

DX AHU Direct Expansion Air Handling Unit



Theatre

Shopping mall

Subway

Museum

Office Building

Airport

Hospital

Factory

Warehouse

Direct Expansion Air Handling Unit

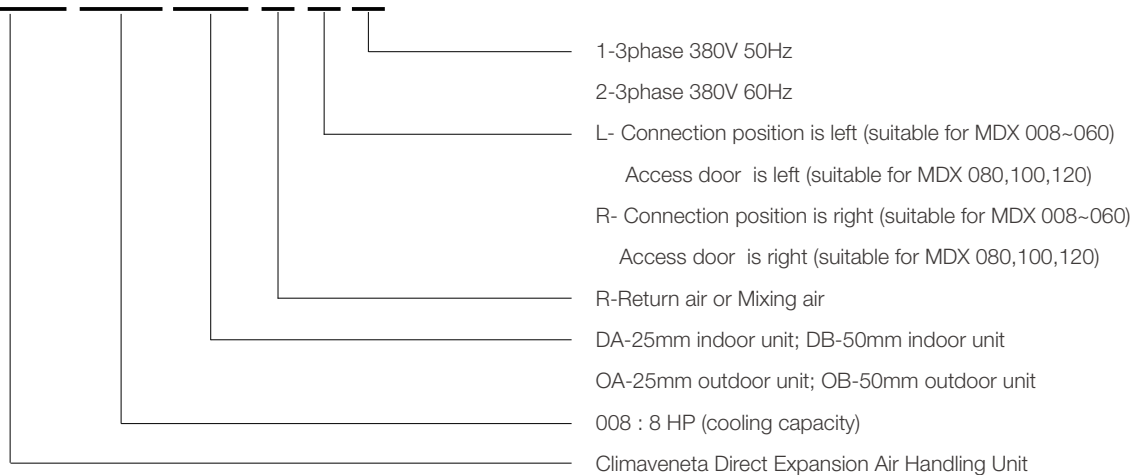
DX AHU introduction

Climaveneta Direct Expansion Air Handling Unit (DX AHU) is designed to operate with Mitsubishi Electric outdoor condensing unit to meet diversified requirements of high capacity air conditioning application. The refrigeration circuit configuration is optimized with the application of Variable Refrigerant Flow Unit (VRF) to achieve the highest efficiency in fulfilling the increasingly energy-saving demand today. The DX AHU is featured with flexible design for customizable components and filtration classes to provide improved indoor air quality of wide range of application. The simplicity of the system offers an ease of installation process.

Model Nomenclature

Indoor unit

MDX 008 DA R L 1

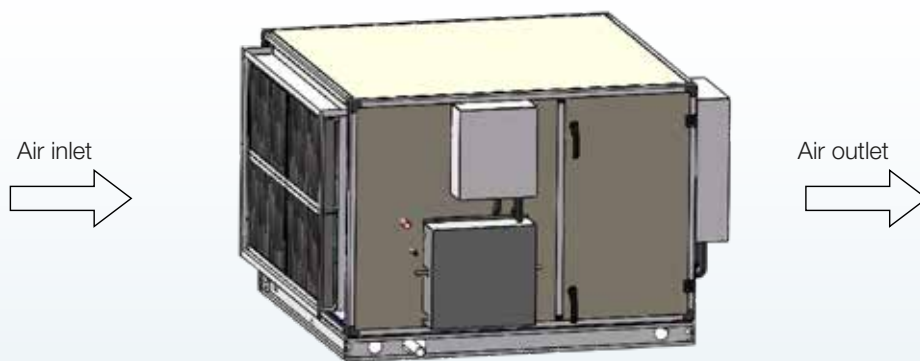


Connection type

The left-right type discrimination of the unit is divided into two cases:

For units with less than 80 HP, it is determined based on the direction of the pipe connection. When facing the air-inlet side, if the pipe connection is on the left side, then the unit is a left-type.

For units with 80 HP or more, it is determined based on the direction of the access door. When facing the air-inlet side, if the access door is on the left side, then the unit is a left-type.



Shown as the right-hand side connection

Note:

- 1.Access door & pipe connection are located on the same side as standard. Please contact our representatives for other configurations.
- 2.For units with 80 HP or more, piping connection is required on both sides of the unit.

DX AHU features & options

Inlet Section / Mixing Box (optional) :

The standard DX AHU is designed for open-return air application without mixing box or inlet section to minimize dimensional footprint. It is equipped with external filter frame & side withdrawal filters.

Inlet section or mixing box is available as option. Dampers are mounted on mixing box to mix fresh air and return air. This section is required for additional filtration requirements.

Inlet options are as below:

- Manual dampers (Galvanized steel/Aluminum alloy)
- Electric dampers (Galvanized steel/Aluminum alloy)
- Flange



Air Filter Type:

DX AHU offers a wide range of filter options with an array of filtration classes to meet various indoor air quality requirements.

Standard unit is equipped with external side-drawn panel type pre-filter G4.

Pre-filter classes: G3, G4

Bag filters are always used after pre-filter to achieve higher air filtration efficiency.

Bag filter classes: M5, M6, F7, F8, F9

High-Efficiency particulate air filters (HEPA) are necessary for the clean environment application such as medical facilities or clean room.

HEPA filter classes: E10, H13, H14



Evaporator Coil:

The evaporator coil is the major heat exchange component of the DX AHU. Standard unit is equipped with GI coil frame paired with GI drain pan, equipped with hydrophilic fins.

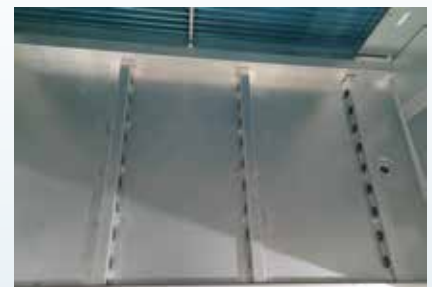
Stainless steel SS304 material is also available as option for drain pan and coil frame:

SS304 Drain Pan

SS304 Coil Frame

PTC heater:

PTC heaters have high heat exchange efficiency, quickly raising the temperature to the desired range and reducing heating time. It uses PTC ceramic heating elements, has no open flame, and can automatically maintain a constant temperature. Typically used for reheating after coil dehumidification.



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Sterilization:

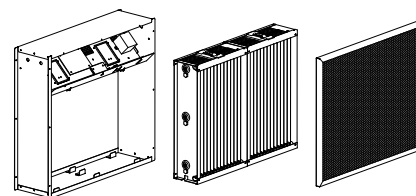
UV light:

Application of UV-C is increasingly common in new buildings and also retrofit projects. UV light utilizes short-wave ultraviolet energy to irritate cooling coil, killing airborne microbes to reduce infectious pathogens thus offering a cleaner and safer air quality, generally installed on the coil section.



Electrostatic filter:

Electrostatic filter, also known as electronic air cleaner is a two stage electronic precipitator that consist of two sections, charging section and collection section. The charging section uses ionizer to impart positive charge to incoming dust particles, smoke and fumes. The charged particles are then drawn into the secondary electric field to be collected and removed from the airstream .



Blower Motor Assembly:

The AHU blower (or known as fan) is responsible for the circulation of air. There are several types of fan available as options to meet different application. It is selected according to the airflow volume and static pressure requirements.

Standard unit is fitted with double-inlet; double-width (DIDW) centrifugal fan. Standard unit is equipped with forward curved blade type.

The blower is belt-driven by 3-phase asynchronous AC motor. AC motors are rated with IP55 protection and class F insulation. They are available in IE3 or IE4 efficiency.

Fan Discharge position: THF (Front) ,UBR(Top)



Optional Fan Types:

AC Plug fan

Plug fans (also known as plenum fans) are commonly direct-driven fan. The fan wheel operates without a housing within the fan section. The fan section will be positively pressurized. The direct drive by AC motor enables the AHU to vary the fan speed via the application of a variable frequency drive (VFD). It also eliminates the need for belt and pulley maintenance.

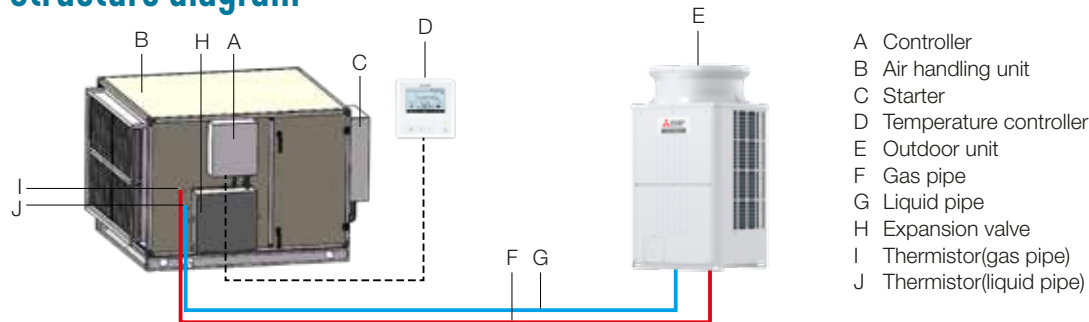


EC Plug fan

EC plug fans work similar to an AC plug fan with a major difference of the introduction of electronically commutated (EC) motor. The EC motor is able to vary its rotation speed allowing more precise airflow control. It operate with much higher efficiency compared to conventional AC motor. The compact size of EC plug fans also allow greater equipment design flexibility.



System structure diagram



Benefits of using DX AHU system

Simplified system:

The DX AHU is designed to simplify the overall system structure for compact application.

It eliminates the need for cooling towers, circulating water pumps, water treatment devices and other equipment. The compact footprint of DX AHU allows greater serviceable space and reduce costly maintenance.

Modular combination:

DX AHU operates with the VRF outdoor unit that adopts a modular combination and branch pipe connection design. This allows greater flexibility in capacity zoning, reduced investment costs and provide greater ease of installation. The modular design enables the system to meet larger capacity demand.

Selection software:

The DX AHU is designed to be configured and selected with our own-developed selection software. The comprehensive selection software is capable of providing an optimal configuration of unit performance and functional segments, allowing user to freely customize the AHU to best fit the customer needs.

DX AHU operation range

The following are the cooling operation range

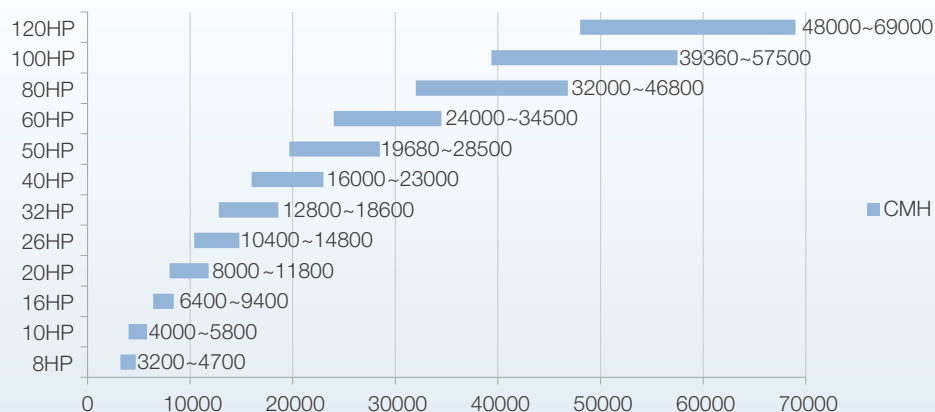
Entering Air Temperature to DX AHU	Minimum	15°CWB,30~80%RH
	Maximum	24°CWB,30~80%RH
Expansion Valve	Minimum	0°CDB
	Maximum	43°CDB
Controller	Minimum	-20°CDB
	Maximum	43°CDB

DX AHU standard series

DX AHU series, the capacity range is 8 HP to 120 HP, the air volume range is 3,200CMH to 69,000CMH.

DX AHU capacity

Capacity	8HP	10HP	16HP	20HP	26HP	32HP	40HP	50HP	60HP	80HP	100HP	120HP
Max CMH	4700	5800	9400	11800	14800	18600	23000	28500	34500	46800	57500	69000
Min CMH	3200	4000	6400	8000	10400	12800	16000	19680	24000	32000	39360	48000



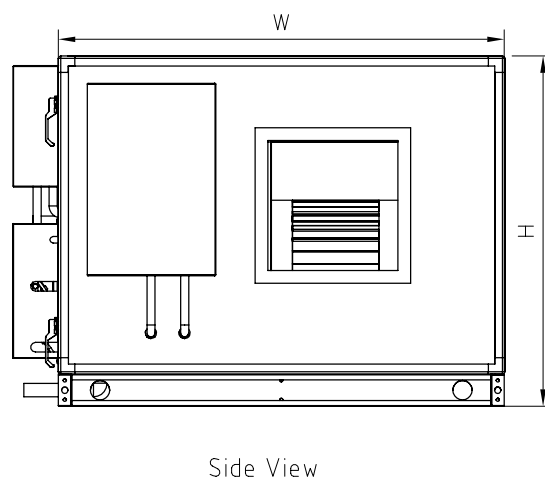
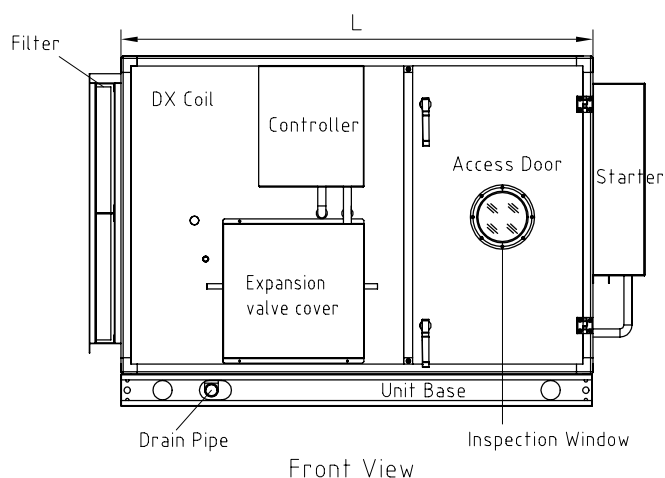
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Standard AHU controller

Standard AHU controller is a system composed of Controller and Expansion valve, used to connect with outdoor units
Applicable models: PAC-AH250, and 500M-J

Model name			PAC-AH250M-J		PAC-AH500M-J	
Unit capacity			200	250	400	500
Dimensions	Unit	HxWxD mm	378(420)×328×104(122)The figure in () indicates mounting's			
Weight	Unit	Kg	5			
Ambient temperature	Cooling	Min.~Max. °CDB	-20~43			
Refrigerant	Type		R410A			

Drawings and Dimensions of DX AHU



Model	Dimension L×W×H (mm)
MDX008DAR	1,230×1,070×850
MDX010DAR	1,230×1,390×850
MDX016DAR	1,390×1,390×1,090
MDX020DAR	1,470×1,390×1,250
MDX026DAR	1,550×1,390×1,570
MDX032DAR	1,710×1,390×1,890
MDX040DAR	1,710×1,950×1,570
MDX050DAR	1,870×1,950×1,890
MDX060DAR	1,950×1,950×2,210
MDX080DAR	1,710×2,670×2,290
MDX100DAR	1,870×3,870×1,890
MDX120DAR	1,950×3,870×2,210

Model	Dimension L×W×H (mm)
MDX008DBR	1,280×1,120×900
MDX010DBR	1,280×1,440×900
MDX016DBR	1,440×1,440×1,140
MDX020DBR	1,520×1,440×1,300
MDX026DBR	1,600×1,440×1,620
MDX032DBR	1,760×1,440×1,940
MDX040DBR	1,760×2,000×1,620
MDX050DBR	1,920×2,000×1,940
MDX060DBR	2,000×2,000×2,260
MDX080DBR	1,760×2,720×2,340
MDX100DBR	1,920×3,920×1,940
MDX120DBR	2,000×3,920×2,260

Note:

The function section of the standard unit is: outside withdrawing filter section (G4)+ coil section + fan section

DX AHU specifications

MODEL			MDX008DAR MDX008DBR						MDX010DAR MDX010DBR						MDX016DAR MDX016DBR					
Total Cooling capacity		NET(kW)	22.5	22.4	22.3	22.2	22.1	22.0	28.4	28.2	28.1	28.0	27.8	27.7	44.8	44.6	44.4	44.1	43.9	43.7
Total Sensible Cooling capacity			17.0	16.9	16.8	16.7	16.6	16.5	21.5	21.3	21.2	21.1	20.9	20.8	34.1	33.9	33.7	33.4	33.2	33.0
Total Cooling capacity		GROSS(kW)	24.3						30.4						47.9					
Total Sensible Cooling capacity			18.8						23.5						37.2					
Input power		kW	1.8	1.9	2.0	2.1	2.2	2.3	2.0	2.2	2.3	2.4	2.6	2.7	3.1	3.3	3.5	3.8	4.0	4.2
Air Flow		CMH	4000						5000						8000					
Ent.Temp.		°CDB/°CWB	27/19						27/19						27/19					
Coil Type			DX COIL (R410A) 9.52mm louvered fins																	
Coil Face Area		m²	0.45						0.54						0.90					
Coil Face Vel.		m/s	2.49						2.57						2.47					
Air PD.In Coil		Pa	150						155						145					
Air PD.In Pre Filter		Pa	40						45						55					
Air Filter Size		24"*12"*2"	1						-						2					
		24"*20"*2"	1						-						2					
		24"*24"*2"	-						2						-					
Air PD.In Casing		Pa	30						30						30					
ESP.Initial		Pa	250	300	350	400	450	500	250	300	350	400	450	500	250	300	350	400	450	500
Total Static Pressure		Pa	470	520	570	620	670	720	480	530	580	630	680	730	480	530	580	630	680	730
Fan Type			FORWARD CURVE																	
Fan Model			FDA225CM						FDA250CM						FDA315CM					
Fan Motor		kW	2.2				3	2.2		3				4				5.5		
		Pole	4						4						4					
Power Supply(50Hz/60Hz)		Volt/Ph./Hz.	380/3/50 380/3/60																	
FLA(IE3)		amp	4.7				6.3	4.7		6.3				8.4				11.1		
Machine Weight	DA	kg	195						230						295				315	
	DB	kg	255						295						370				385	
Sound Pressure Level(SPL)		dBA	64	64.6	65.2	65.8	66.4	67	65	65.6	66.2	66.8	67.4	68	67	67.6	68.2	68.8	69.4	70
Standard AHU Controller Model			PAC-AH250M-J(200) ¹						PAC-AH250M-J						PAC-AH500M-J(400) ²					
Pipe connections	Liquid pipes	mm	12.7(Brazing connection)						12.7(Brazing connection)						15.88(Brazing connection)					
	Gas pipes	mm	22(Brazing connection)						22(Brazing connection)						28(Brazing connection)					
	Drain pipes	mm	DN32(External thread)						DN32(External thread)						DN32(External thread)					
Refrigerant Control			Electronic expansion valve						Electronic expansion valve						Electronic expansion valve					

Note: ^{*1} represents the actual capacity of the unit as 200; ^{*2} represents the actual capacity of the unit as 400.

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MODEL			MDX020DAR MDX020DBR						MDX026DAR MDX026DBR						MDX032DAR MDX032DBR					
Total Cooling capacity		NET(kW)	56.7	56.5	56.3	56.0	55.8	55.5	73.8	73.5	73.3	73.0	72.7	72.4	91.0	90.7	90.4	90.0	89.6	89.2
Total Sensible Cooling capacity			43.2	43.0	42.8	42.5	42.3	42.0	56.2	55.9	55.7	55.4	55.1	54.8	69.3	69.0	68.7	68.3	67.9	67.5
Total Cooling capacity		GROSS(kW)	60.1						78.2						96.2					
Total Sensible Cooling capacity			46.6						60.6						74.5					
Input power		kW	3.4	3.6	3.8	4.1	4.3	4.6	4.4	4.7	4.9	5.2	5.5	5.8	5.2	5.5	5.8	6.2	6.6	7.0
Air Flow		CMH	10000						13000						16000					
Ent.Temp.		°CDB/°CWB	27/19						27/19						27/19					
Coil Type			DX COIL (R410A) 9.52mm louvered fins																	
Coil Face Area		m²	1.14						1.44						1.80					
Coil Face Vel.		m/s	2.44						2.51						2.47					
Air PD.In Coil		Pa	145						150						150					
Air PD.In Pre Filter		Pa	65						60						60					
Air Filter Size		24"*12"*2"	2						-						2					
		24"*20"*2"	-						-						-					
		24"*24"*2"	2						4						4					
Air PD.In Casing		Pa	30						30						30					
ESP.Initial		Pa	250	300	350	400	450	500	250	300	350	400	450	500	250	300	350	400	450	500
Total Static Pressure		Pa	490	540	590	640	690	740	490	540	590	640	690	740	490	540	590	640	690	740
Fan Type			FORWARD CURVE																	
Fan Model			FDA355CM						FDA400CM						FDA450CM					
Fan Motor		kW	4				5.5		5.5				7.5		5.5		7.5			
		Pole	4						4						4					
Power Supply(50Hz/60Hz)		Volt/Ph./Hz.	380/3/50 380/3/60																	
FLA(IE3)		amp	8.4				11.1		11.1				14.8		11.1		14.8			
Machine Weight	DA	kg	335				350		420				430		485		500			
	DB	kg	410				430		500				515		590		600			
Sound Pressure Level(SPL)		dBA	68	68.6	69.2	69.8	70.4	71	69	69.6	70.2	70.8	71.4	72	70	70.6	71.2	71.8	72.4	73
Standard AHU Controller Model			PAC-AH500M-J						PAC-AH250M-J+ PAC-AH500M-J(400) ¹²						PAC-AH500M-J(400) ¹ x 2					
Pipe connections	Liquid pipes	mm	15.88(Brazing connection)						12.7(Brazing connection) x 1+ 15.88(Brazing connection) x 1						15.88(Brazing connection) x 2					
	Gas pipes	mm	28(Brazing connection)						22(Brazing connection) x 1+ 28(Brazing connection) x 1						28(Brazing connection) x 2					
	Drain pipes	mm	DN32(External thread)						DN32(External thread)						DN32(External thread)					
Refrigerant Control			Electronic expansion valve						Electronic expansion valve						Electronic expansion valve					

Note: ² represents the actual capacity of the unit as 400.

MODEL			MDX040DAR MDX040DBR						MDX050DAR MDX050DBR						MDX060DAR MDX060DBR					
Total Cooling capacity		NET(kW)	114.0	113.5	113.1	112.7	112.2	111.7	140.2	139.7	139.2	138.7	138.2	137.6	170.5	169.8	169.1	168.5	167.7	167.1
Total Sensible Cooling capacity			86.9	86.4	86.0	85.6	85.1	84.6	107.1	106.6	106.1	105.6	105.1	104.5	130.2	129.5	128.8	128.2	127.4	126.8
Total Cooling capacity		GROSS(kW)	120.6						147.8						180.1					
Total Sensible Cooling capacity			93.5						114.7						139.8					
Input power		kW	6.6	7.1	7.5	7.9	8.4	8.9	7.6	8.1	8.6	9.1	9.6	10.2	9.6	10.3	11.0	11.6	12.4	13.0
Air Flow		CMH	20000						24600						30000					
Ent.Temp.		°CDB/°CWB	27/19						27/19						27/19					
Coil Type			DX COIL (R410A) 9.52mm louvered fins																	
Coil Face Area		m²	2.15						2.69						3.23					
Coil Face Vel.		m/s	2.58						2.54						2.58					
Air PD.In Coil		Pa	155						155						155					
Air PD.In Pre Filter		Pa	65						65						65					
Air Filter Size		24"*12"*2"	-						3						-					
		24"*20"*2"	-						-						-					
		24"*24"*2"	6						6						9					
Air PD.In Casing		Pa	30						30						30					
ESP.Initial		Pa	250	300	350	400	450	500	250	300	350	400	450	500	250	300	350	400	450	500
Total Static Pressure		Pa	500	550	600	650	700	750	500	550	600	650	700	750	500	550	600	650	700	750
Fan Type			FORWARD CURVE																	
Fan Model			FDA500CM						FDA560CM						FDA630CM					
Fan Motor		kW	7.5		11				11						11			15		
		Pole	4						6		4				6				4	
Power Supply(50Hz/60Hz)		Volt/Ph./Hz.	380/3/50 380/3/60																	
FLA(IE3)		amp	14.8		21.5				21.5						21.5			29		
Machine Weight	DA	kg	570		610				715						810			850		
	DB	kg	695		735				850						960			1000		
Sound Pressure Level(SPL)		dBA	71	71.6	72.2	72.8	73.4	74	72	72.6	73.2	73.8	74.4	75	73	73.6	74.2	74.8	75.4	76
Standard AHU Controller Model			PAC-AH500M-J x 2						PAC-AH250M-J x 1 + PAC-AH500M-J x 2						PAC-AH500M-J x 3					
Pipe connections	Liquid pipes	mm	15.88(Brazing connection) x 2						15.88(Brazing connection) x 2 + 12.7(Brazing connection) x 1						15.88(Brazing connection) x 3					
	Gas pipes	mm	28(Brazing connection) x 2						28(Brazing connection) x 2 + 22(Brazing connection) x 1						28(Brazing connection) x 3					
	Drain pipes	mm	DN32(External thread)						DN32(External thread)						DN32(External thread)					
Refrigerant Control			Electronic expansion valve						Electronic expansion valve						Electronic expansion valve					

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MODEL			MDX080DAR MDX080DBR						MDX100DAR MDX100DBR						MDX120DAR MDX120DBR					
Total Cooling capacity		NET(kW)	226.3	225.4	224.5	223.5	222.5	221.5	279.8	278.8	277.7	276.7	275.6	274.5	340.0	338.6	337.2	335.9	334.4	332.9
Total Sensible Cooling capacity			172.3	171.4	170.5	169.5	168.5	167.5	213.5	212.5	211.4	210.4	209.3	208.2	259.4	258.0	256.6	255.3	253.8	252.3
Total Cooling capacity		GROSS(kW)	240.1						295.9						360.3					
Total Sensible Cooling capacity			186.1						229.6						279.7					
Input power		kW	13.8	14.7	15.6	16.6	17.6	18.6	16.1	17.1	18.2	19.2	20.3	21.4	20.3	21.7	23.1	24.4	25.9	27.4
Air Flow		CMH	40000						49200						60000					
Ent.Temp.		°CDB/°CWB	27/19						27/19						27/19					
Coil Type			DX COIL (R410A) 9.52mm louvered fins																	
Coil Face Area		m²	4.56						5.38						6.46					
Coil Face Vel.		m/s	2.44						2.54						2.58					
Air PD.In Coil		Pa	145						155						155					
Air PD.In Pre Filter		Pa	65						65						65					
Air Filter Size		24"*12"*2"	-						6						-					
		24"*20"*2"	-						-						-					
		24"*24"*2"	12						12						18					
Air PD.In Casing		Pa	30						30						30					
ESP.Initial		Pa	250	300	350	400	450	500	250	300	350	400	450	500	250	300	350	400	450	500
Total Static Pressure		Pa	490	540	590	640	690	740	500	550	600	650	700	750	500	550	600	650	700	750
Fan Type			FORWARD CURVE																	
Fan Model			FDA500T2M						FDA560T2M						FDA630T2M					
Fan Motor		kW	15	18.5				18.5				22		22	30					
		Pole	4						6	4				6		4				
Power Supply(50Hz/60Hz)		Volt/Ph./Hz.	380/3/50 380/3/60																	
FLA(IE3)		amp	29	36				36				43.5		43.5	58					
Machine Weight	DA	kg	1085	1120				1360				1375		1590	1595					
	DB	kg	1250	1285				1585				1600		1825	1835					
Sound Pressure Level(SPL)		dBA	74	74.6	75.2	75.8	76.4	77	75	75.6	76.2	76.8	77.4	78	76	76.6	77.2	77.8	78.4	79
Standard AHU Controller Model			PAC-AH500M-J x 4						PAC-AH250M-J x 2 + PAC-AH500M-J x 4						PAC-AH500M-J x 6					
Pipe connections	Liquid pipes	mm	15.88(Brazing connection) x 4						15.88(Brazing connection) x 4 + 12.7(Brazing connection) x 2						15.88(Brazing connection) x 6					
	Gas pipes	mm	28(Brazing connection) x 4						28(Brazing connection) x 4 + 22(Brazing connection) x 2						28(Brazing connection) x 6					
	Drain pipes	mm	DN32(External thread)						DN32(External thread)						DN32(External thread)					
Refrigerant Control			Electronic expansion valve						Electronic expansion valve						Electronic expansion valve					

Notes:1.The unit is single cooled and has no heating parameters

2.The capacity shown is the capacity under 27°C DB/19°C WB and 35°C ambient air conditions. Pipe length : 7.5m, Level difference : 0m.

3.Net capacity includes indoor fan heat, gross capacity do not include indoor fan heat.

4.The data in this table is for reference only, Actual selections should be based on the software.

5.The unit is equipped with a standard starter(AC Plug fan is VFD variable-frequency started), please contact CLIMAVENETA office for more control requirements.

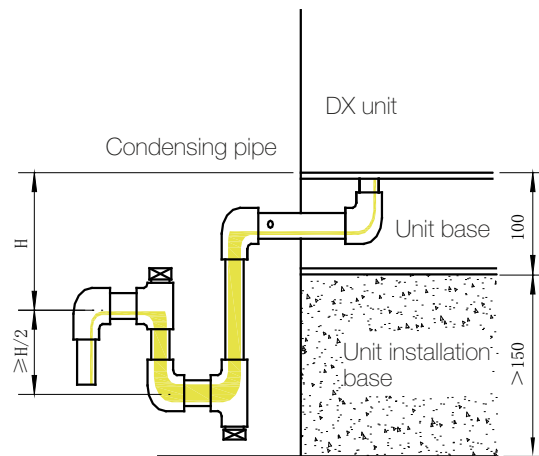
Installation, Operation and Maintenance

Lifting and rigging

- The unit shall be supplied with lifting lugs fitting for forking and lifting. And protection gaskets should be set up between the unit and the strap preventing the damage during the lifting. All straps shall keep away from all the water and air duct connectors.
- Do not use the crowbar or other identical tools to rig the unit in order to avoid units deformation.

Installation and Piping

- The units shall be suspended in the horizontal level.
- Considering the unit installation, operation, usual inspection and servicing, it's suggested that 1m clearance from the unit shall be recommended.
- Ducts shall be connected in the direction displayed on the units label, and shall be treated with balance strength preventing the damage of copper tubes or drain pipes.
- The unit can't afford the weight of air ducts or water pipes. And flexible connectors shall be fixed between air ducts and water pipes to isolate the vibration.
- Thermal insulation treatment shall be applied on the liquid, gas, and drain pipe connection.
- The water seal pipe (water trap) shall be equipped at the section of drain pipe outlet for the removal of condensate (shown as the following picture).



Note: $H = \text{max. negative pressure (mm)} + 50\text{mm}$

Wiring and start-up procedure

- The electrical construction should be conducted in accordance with relevant specifications and following the unit-attaching technical manual.
- Units should be grounding treated. And motors shall be connected to the power supply with overload protection.
- It is recommended to clean all contaminants inside the fan casing, and inspect the following items before the set-up procedure. All valves shall be checked and guaranteed in the normal condition. Fan wheels shall be inspected without abnormal noise by manually rotating the fan. And all connection sections shall be examined ensuring without shedding off.
- It's recommended to check the electric wiring connection, fan rotating direction before the set-up procedure.

Operation and maintenance

- Before the operation of units, inspection process is required, such as valve conditions and other components.
- Filters shall be cleaned or replaced accordingly depending on the cleanliness of the filters or recommended pressure difference.
- The bearing lubrication and belt tension condition of unit fans shall be inspected regularly.

For more details about units' installation, operation and maintenance could refer to the unit attaching "Installation & Operation Manual".



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