



Energy Efficiency Grant

Co-funding support to help businesses improve their energy efficiency by investing in energy-efficient (EE) equipment, utensils.
For eligible companies in the Construction, Data Centre, Food Services, Manufacturing (including Food Manufacturing), Maritime and Retail sectors



Up to

70% FUNDING
from EEG & E2F Grants

MINI VRF

ATOM B CATALOGUE



A COLLECTION OF ATOM B SERIES DESIGNED FOR YOUR NEEDS.

Midea MBT

Midea MBT(Midea Building Technologies) is a key division of the Midea Group, a leading provider of comprehensive solutions of intelligent building, involving energy sources, elevators, control systems, and heating, ventilation & air conditioning.

Midea MBT has continued with the tradition of innovation upon which it was founded and emerged as a global leader in the HVAC and building management industry. A strong drive for advancement has resulted in an extensive R&D department that has placed Midea MBT at the forefront of a competitive edge. Through these independent projects and joint-cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide. Several production bases are situated on Shunde, Chongqing, Hefei, and Italy. MBT Shunde: 38 product lines focusing on VRF, Split Products, Heat Pump Water Heaters and AHU/FCU. MBT Chongqing: 14 product lines focusing on Water Cooled Centrifugal/Screw/Scroll Chillers, Air Cooled Screw/Scroll Chillers and AHU/FCU. MBT Hefei: 11 product lines focusing on VRF, Chillers and Heat Pump Water Heaters. Clivet S.p.A: 50,000m² workshop in Feltre and Verona, covering products such as ELFO system, hydronic, WHLP, packaged, split and close control and so on.



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ATOM VRF Outdoor Unit

kW		8	10	12	14	16
kBtu/h		28	36	42	48	56
Outdoor Light						
						

Functions		Atom B
High Efficiency	Full inverter compressors	•
	Full DC fan motors	•
High Reliability	Anti - corrosion protection	•
	Refrigerant cooling PCB	•
Enhanced Comfort	Intelligent defrosting technology	•
	Multiple priority modes	•
Easy Installation and Service	Auto addressing	•
	Long piping length	•
	Digit display	3 digit 7-segment display
	All flare connections	•
	Saving more installation space	•
	Easy transportation	•
Tool and Support	MSSP software	•
	Flash AC Design APP	•

Note:
-equipped as standard

WIDE CAPACITY RANGE

Wide Capacity Range

Atom's capacity is from 28kBtu/h to 56kBtu/h. The wide capacity range adapt to more conditions. It can help to freeing up considerable space outside by less number of outdoor units.



1 to 9 Indoor Units Connection

A single outdoor unit supports 1 to 9 indoor units, freeing up considerable space outside. Use your backyard more wisely with much more space available created by less number of outdoor units.



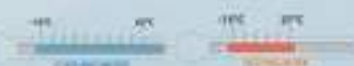
Wide Range of Indoor Units

Atom B indoor units including One-way cassette, Four-way cassette, Compact Four-way cassette, Wall mounted, Ceiling & Floor, Medium static pressure duct, Arc series duct and High static pressure duct. The capacity is from 5kBtu/h to 56kBtu/h. Multiple types of indoor units to meet varied indoor requirements.



Wide Operation Range

The VRF system operates stably under extreme conditions, ranging from minus -15°C to 55°C.



HIGH EFFICIENCY, HIGH RELIABILITY

DC Inverter Compressor

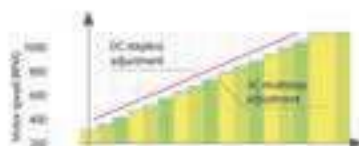
DC inverter compressors make the output of the outdoor unit to be modulated by the cooling or heating demands of the zone that it controls. This advanced system ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the environment.



- Highly Efficient DC Motor
 - Creative motor core design
 - High density neodymium magnet
 - Concentrated type stator
 - Wide operating frequency range
- Better Balance and Extremely Low Vibration
 - Twin eccentric cams
 - 2 balance weights
- Highly Stable Moving Parts
 - Optimal material matching rollers and vanes
 - Optimize compressor drive technology
 - Highly robust bearings
 - Compact structure

DC Fan Motor

DC fan motor features in DC stepless adjustment, maintaining system with the minimum power consumption, which offer you best comfort and less cost.



Refrigerant Cooling PCB

The unit uses refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components by about 8 degrees, guaranteeing the stable and safe running of the control system.



QUICK INSTALLATION, EASY INSTALLATION

All Flare Connections, The Easiest VRF to Install

The ATOM B series VRF system uses all flare connection which can greatly simplify installation. The multiple branch header with 1 to 2, 3, 4, 5 or 6 options further simplify installation.



Less Required Space for VRF Installation

There's only one pipe for ATOM B VRF to connect indoor and outdoor units, which not only includes less special pipe and punching needs, but also reduces pipes space. In this way, there would be less occupied space for VRF installation.



Four-Way Piping Connection

A four-direction space is available for connecting pipes and wiring in various installation sites.



Auto Addressing

Outdoor units can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.



Saving More Installation Space

The capacity of a single unit can be up to 60kBTu/h, and the minimum footprint is 0.39m². The smaller footprint allows for a variety of installation spaces.



Easy Transportation

Atom B Series VRF can be transported by elevator which makes installation dramatically easy, and effectively reduces time and labor thanks to the small size.



Long Piping Length

ATOM B series Mini VRF provides a total piping length possibility of 130m, a maximum height difference between outdoor and indoor units of 30m. The height difference between indoor units can be up to 10m. These generous allowances facilitate an extensive array of system designs.

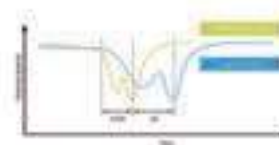
Capacity(kW)		4kW	6kW	8kW	
Pipe Length	Total Pipe Length(Actual)	70	90	130	
	Longest piping	Actual Length	35	45	60
		Equivalent Length	40	50	70
Level difference	Equivalent piping length (from the farthest IDU to the first indoor branch joint/header)	20	20	20	
	Level difference between IDU-ODU	Outdoor Unit Up	10	20	30
		Outdoor Unit Down	10	20	20
		Level difference between IDU-IDU	10	10	10



ENHANCED COMFORT

Intelligent Defrosting Technology

The intelligent defrosting program calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting. A specialized defrosting valve reduces time required for defrosting to as little as four minutes.

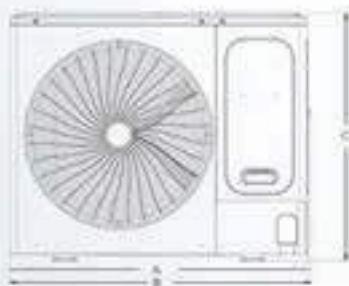


ATOM B SERIES - HEAT PUMP

Model			MDV-V28WDHN1(SG)	MDV-V36WDHN1(SG)	MDV-V42WDHN1(SG2)	MDV-V48WDHN1(SG2)	MDV-V56WDHN1(SG2)
Power supply		V-Ph-Hz	220-240/1/ 50(60)				
Cooling ¹	Capacity	kBtu/h	27	34	41	46	52
		kW	8.07	9.97	12.02	13.31	14.14
	Input	kW	1.48	2.02	2.46	2.73	3.07
	COP	kW/ KW	5.45	4.94	4.88	4.87	4.92
			5v	5v	5v	5v	5v
Heating ²	Capacity	kBtu/h	30	41	47	54	61
		kW	9	12	14	16	18
Connectable	Total capacity		60~130%				
Indoor unit	Quantity		4	6	7	8	9
Compressor	Type		DC inverter				
	Quantity		1				
	Oil type		RB74AF				
Fan	Motor type		DC motor				
	Quantity		1				
	Output	W	170				
Outdoor air flow	m3/h		5200				
Sound pressure level ³	dB(A)		56				57
Net dimensions (W×H×D)	mm		950×840×440				1040×865×523
Packed dimensions (W×H×D)	mm		1025×950×510				1120×980×560
Net weight	kg		62.5		75	79.5	93
Gross weight	kg		70		82	86.5	101
Refrigerant	Type		R410A				
	Factory charge	g	3200		3100	3600	4600
	Throttle type		Electronic expansion valve				
Pipe connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				Φ19.1
Ambient Temp. operation range	Cooling	°C	-5~55				
	Heating	°C	-15~27				
MCA	A		35				40
MFA	A		40				
Energy Labelling Scheme							

Notes:
 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference connect to Cassette type indoor unit.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 4°C WB; equivalent refrigerant piping length 7.5m with zero level difference connect to Cassette type indoor unit.
 3. Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Outdoor Condenser Dimension

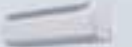


Atom B Series VRF 50/60Hz

Model	A	B	C	D	E	F	G	H	I
28/36/42/48	950	7	406	360	175	590	840	390	440
56	1040	1053	452	410	191	656	865	463	523

INDOOR UNIT LINEUP

Atom VRF Indoor Unit

kW		2.8	3.6	4.5	5.6	7.1	8	9	10	11.2	14	16
Btu/h		9K	12K	15K	18K	24K	28K	32K	36K	40K	48K	56K
One-way Cassette		●	●	●	●	●						
Four-way Cassette		●	●	●	●	●	●	●	●	●	●	●
Compact Four-way Cassette		●	●	●								
Arc Series Duct		●	●	●	●	●						
Medium Static Pressure Duct		●	●	●	●	●	●	●		●	●	●
High Static Pressure Duct						●	●	●		●	●	●
Wall Mounted		●	●	●	●	●	●	●				
Ceiling & Floor			●	●	●	●	●	●		●	●	

Indoor Unit Functions

Functions			One-way Cassette	Compact Four-way Cassette	Four-way Cassette	Arc Series Duct	Medium Static Pressure Duct	High Static Pressure Duct	Wall Mounted	Ceiling & Floor
Comfort	Cold air prevention	When starting to warm up, the fan speed is automatically adjusted according to cold temperature to prevent cold air discharge. After warming up, fan speed is set as desired.	•	•	•	•	•	•	•	•
	Quiet operation	All indoor units are quiet operation.	•	•	•	•	•	•	•	•
	Auto cooling/heating charge control ¹	Automatically selects cooling or heating mode to achieve the set temperature.	•	•	•	•	•	•	•	•
	Digital display on/off	Indoor unit display can be shut off at night, creating a better environment for rest.	•	•	•	•	•	•	•	•
	Beeper sound on/off	The beeper sound of the indoor unit can be turned off to create a quieter environment.	•	•	•	•	•	•	•	•
	Real modification compensation	The real modification compensation function in HEAT mode obtains a value that more closely reflects the true temperature of the air conditioned space.	•	•	•	•	•	•	•	•
	Two thermostat control	The indoor temperature can be checked using the thermostat in the remote control as well as from the indoor unit.	•	•	•	•	•	•	•	•
Health	5°C/1°F setting temperature adjustment	Set temperature can be adjusted to 5°C or 1°F steps, enabling precise comfort control.	•	•	•	•	•	•	•	•
	Air filter	Removes airborne dust particles to ensure a steady supply of clean air.	•	•	•	•	•	•	•	•
	Fresh air intake	A reserved outside air intake port allows outdoor air to be introduced directly into the unit.	• (15-20)	•	•	•	•	•	•	•
Air flow	Fan speed indicator signal	The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.	•	•	•	•	•	•	•	•
	Vertical swing	Possibility to select automatic vertical moving of the air discharge louvers for uniform air flow and temperature distribution.	5 steps setting (auto)	8 steps setting (auto)	5 steps setting (auto)	•	•	•	5 steps setting (auto)	5 steps setting (auto)
	Horizontal swing	Possibility to select automatic horizontal moving of the air discharge louvers for uniform air flow and temperature distribution.	Manually set fixed angle (auto)	•	•	•	•	•	•	Manually set fixed angle (auto)
	Fan speed steps	3 or 7 fan speeds can be selected to optimize comfort levels.	3 speeds	7 speeds	7 speeds	7 speeds	7 speeds	7 speeds	7 speeds	7 speeds
	Individual louver control	Individual louver control via the remote controls controller makes it possible to fix the position of each flap individually.	•	•	• (STOP panel)	•	•	•	•	•
Remote control & timer	Auto fan speed	Automatically controls rotation speed of fan depending on indoor load to achieve efficiency and comfort simultaneously.	•	•	•	•	•	•	•	•
	Self clean mode	Supply air against the ceiling to create healthier environment.	•	•	•	•	•	•	•	•
	Adjustable ESP	ESP can be adjusted over a wide range to ensure consistent airflow.	•	•	•	•	10 steps (20% to 90%)	•	•	•
	Timer	Timer can be set to start and stop operation anytime on a daily or weekly basis.	•	•	•	•	•	•	•	•
	Indoor remote control	Indoor remote control with LCD to remotely control your indoor unit.	•	•	•	•	•	•	•	•
Other functions	Wind remote control	Wind remote control to remotely control your indoor unit.	•	•	•	•	•	•	•	•
	Group control	Up to 8 indoor units can be in a group control system.	•	•	•	•	•	•	•	•
	Centralized control	Centralized control to control several indoor units from one single point.	•	•	•	•	•	•	•	•
	°C/°F setting	Temperature unit °C or °F can be set according to user usage habits.	•	•	•	•	•	•	•	•
	Energy saving ²	Using Indoor Remote Controller automatically turns indoor units on or off upon sensing that the room is occupied or unoccupied, ensuring climate control whilst reducing energy consumption.	•	•	•	•	•	•	•	•
Other functions	Auto-restart	The unit restarts automatically at the original settings after power failure.	•	•	•	•	•	•	•	•
	Self diagnosis	Signifies maintenance by indicating system faults or operating anomalies.	•	•	•	•	•	•	•	•
	Drain pump	For better condensation draining from the indoor unit.	•	•	•	•	•	•	•	•
	Fan only	The air conditioner can be used as fan blowing air without cooling or heating.	•	•	•	•	•	•	•	•
	Long distance on/off function	Long distance startup or shutdown the system.	•	•	•	•	•	•	•	•
Other functions	Long distance alarm function	Long distance alarm when an error occurs.	•	•	•	•	•	•	•	•
	Multiple protection	Multiple protections make the unit run more reliably.	•	•	•	•	•	•	•	•
	Fan cleaning	The unit's easy cleaning thanks to the rational design.	•	•	•	•	•	•	•	•

Notes:
 1. Equipped as standard. 2. Optional option. 3. Refer to the function.
 4. When set as fan only mode for detailed information.
 5. The indoor unit must be equipped with an on-off control (STOP panel) with individual louver control (paper controller) for paper controller function.
 6. Energy saving function used in the indoor unit (stop indoor remote control).

ONE-WAY CASSETTE

Model			MDV-D09Q1/N1-D(A)	MDV-D12Q1/N1-D(A)	MDV-D15Q1/N1-D(A)	MDV-D18Q1/N1-D(A)	MDV-D24Q1/N1-D(A)
Power supply			1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	BTU (kW)	9(2.8)	12(3.6)	15(4.5)	19(5.6)	24(7.1)
	Input	W	41		48		60
Heating ²	Capacity	kW	10(3.2)	13(4)	17(5)	21(6.3)	27(8)
	Input	W	41		48		60
Indoor fan motor	Type		AC				
	Quantity		1				
Airflow rate(H/M/L)		m ³ /h	573/456/315		693/600/476	792/688/549	933/749/592
Sound pressure level (H/M/L) ³		dB(A)	39/37/34		41/39/35	42/40/36	44/41/37
Refrigerant type			R410A				
Indoor unit	Dimension ⁴ (WxHxD)	mm	1054x153x425			1275x189x450	
	Packing (WxHxD)	mm	1155x245x490			1370x295x505	
	Net/Gross weight	kg	13/16.5			18.5/22.8	18.8/23.1
Panel	Dimension (WxHxD)	mm	1180x25x465				1350x25x505
	Packing (WxHxD)	mm	1232x107x517				1410x95x560
	Net/Gross weight	kg	3.5/5.2				4/5.4
Pipe connections	Liquid pipe	mm	Φ6.35				Φ9.53
	Gas pipe	mm	Φ12.7				Φ15.9
	Drain pipe	mm	OD Φ25				

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

FOUR-WAY CASSETTE

360° airflow for immediate, equal distribution of wider-angle cooling and heating, idea for standard ceilings.

Model			MDV-D12Q4/N1-E(A)	MDV-D15Q4/N1-E(A)	MDV-D18Q4/N1-E(A)	MDV-D24Q4/N1-E(A)	MDV-D28Q4/N1-E(A)
Power supply			1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	BTU (kW)	12(3.6)	15(4.5)	19(5.6)	24(7.1)	27(8)
	Power input	W	80		88		110
Heating ²	Capacity	kW	13(4)	17(5)	21(6.3)	27(8)	30(9)
	Power input	W	80		88		110
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Airflow rate (H/M/L)		m ³ /h	764/638/554	905/740/651		950/767/663	1200/1021/789
Sound pressure level (H/M/L) ³		dB(A)	32/31/30	36/34/33		38/36/35	42/39/37
Indoor unit	Dimension ⁴ (WxHxD)	mm	940x230x840				
	Packing (WxHxD)	mm	955x260x955				
	Net/Gross weight	kg	21.5/26.7		23.7/28.9		
Panel	Dimension (WxHxD)	mm	990x50x680				
	Packing (WxHxD)	mm	1035x88x1035				
	Net/Gross weight	kg	5.8/7.9				
Pipe connections	Liquid pipe	mm	Φ6.35		Φ9.53		
	Gas pipe	mm	Φ12.7		Φ15.9		
	Drain pipe	mm	ODØ32				

Model			MDV-D32Q4/N1-E(AI)	MDV-D36Q4/N1-E(AI)	MDV-D40Q4/N1-E(AI)	MDV-D40Q4/N1-E(AI)	MDV-D56Q4/N1-E(AI)
Power supply			1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kBTU(kW)	30(9)	34(10)	38(11.2)	47(14)	54(16)
	Power input	W	140	165	176	170	170
Heating ²	Capacity	kBTU(kW)	34(10)	37(11.1)	42(12.5)	54(16)	61(18)
	Power input	W	140	165	176	170	170
Indoor fan motor	Type		AC				DC
	Quantity		1				
Refrigerant type			R410A				
Airflow rate(H/M/L)		m ³ /h	1332/1129/908	1651/1304/1127	1658/1335/1130	2100/1950/1800/1750/1600/1450/1350	
Sound pressure level(H/M/L) ³		dB(A)	43/39/38	45/42/40	46/41/39	46/44/42/41/39/38/37	
Indoor unit	Dimension(W×H×D)	mm	840×300×840				
	Packing(W×H×D)	mm	955×330×955				
	Net/Gross weight	kg	28.7/34.1	28.7/34.1	28.7/34.1	30.9/36.3	35.3/41.2
Panel	Dimension(W×H×D)	mm	950×50×950				
	Packing(W×H×D)	mm	1035×89×1035				
	Net/Gross weight	kg	5.8/7.9				
Pipe connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
	Drain pipe	mm	OD Φ32				

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

COMPACT FOUR-WAY CASSETTE

Compact design allows installation in shallow ceilings

Model			MDV-D09Q4/N1-A3(AI)	MDV-D12Q4/N1-A3(AI)	MDV-D15Q4/N1-A3(AI)
Power supply			1 phase, 220-240V, 50Hz		
Cooling ¹	Capacity	kBTU(kW)	9(2.8)	12(3.6)	15(4.5)
	Power input	W	50	56	56
Heating ²	Capacity	kBTU(kW)	10(3.2)	13(4)	17(5)
	Power input	W	50	56	56
Indoor fan motor	Type		AC		
	Quantity		1		
Refrigerant type			R410A		
Airflow rate(H/M/L)		m ³ /h	414/313/238	521/409/314	
Sound pressure level(H/M/L) ³		dB(A)	36/33/23	42/36/29	
Indoor unit	Dimension(W×H×D)	mm	570×260×630		
	Packing(W×H×D)	mm	675×285×675		
	Net/Gross weight	kg	17/20	18.5/21.5	18.5/21.5
Panel	Dimension(W×H×D)	mm	647×50×647		
	Packing(W×H×D)	mm	715×123×715		
	Net/Gross weight	kg	2.5/4.5		
Pipe connections	Liquid pipe	mm	Φ6.35		
	Gas pipe	mm	Φ12.7		
	Drain pipe	mm	OD Φ25		

ARC SERIES DUCT

Ultra-thin body, narrow ceiling space requirement.

Model		MDV-DV09T2HN1-Arc(AI)	MDV-DV12T2HN1-Arc(AI)	MDV-DV15T2HN1-Arc(AI)	MDV-DV18T2HN1-Arc(AI)	MDV-DV24T2HN1-Arc(AI)
Power supply	V-Ph-Hz	1 phase, 220-240V/50/60Hz				
Cooling capacity	kBtu/h(kW)	9(2.8)	12(3.6)	15(4.5)	19(5.6)	24(7.1)
Heating capacity	kBtu/h(kW)	10(3.2)	13(4)	17(5)	21(6.3)	27(8)
Fan motor type		DC				
Fan motor quantity		1				
Refrigerant type		R410A				
Airflow	m ³ /h	460/430/410/ 380/350/320/300	605/550/500/ 450/410/360/320	805/720/660/ 625/560/515/435	900/780/745/ 655/580/560/470	1145/1000/930/ 840/750/665/580
External static pressure (Std/Min-Max)	Pa	10(10-50)				
Sound pressure level	dB(A)	30/29/28/ 27/26/25/24	30/29/28/ 27/26/25.5/25	34/33/32/ 30/29/28/26	36/34/33/ 32/31/30/28	37/35/34/ 32.5/31/30/29
Dimension (W×H×D)	mm	550×199×450	700×199×450	900×199×450		1100×199×450
Packing (W×H×D)	mm	715×275×525	865×275×525	1065×275×525		1265×275×525
Net/Gross weight	kg	11.5/14	13.5/16	17/20		20.5/24
Liquid pipe	mm	Φ6.35			Φ9.53	
Gas pipe	mm	Φ12.7			Φ15.9	
Drain pipe	mm	OD Φ25				

MEDIUM STATIC PRESSURE DUCT

Slim, compact design for limited space with duct distribution to the indoor space.

Model			MDV-D09T2/N1-DAS (AI)	MDV-D12T2/N1-DAS (AI)	MDV-D15T2/N1-DAS (AI)	MDV-D18T2/N1-DAS (AI)	MDV-D24T2/N1-DAS (AI)
Power supply			1 phase, 220-240V, 50Hz				
Cooling 1	Capacity	BTU (kW)	9(2.8)	12(3.6)	15(4.5)	19(5.6)	24(7.1)
	Input	W	57	61	98	103	140
Heating 2	Capacity	kW	10(3.2)	13(4)	17(5)	21(6.3)	27(8)
	Input	W	57	61	98	103	140
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Airflow rate	(H/M/L)	m ³ /h	550/597/909	605/442/351	800/573/479	800/573/479	985/738/630
External static pressure (Std/Min-Max)		Pa	10(10-30)				
Sound pressure level (H/M/L)		dB(A)	31/24/21	35/28/24	36/29/26	36/29/27	36/30/27
Indoor unit	Dimension (W×H×D)	mm	778x210x500		997x210x500		1218x210x500
	Packing (W×H×D)	mm	870x285x525		1115x285x525		1335x285x525
	Net/Gross weight	kg	17.5/20		22/25		27.5/31
Piping connections	Liquid pipe	mm	Φ6.35				Φ9.53
	Gas pipe	mm	Φ12.7				Φ15.9
	Drain pipe	mm	OD Φ25				

Model			MDV-D28T2/N1-DAS (AI)	MDV-D32T2/N1-DAS (AI)	MDV-D40T2/N1-DAS (AI)	MDV-D48T2/N1-DAS (AI)	MDV-D56T2/N1-DAS (AI)	
Power supply			1 phase, 220-240V/50Hz					
Cooling 1	Capacity	BTU (kW)	27(8)	30(9)	38(11.2)	47(14)	54(16)	
	Input	W	198	200	313	274	940	
Heating 2	Capacity	kW	30(8)	34(10)	42(12.5)	52(15.5)	58(17)	
	Input	W	198	200	313	274	940	
Indoor fan motor	Type	AC						
	Quantity	1						
Refrigerant type			R410A					
Airflow rate	(H/M/L)	m ³ /h	1345/1165/1013		1800/1556/1400	1905/1636/1400	2875/2587/2383	
External static pressure (Std/Min-Max)		Pa	20(10-50)		40(10-80)	40(10-100)	50(50-198)	
Sound pressure level (H/M/L)		dB(A)	45/40/37		48/42/38	48/43/39	52/50/48	
Indoor unit	Dimension (W×H×D)	mm	1230×270×775			1290×300×865		1322×423×891
	Packing (W×H×D)	mm	1355×350×795			1400×375×925		1436×450×768
	Net/Gross weight	kg	37.5/43			46.5/55.5		67/73
Piping connections	Liquid pipe	mm	Φ9.53					
	Gas pipe	mm	Φ15.9					
	Drain pipe	mm	OD Φ25					

Model			MDV-D28T2/VN1-DAS(AI)	MDV-D32T2/VN1-DAS(AI)	MDV-D40T2/VN1-DAS(AI)	MDV-D48T2/VN1-DAS(AI)	MDV-D56T2/VN1-DAS(AI)
Power supply			1 phase, 220-240V,60Hz				
Cooling ¹	Capacity	kBTU(kW)	27(8)	30(9)	38(11.2)	47(14)	54(16)
	Power input	W	133	134	378	352	532
Heating ²	Capacity	kBTU(kW)	30(9)	34(10)	42(12.5)	52(15.5)	58(17)
	Power input	W	133	134	378	352	532
Indoor fan motor	Type	AC					
	Quantity	1					
Refrigerant type			R410A				
Airflow rate(H/M/L)		m ³ /h	1345/1165/1013		1800/1556/1400	1905/1636/1400	2875/2587/2383
Indoor external static pressure		Pa	20(10-50)		40(10-80)	40(10-100)	50(50-196)
Sound pressure level (H/M/L) ³		dB(A)	45/40/37		48/42/38	48/43/39	52/50/48
Indoor unit	Dimension (W×H×D) ⁴	mm	1230×270×775			1290×300×865	1322×423×691
	Packing (W×H×D)	mm	1355×350×795			1400×375×925	1436×450×768
	Net/Gross weight	kg	37.5/43		46.5/55.5		67/73
Pipe connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
	Drain pipe	mm	ODΦ25				

HIGH STATIC PRESSURE DUCT

High external static pressure with long duct distribution, ideal for large sized spaces.

Model			MDV-D32T1N1(AI)	MDV-D40T1N1(AI)	MDV-D48T1N1(AI)	MDV-D56T1N1(AI)
Power supply			1 phase, 220-240V, 50Hz			
Cooling ¹	Capacity	kBTU(kW)	30(9)	38(11.2)	47(14)	54(16)
	Input	W	423	524	724	940
Heating ²	Capacity	kBTU(kW)	34(10)	42(12.5)	54(16)	58(17)
	Input	W	423	524	724	940
Indoor fan motor	Type	AC				
	Quantity	1				
Refrigerant type			R410A			
Air flow rate(SH/H/M/L) ³		m ³ /h	1801/1687/1643/1431	2063/1939/1716/1533	2965/2561/2207/1905	3417/2875/2587/2383
Indoor external static pressure(Std/Min-Max)		Pa	37(37-196)	50(50-196)		
Sound pressure level (SH/H/M/L) ³		dB(A)	52/49/47/45	52/49/47/46	53/50/48/46	54/52/50/48
Indoor unit	Dimensions (W×H×D) ⁴	mm	965×423×690		1322×423×691	
	Packing (W×H×D)	mm	1090×440×768		1436×450×768	
	Net/Gross weight	kg	46.5/52.4	48/53	67/73	
Piping Connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9			
	Drain pipe	mm	OD Φ25			

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

WALL MOUNTED

Stylish panel, ideal for rooms with no or narrow ceilings.

Model			MI2-09GDHN18(A1)	MI2-12GDHN18(A1)	MI2-15GDHN18(A1)	MI2-18GDHN18(A1)	MI2-24GDHN18(A1)	MI2-28GDHN18(A1)
Power supply			1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kBTU (kW)	9(2.8)	12(3.6)	15(4.5)	19(5.6)	24(7.1)	28(8.2)
	Power input	W	24	27	30	40	50	65
Heating ²	Capacity	kBTU (kW)	10(3.2)	13(4.0)	17(5.0)	21(6.3)	27(8.0)	30(9.0)
	Power input	W	24	27	30	40	50	65
Fan motor	Type	DC						
Refrigerant type			R410A					
Air flow rate ³	m ³ /h	540/510/470/430/400/370/340	580/540/500/460/420/380/340	720/670/620/560/510/460/410	860/780/700/620/550/480/410	1220/1120/1030/940/850/750/660	1380/1260/1140/1020/900/780/660	
Sound pressure level ⁴	dB(A)	35/34/33/32/31/30/28	37/36/34/33/31/30/28	37/35/33/32/31/30/29	41/39/37/35/33/31/29	44/42/40/38/36/34/32	45/43/41/39/37/35/32	
Indoor Unit	Dimension s ¹ (WxHxD)	mm	750×295×265			950×295×265		1200×295×265
	Packing (WxHxD)	mm	875×385×360			1075×385×360		1315×385×360
	Net/Gross weight	kg	10/12.5	10/12.5	11.5/14		15/18	
Pipe connections	Liquid pipe	mm	Φ6.35					Φ9.52
	Gas pipe	mm	Φ12.7					Φ15.9
	Drain pipe	mm	OD Φ16					

CEILING FLOOR

Two installation options are available: horizontally against the ceiling or vertically against the floor/wall, idea for wide rooms with no ceilings.

Mode			MDV-D12DL/N1-C(A1)	MDV-D15DL/N1-C(A1)	MDV-D18DL/N1-C(A1)	MDV-D24DL/N1-C(A1)
Power supply			1 phase, 220-240V,50Hz			
Cooling ¹	Capacity	kBTU (kW)	12(3.6)	15(4.5)	19(5.6)	24(7.1)
	Input	W	49	120	122	125
Heating ¹	Capacity	kBTU (kW)	13(4)	17(5)	21(6.3)	27(8)
	Input	W	49	120	122	125
Indoor fan motor	Type		AC			
	Quantity		1			
Refrigerant type			R410A			
Airflow rate (H/M/L) ³		m ³ /h	650/570/500	800/600/500		
Sound pressure level (H/M/L)		dB(A)	40/38/36	43/41/38		
Indoor unit	Dimension (W×H×D) ⁴	mm	990×203×660			
	Packing (W×H×D)	mm	1089×296×744			
	Net/Gross weight	kg	26/32	28/34		
Piping connections	Liquid pipe	mm	Φ6.35			Φ9.53
	Gas pipe	mm	Φ12.7			Φ15.9
	Drain pipe	mm	ODΦ25			

- Notes:
- Indoor temperature: 27°C DB, 19°C WB; outdoor temperature: 35°C DB; equivalent refrigerant piping length: 7.5m with zero level difference.
 - Indoor temperature: 20°C DB; outdoor temperature: 7°C DB, 6°C WB; equivalent refrigerant piping length: 7.5m with zero level difference.
 - Floor standing: Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.
 - Ceiling mounted: Sound pressure level is measured 1m in front and 1m below the unit in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Mode			MDV-D28DL/N1-C(A)	MDV-D32DL/N1-C(A)	MDV-D40DL/N1-C(A)	MDV-D48DL/N1-C(A)
Power supply			1 phase, 220-240V,50Hz			
Cooling ¹	Capacity	kBTU (kW)	27(8)	30(9)	38(11.2)	47(14)
	Input	W	130		182	
Heating ¹	Capacity	kBTU (kW)	30(9)	34(10)	42(12.5)	51(15)
	Input	W	130		182	
Indoor fan motor	Type		AC			
	Quantity		1		2	
Refrigerant type			R410A			
Airflow rate (H/M/L) ¹		m ³ /h	1200/900/700			1980/1860/1730
Sound pressure level (H/M/L)		dB(A)	45/43/40			47/45/42
Indoor unit	Dimension (W×H×D) ¹	mm	1280×203×660			1670×244×680
	Packing (W×H×D)	mm	1379×296×744			1764×329×760
	Net/Gross weight	kg	34.5/41			54/59
Piping connections	Liquid pipe	mm	Φ6.35	Φ9.53		
	Gas pipe	mm	Φ12.7	Φ15.9		
	Drain pipe	mm	ØØ25			

BRANCH HEADER

Model	Appearance	Gas side joints (Ø15.9~Ø12.7)	Liquid side joints (Ø6.35~Ø9.53)	Heat insulation material	
1 to 2 branch header DRHQ12-02					Φ6.35~Φ9.52 (2 PC) Φ12.7~Φ15.9 (2 PC) Φ15.9~Φ19.1 (3 PC)
1 to 3 branch header DRHQ13-03				 (Please cut off the excess)	Φ6.35~Φ9.52 (3 PC) Φ12.7~Φ15.9 (3 PC) Φ15.9~Φ19.1 (3 PC)
1 to 4 branch header DRHQ14-04				 (Please cut off the excess)	Φ6.35~Φ9.52 (3 PC) Φ12.7~Φ15.9 (3 PC) Φ15.9~Φ19.1 (3 PC)
1 to 5 branch header DRHQ15-05				 (Please cut off the excess)	Φ6.35~Φ9.52 (3 PC) Φ12.7~Φ15.9 (3 PC) Φ15.9~Φ19.1 (3 PC)
1 to 6 branch header Model DRHQ16-06				 (Please cut off the excess)	Φ6.35~Φ9.52 (3 PC) Φ12.7~Φ15.9 (3 PC) Φ15.9~Φ19.1 (3 PC)

CONTROL SOLUTIONS CONTROLLER LINEUP

Wireless Remote Controllers	Wired Remote Controllers	Central Controllers Data converter
		

Remote Controllers

Features

Model	 RM23A
On / Off	●
Mode selection	●
Temperature setting	● (0.5°C or 1°C steps)
7-speed fan control	●
Auto swing	●
5-step swing louver	●
Address setting	●
Follow me	●
Eco mode	●
Silent mode	●
Display shut-off	●
Daily timer	●
Self Cleaning Mode setting	×
Sterilization function setting	×
Keyboard lock	●
Background Light	●
Indoor Unit parameter setting	●
Dimensions (H×W×D) (mm)	170×48×20
Batteries	1.5V (LR03/AAA) × 2
Indoor unit series	V8 IDU, 3rd and 2nd generation IDU

Note:

●: equipped as standard; ×: without this function

Wired Controllers

Features

Model	 WDC3-86T	 WDC3-120T
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)
Dual temperature set points	●	●
App control	●	●
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Address setting	●	●
Follow me	●	●
Meta mode	●	●
Room temperature display	●	●
*F/C display	●	●
Keyboard lock	●	●
Background light	●	●
Daily timer	●	●
Weekly schedule timer	●	●
Auto restart	●	●
2 permission levels	●	●
Bi-directional communication	●	●
Group control	●	●
Main or secondary controller setting	●	●
Display shut-off	●	●
Silent mode	●	●
Remote signal receiver	●	●
Clean filter reminder	●	●
Extension function	●	●
Daylight saving time	●	●
Clock display	●	●
Error check function	●	●
System parameter querying	●	●
After Hours/Off Timer function	●	●
Language	14 Languages	14 Languages
One to more control	●	●
Dimensions (WxHxD) (mm)	86x86x18	120x120x20
Power supply	18V DC	18V DC
Indoor unit series	3rd generation IDU and V8 IDU	

Note:

●: equipped as standard; ○: without this function

Central Controllers

Features

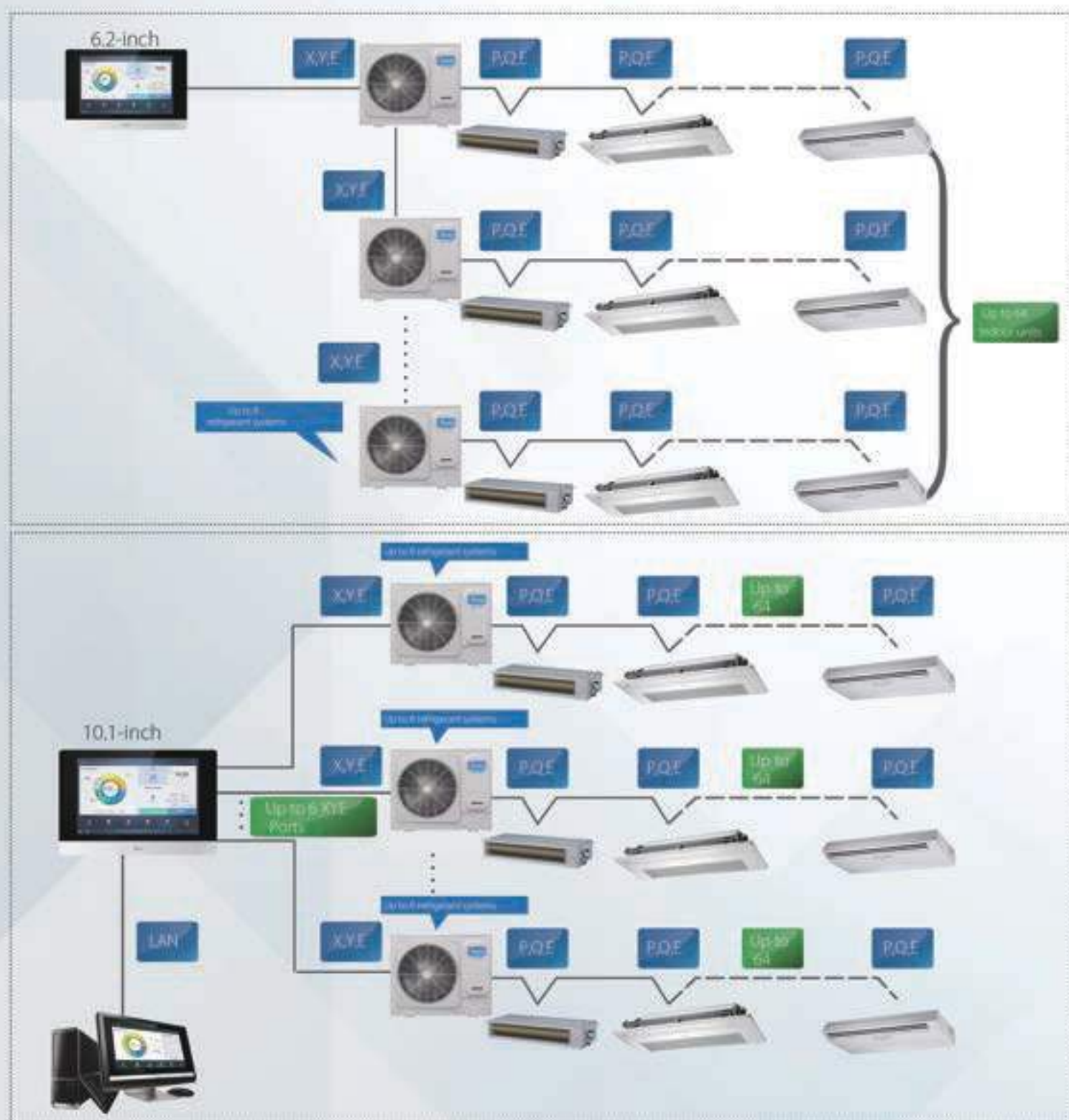
Function	 CCM-180A/BWS(A)	 CCM-270B/WS(B)
Max. number of indoor units	64	384
Max. number of refrigerant systems	8	48
Touch screen	● (6.2-inch)	● (10.1-inch)
On/Off	●	●
Mode selection	●	●
Auto swing	●	●
5-step swing louver	●	●
Room temperature display	●	●
Holiday setting	●	●
°C/°F display	●	●
Schedule management	●	●
Clock display	●	●
2 permission levels	●	●
Extension function	●	×
HRV Control	●	●
Visual schematic	×	●
Energy management	●	●
Group management	●	●
Error check function	●	●
System parameter querying	●	●
USB output	●	●
Report display	Error report	Error report and operation record
Operation log	×	●
LAN access	×	●
Language supported	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Russian, Korean	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Russian, Korean
Dimensions (W×H×D)(mm)	182×123×34	270×183×27
Power supply	12V DC	24V AC
Outdoor unit series or indoor unit series	All series	

Note:

●: equipped as standard; ×: without this function

Wiring Flexibility

The controllers can be connected to the master outdoor unit directly.



Reference projects

Features

Egypt's New Ministry Of Defense "Octagon" Complex

Q Country: Egypt
R City: Cairo
R Master Plan: 2018
R Total Capacity: 200,000



Kafra Apartments

Q Country: Egypt
R City: Cairo
R Master Plan: 2018
R Total Capacity: 200,000



Bloom Tulum Apartments

Q Country: Mexico
R City: Tulum
R Master Plan: 2018
R Total Capacity: 200,000



Green District Apartments

Q Country: Mexico
R City: Tulum
R Master Plan: 2018
R Total Capacity: 200,000



Soko Apartments

Q Country: Mexico
R City: Tulum
R Master Plan: 2018
R Total Capacity: 200,000



Oriental Residence Bangkok Apartment

Q Country: Thailand
R City: Bangkok
R Master Plan: 2018
R Total Capacity: 200,000



Soko Apartments

Q Country: Mexico
R City: Tulum
R Master Plan: 2018
R Total Capacity: 200,000



Tesla Gigafactory Shanghai

Q Country: China
R City: Shanghai
R Master Plan: 2018
R Total Capacity: 200,000





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