects the defrosting time.

The diameter of ø9.52 is large, the disturbance to the heat transfer boundary layer is small, and the heat transfer efficiency is low.



Technical Features

Green Refrigrant

The Holtop HFM series suspended dx air handling unit uses R410A as refrigerant, with zero ODP, to avoid damage to the ozone layer and at the same time, greatly improve cooling capacity.



Dual Temperature Monitor – Say No To Cold Air In Winter

The unit equips with two temperature sensors, one at the return air side of the indoor unit and the other at the thermostat, monitoring the temperature all the time to ensure warm air to cover the whole area.

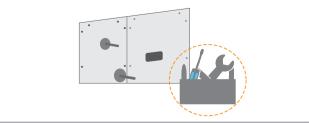
Such Design Ensures The Heating Comfortableness Of The Unit.

In heating mode, the system will preheat the heat exchanger fins of the indoor unit, and then supply warm air to the room, under defrosting mode, the supply air fan will temporarily stop until defrosting finishes, after the heat exchanger fins are preheated again, supply fan revert to supply warm air to the room.



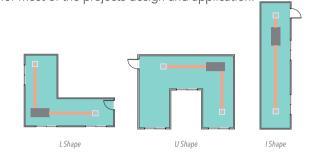
Easy Maintenance

The whole unit uses frameless foaming boards to construct, and self-tapping screws to connect these boards, making it very easy to be disassembled for maintenance.



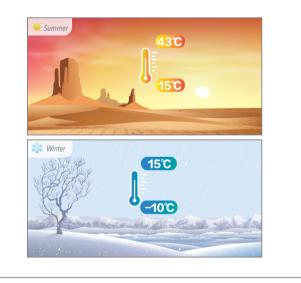
High ESP Design – Easy Selection

The indoor unit generates a high ESP, making it possible to cover the whole area to avoid uneven distribution of temperature. Such feature makes Holtop DX AHU suitable for most of the projects design and application.



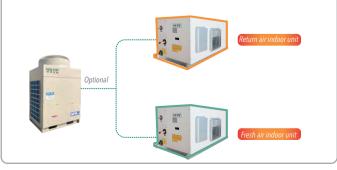
Wide Operation Temperature Range

Even at 15°C, the cooling function can be activated normally; Heating function can be activated at -10°C in winter.



Two Options Available For Different Needs

The HFM outdoor unit can work with either return air or fresh air indoor unit, to meet different customers' needs.





Suspended DX Air Handling Unit (Return Air Type)

Model		Indoor Unit	HZN-05KA1	HZN-06KA1	HZN-08KA1	HZN-10KA1	
		Outdoor Unit	HFM-05HA1	HFM-06HA1	HFM-08HA1	HFM-10HA1	
Nominal Cooling Capacity		kW	11.8	13.9	18.5	25.5	
Nominal Heaing Capacity		kW	14.9	16.8	21.5	30.7	
	Airflow	m³/h	2400/2000/1600	2600/2100/1800	3800/3100/2650	5500	
	ESP	Pa	100	100	100.00	150 (100/200/250/300)	
Indoor Unit	Fan Type	/	Direct Driven	Direct Driven	Direct Driven	Belt Driven	
indoor Unit	Dimensions	mm	825*1230*415	825*1430*415	825*1731*500	838*1770*698	
	Weight	kg	65	75	90	146	
	Noise	dB(A)	48/46/44	51/48/46	52/50/48	59	
	Dimensions	mm	903*393*1225	903*393*1225	903*393*1357	990*850*1545	
Outdoor Unit	Weight	kg	110	110	125	190	
	Noise	dB(A)	61	61	63	64	
Devee Coursely	Indoor Unit	/	220V~ /50Hz	220V~ /50Hz	380V/3N~50Hz	380V/3N~50Hz	
Power Supply	Outdoor Unit	/	380V/3N~50Hz				
Input Power	Cooling	kW	4.8	5.3	6.9	8.9	
	Heating	kW	4.7	5.2	7.2	9.2	
Max Current		A	16.1	18.1	23.5	26.5	
Refrigerant	Туре	/	R410A				
Piping Diameter	Connecting type	/	Weld				
	Liquid Pipe	mm	ø9.52	ø9.52	ø9.52	ø15.88	
	Gaseous Pipe	mm	ø15.88	ø15.88	ø19.05	ø28.58	
Condensation Tray Outlet		/	DN25				

Model		Indoor Unit	HZN-12KA1	HZN-15KA1	HZN-18KA1	
		Outdoor Unit	HFM-12HA1	HFM-15HA1	HFM-18HA1	
Nominal Cooling Capacity		kW	30.0	35.4	42.0	
Nominal Heaing Capacity		kW	33.6 38.3		48.2	
	Airflow	m³/h	6500 8000		8500	
	ESP	Ра	150 (100/200/250/300) 150 (100/200/250/300)		150 (100/200/250/300)	
Indoor Unit	Fan Type	/				
indoor onit	Dimensions	mm	838*1770*698 954*1870*815		954*1870*815	
	Weight	kg	150 163		170	
	Noise	dB(A)	61	61	62	
	Dimensions	mm	990*850*1545 990*850*1810		1345*850*1810	
Outdoor Unit	Weight	kg	200	225	260	
	Noise	dB(A)	66	66	67	
Dower Sweek	Indoor Unit	/	380V/3N~50Hz			
Power Supply	Outdoor Unit	/	380V/3N~50Hz			
In mut Devuer	Cooling	kW	10.4	12.2	14.6	
Input Power	Heating	kW	10.3	11.9	13.6	
Max C	Max Current		28.5	31.5	40.5	
Refrigerant	Туре	/	R410A			
Piping Diameter	Connecting type	/	Weld			
	Liquid Pipe	mm	ø15.88			
	Gaseous Pipe	mm	ø28.58			
Condensation Tray Outlet		/		DN25		

Remarks:

- Cooling capacity testing conditions: Indoor (DB 27°C, WB 19°C), Outdoor (DB 35°C).
- Heating capacity testing conditions: Indoor (DB 20°C, WB 15°C), Outdoor (DB 7°C, WB 15°C).
- 3. Values for the ESP in the bracket are optional, the input power and current and others will be different under different ESP.
- 4. All airflow and noise are measured under standard ESP.
- The indoor unit noise were tested according to the national standards in the semi-silencing room with background noise of 11.5dB(A).
- 6. All units are without refrigerant when ex-factory.



Suspended DX Air Handling Unit (Fresh Air Type)

Model		Indoor Unit	HZN-05FA1	HZN-06FA1	HZN-08FA1	HZN-10FA1	
		Outdoor Unit	HFM-05HA1	HFM-06HA1	HFM-08HA1	HFM-10HA1	
Nominal Cooling Capacity		kW	12.1	14.3	19.0	26.0	
Nominal Heaing Capacity		kW	15.3	17.3	22.1	28.0	
	Airflow	m³/h	1500/1200/950	1600/1300/1100	2300/1900/1600	3000	
	ESP	Pa	100	100	100	150 (100/200/250/300)	
Indoor Unit	Fan Type	/	Direct Driven				
indoor Unit	Dimensions	mm	825*860*415	825*1000*415	825*1200*500	1110*838*615	
	Weight	kg	65	75	90	120	
	Noise	dB(A)	48/46/44	51/48/46	52/50/48	58	
Outdoor Unit	Dimensions	mm	903*393*1225	903*393*1225	903*393*1357	990*850*1545	
	Weight	kg	110	110	125	190	
	Noise	dB(A)	61	61	63	64	
Derver Supply	Indoor Unit	/	/ 220V~ /50Hz				
Power Supply	Outdoor Unit	/	380V/3N~50Hz				
	Cooling	kW	4.8	5.6	7.1	9.1	
Input Power	Heating	kW	5.4	6.1	7.4	8.4	
Max C	Max Current		15.5	17.5	24.1	26.0	
Refrigerant	Туре	/	R410A				
Piping Diameter	Connecting type	/	Weld				
	Liquid Pipe	mm	ø9.52	ø9.52	ø9.52	ø15.88	
	Gaseous Pipe	mm	ø15.88	ø15.88	ø19.05	ø28.58	
Condensation Tray Outlet		/	DN25				

Model		Indoor Unit	HZN-12FA1	HZN-15FA1	HZN-18FA1		
		Outdoor Unit	HFM-12HA1	HFM-15HA1	HFM-18HA1		
Nominal Cooling Capacity		kW	29.6	34.8	43.2		
Nominal Heaing Capacity		kW	32.6	44.0			
	Airflow	m³/h	4000	5000	6000		
	ESP	Pa	150 (100/200/250/300) 150 (100/200/250/30		150 (100/200/250/300)		
Indoor Unit	Fan Type	/	Direct Driven Belt Driven		Belt Driven		
	Dimensions	mm	1110*838*737 1270*838*775		1410*838*775		
	Weight	kg	130 140		150		
	Noise	dB(A)	58	59	61		
Outdoor Unit	Dimensions	mm	990*850*1545 990*850*1810		1345*850*1810		
	Weight	kg	200 225		260		
	Noise	dB(A)	66	66	67		
Devuer Cumplu	Indoor Unit	/	380V/3N~50Hz				
Power Supply	Outdoor Unit	/	380V/3N~50Hz				
In sect Decision	Cooling	kW	10.3	12.0	15.0		
Input Power	Heating	kW	10.0	12.1	12.4		
Max C	Max Current		27.5	31.0	40.5		
Refrigerant	Туре	/	R410A				
Piping Diameter	Connecting type	/	Weld				
	Liquid Pipe	mm	ø15.88				
	Gaseous Pipe	mm	ø28.58				
Condensation Tray Outlet		/		DN25			

Remarks:

- Cooling capacity testing conditions: Indoor (DB 27°C, WB 19°C), Outdoor (DB 35°C).
- Heating capacity testing conditions: Indoor (DB 20°C, WB 15°C), Outdoor (DB 7°C, WB 15°C).
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