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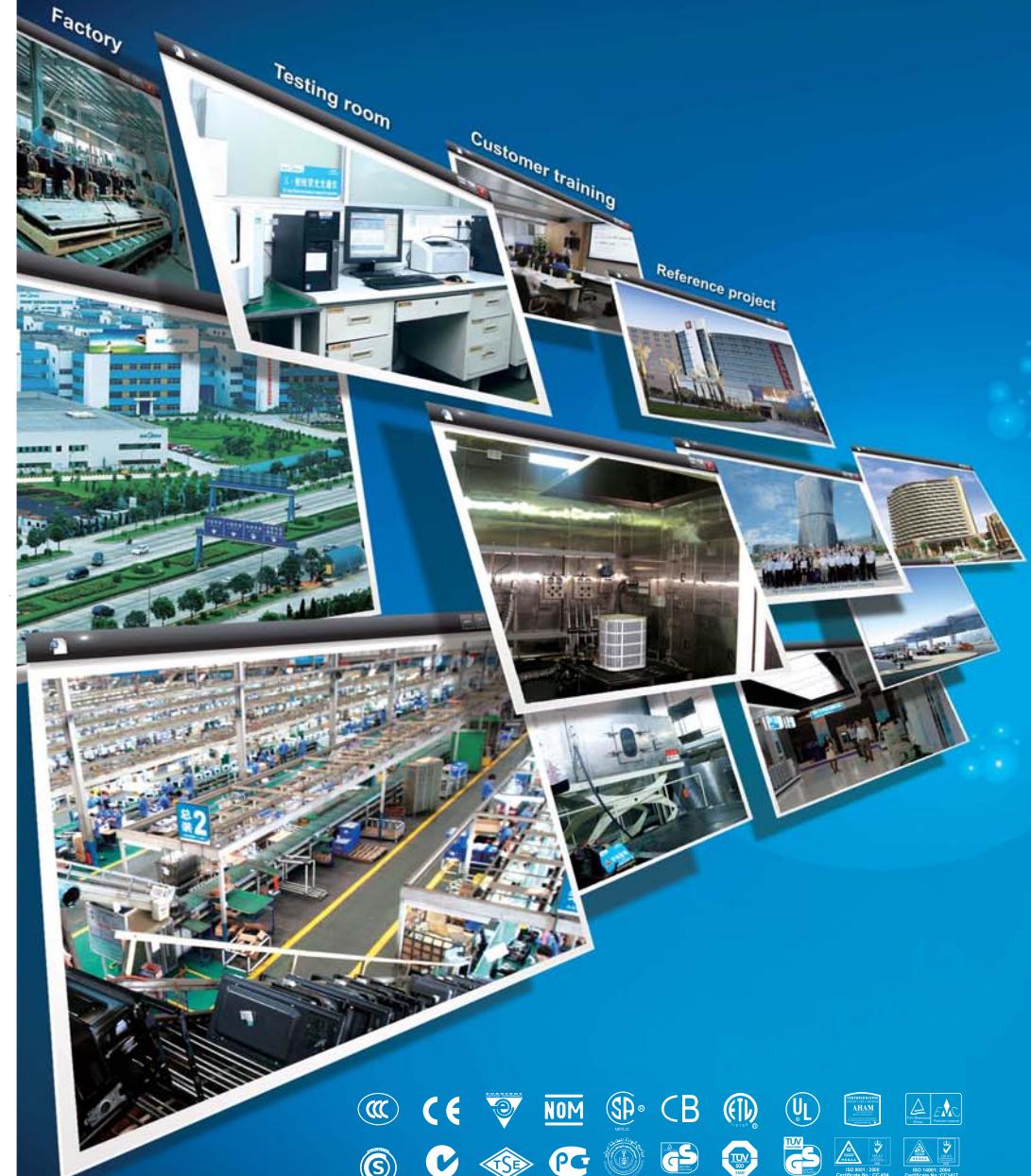
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Ver.2014.01

COMMERCIAL AIR CONDITIONERS

R410A All DC Inverter VRF V5 X Series 50/60Hz





Midea CAC (MCAC)

As a key subsidiary of Midea Group, the Midea Central Air Conditioner (MCAC) business unit has emerged as a leading supplier of commercial solutions. Since 1999 MCAC has contributed to the R&D and innovation of technologically-based commercial solutions. Cooperation with leading global enterprises coupled with independent R&D has enabled MCAC to implement thousands of commercial air-conditioning projects worldwide.

At present, MCAC is one of the globally leading product suppliers, underpinned by a mature marketing, sales, and project design framework.

There are three production bases in Shunde, Chongqing and Hefei.

MCAC Shunde: 38 product lines focusing on VRF (DC inverters and digital scroll products), split products, heat pump water heaters, and AHU/FCU.

MCAC Chongqing: 14 product lines focusing on water cooled centrifugal/screw/scroll chillers, air cooled screw/scroll chillers, and AHU/FCU.

MCAC Hefei: 11 product lines focusing on VRF, chillers, and heat pump water heaters.



2013 Launched the super high efficiency centrifugal chiller with full falling film technology

2011 Launched the DC inverter V4 Plus globally

2010 Built the 3rd manufacturing base in Hefei

2007 Won the first Midea centrifugal chiller project overseas

2006 Launched the first VSD centrifugal chiller

2004 Acquired MGRE entered the chiller industry

2001 Partnered with Copeland to develop the digital scroll VRF system

2000 Developed the first inverter VRF With Toshiba

1999 Entered the CAC field



V5 X Series

Midea is proud to introduce its V5 X SERIES VRF. Designed to optimize the system and better meet market needs.

V5 X SERIES VRF offers a large capacity from 8HP up to 88HP in 2HP increments by combining 4 outdoor units. It also incorporates a range of outstanding features, wide-range outdoor and indoor units, high external static pressure, and energy saving technologies. It supports an incredible piping length of 1,000m and a level difference of 110m, making it perfect for large high-rise buildings.

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Features
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HRV
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Features
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Features

Wide Application Range

Large capacity for big sized building

The outdoor units' capacity range from 8HP up to 88HP in 2HP increment, max. combination of 4 basic models.

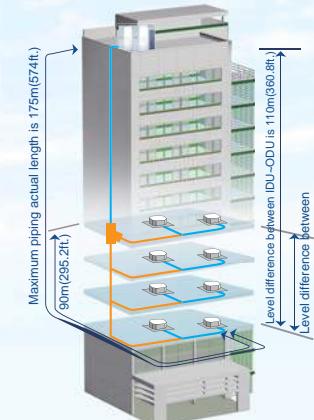


Wide choices of locations

Maximum 64 indoor units with capacity up to 130% of total outdoor units' can be connected in one refrigeration system. It is especially suitable for office buildings, hotels, apartments, waiting rooms, hospitals, and so on.



Long piping length



The solution supports an incredible piping length of 1,000m(3280ft.) and level difference of 110m(360.8ft.), making it perfect for large projects.

	Permitted value	
	m	ft.
Total pipe length*(Actual)	1000	3280
Piping length	Maximum piping(L)	Actual length
	200	656
	40/90*	131.2/295.2*
Level difference	Level difference between IDU-ODU	Outdoor unit up
	110	360.8
	30	98.4

*Total pipe length is equal to two times orange pipe length plus blue pipe length.

*When the fastest pipe length is more than 40m(131.2ft.), it needs to meet the specific condition according to the installation part of the technical service manual.

High external static pressure

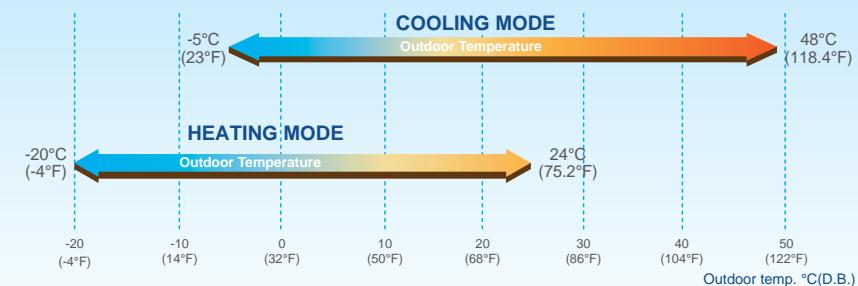
The high-static pressure propeller and optimized fan guard can adapt to various installation environments.

Midea now offers up to 40Pa(0.16" W.G.)* external static pressure units for customized applications. A standard 0-20Pa(0-0.08" W.G.) function is equipped by default.

*You need to consult Midea if you require over 40Pa(0.16" W.G.).



Wide operation range

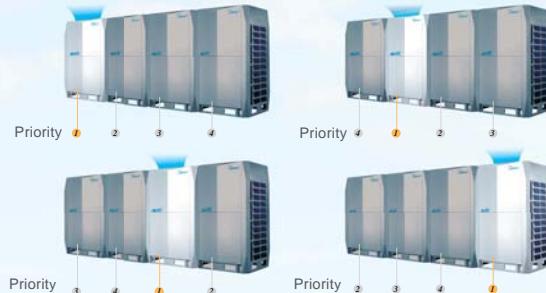


The V5 X series system operates stably at extreme temperatures ranging from -20°C(-4°F) to 48°C(118.4°F).

Higher Reliability

Duty cycling

In one combination, any outdoor unit can run as the master outdoor unit to equalize the service life of all units.



Back-up function

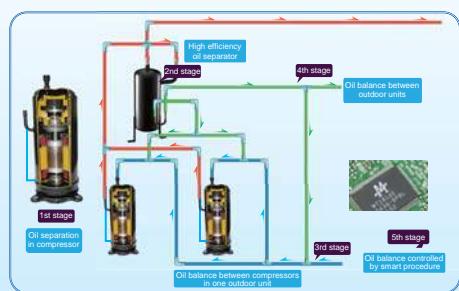
In a multiple system, when the master unit failed, any single unit can be set as the master unit, then the remaining units can keep on working. This can be set on PCB by DIP switches at site.



High efficiency oil balance and oil return technology

5 stages oil control technology ensures every outdoor unit & compressor's oil always keep in the safe level, completely solve the compressor oil shortage problem.

- **1st stage:** compressor internal oil separate.
- **2nd stage:** high efficiency centrifugal oil separator (separation efficiency up to 99%) makes oil separate from discharge gas and go back to compressors.
- **3rd stage:** oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.
- **4th stage:** oil balance pipes among modules ensure even oil distribution among modules.
- **5th stage:** Auto oil return program by monitoring the running time and state of system ensures reliable oil return.



Accurate control technology

- Double EXV and liquid side by pass solenoid valve in one system, each EXV part achieves 480 pulse to adjust flow precisely, total 960 pulse. All the solenoid valves equipped in the unit ensure temperature-control precisely, system running steadily and economically.
- 2000 pulses EXV is used in some indoor units to ensure precise refrigerant control and less temperature fluctuation for comfortable room environment.



Real-time pressure control technology

- The pressure sensor can monitor the high pressure of the system and send it to the mainboard all the time.
- The system controls the speed of DC fan motor according to the load and the high pressure, so that the pressure can be regulated precisely.
- The system can operate in the best pressure status under different working environment, the reliability will be higher and the lifespan of the system will be longer.

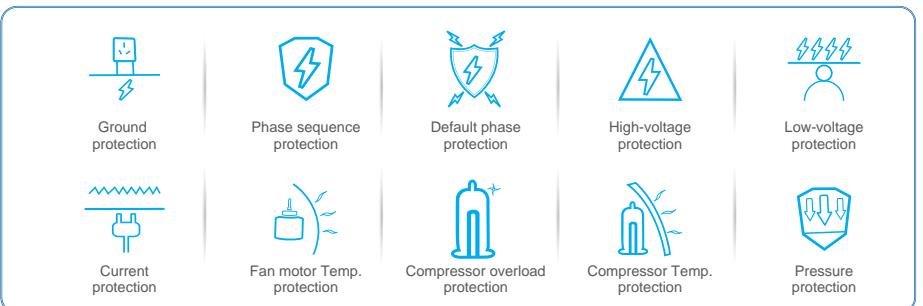


Temperature protection for electricity device



- Professional air outlet grille design, cool down control box temperature around 8°C(14.4°F).
- High temperature protection for PCB box, auto recover when temperature back to normal.

Various kinds of protect function

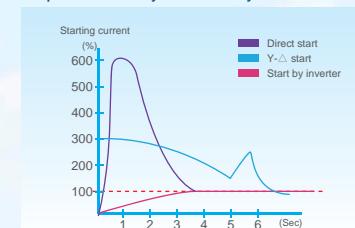


Enhanced Comfort

Intelligent soft start technology

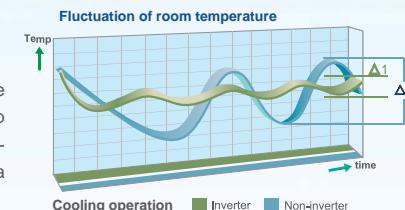
All DC inverter compressor and soft start function reduce strike to the electric network. This high-performance and low noise DC inverter compressor operates at a faster rate when starting, reducing start-up time. It also helps the unit to quickly adjust the room temperature to the set level.

Comparison of start by inverter and by traditional methods



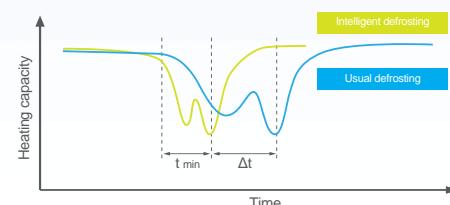
Quick warm-up and cool-down design

By utilizing the benefits of all DC inverter compressors, the system can reach full load quickly and shorten the warm-up and cool-down times to provide an immediate and comfortable air solution. Less temperature fluctuation will create a better living environment.



Intelligent defrosting technology

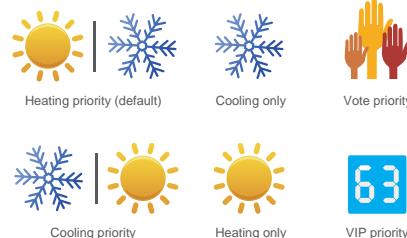
Intelligent defrosting program will judge the defrosting time according to the system real requirement, reduce the heating loss by unnecessary defrosting and make the indoor side more comfortable.



Optional operation mode

6 operation modes to be chosen:

- Heating priority mode (default)
- Cooling priority mode
- Heating only mode
- Cooling only mode
- VIP priority mode
(address no. 63 is the VIP)
- Voting priority mode
(larger capacity requirement is win)

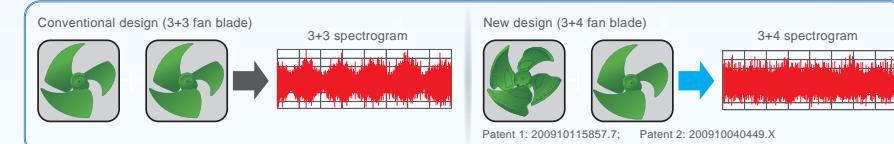


Advanced silence technology

- CFD designed new shape fan blade
- 3+4 fan blade design

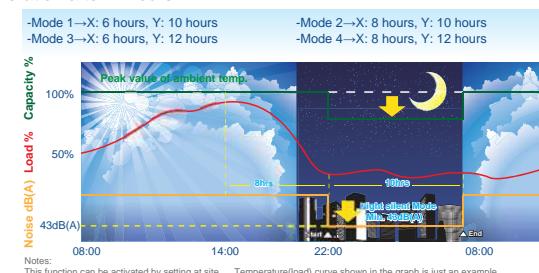


3+4 fan blade, patent design



Outdoor unit night silent mode

- Midea's Night Silent Mode feature which is easily set on the PCB board allows the unit to be set to varies time options during Non-peak and Peak operation time optimizing the units noise output. Extra silent operation mode can reduce sound level further, minimum 43dB (A).
- Night silent operation will be activated X hours after the peak temperature during daytime, and it will go back to normal operation after Y hours.



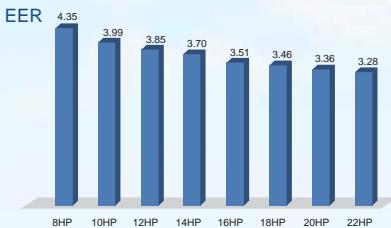
Indoor unit silent mode

- According to users' needs real time or the room temperature, users can set the SILENT MODE through the indoor wired controller KJR-29B (optional). The minimum noise degree is 22.5dB(A) (for the 1.5kW compact four-way cassette).

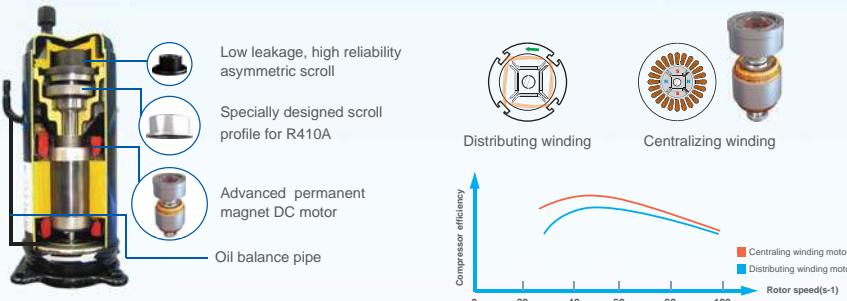
High Efficiency

V5 X Series achieves the industry's top class energy efficiency of cooling and heating by utilizing DC compressor control, DC Fan motor, and improved performance heat exchanger.

High EER and COP values

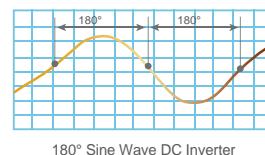
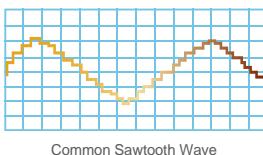


High efficiency DC inverter compressor



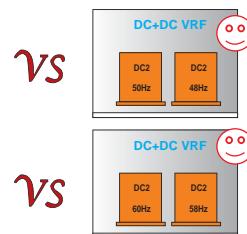
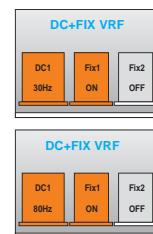
Smooth 180° sine wave DC inverter

Smooth the rotation of the compressor motor, improve the compressor operation efficiency sharply.
Effectively control the harmonic current and electromagnetic noise, and fully pass the international EMC test.



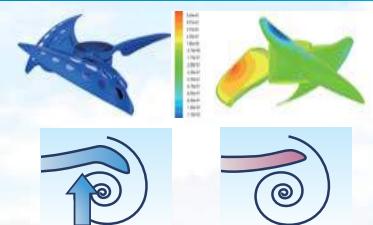
All DC inverter compressor, auto energy allocation

Thanks to the all DC inverter compressors technology, the running unit's output will automatically adjust according to the real time load demands. Units are always running at 40-70Hz which is the most efficient range. It makes units cost less energy and keep in good condition.



New profile fan blade

- A new CFD designed blade with concave suction surface changes the distribution of surface pressure.
- Through restraining the development of secondary currents, decreases the drop loss of wall air current.
- A new blade with sharp edges and a slight curve increases the airflow rate and lowers vibration and airflow resistance.



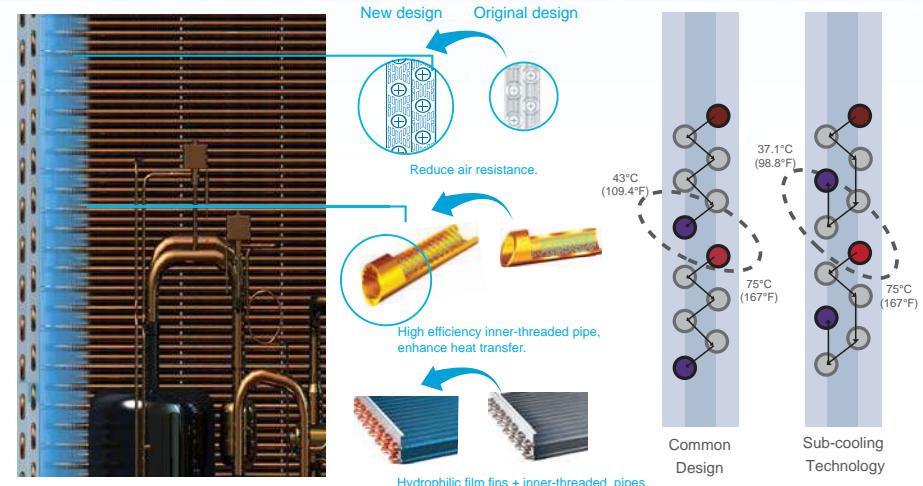
DC fan motor

According to the running load and pressure, it controls the speed of DC fan to achieve the minimum power consumption.

- Used across entire range of models (from 8 to 64 HP).
- Efficiency improvement up to 45% especially at low speed.
- Wide speed adjustment with 18 steps vetro control.



High performance heat exchanger

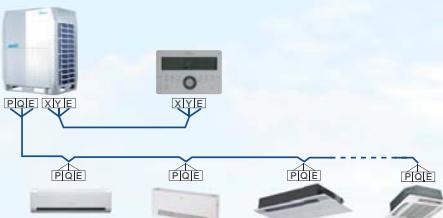


- The new designed window fins enlarge the heat-exchanging area, decrease the air resistance, save more power and enhance heat exchange performance.
- Hydrophilic film fins and inner-threaded copper pipes optimize heat exchange efficiency.
- When the outdoor temperature is 35°C(95°F), the refrigerant can be cooled down to 37.1°C(98.8°F), thus achieving high heat-exchanging efficiency with only 2.1°C(3.8°F) temperature difference.

Easier Installation and Service

Simple communication wiring

Centralized controller (CCM30) can connect from indoor side or outdoor side (XYE terminals) at will. With one group of wires, we can realize the network communication and system communication. Such simple wiring is more convenient for installation work at site.



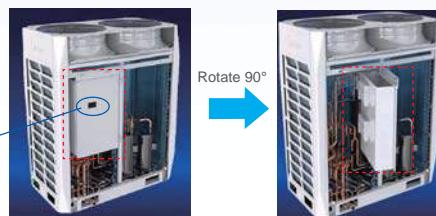
Auto-test operation and auto-addressing function

- Just simply press the test operation button, the unit will perform an automatic system check, including wiring, shutoff valves, and sensors. The results are returned automatically after the check is finished.
- Outdoor unit can distribute addresses for indoor unit automatically. Wireless and wired controllers can query and modify each indoor unit's address.



90° rotatable electric box

- The newly designed rotating control box is so excellent that it can rotate in a 90° angle. It is convenient for the inspection and maintenance of the pipeline system and greatly reduced the time of dismount the electric control box.
- Checking window for quick inspection of system status.



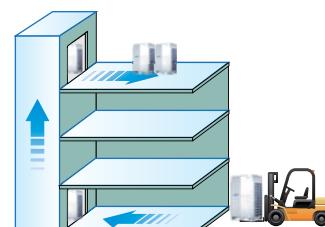
360° pipe connection

Pipes can be connected in multi directions: front, left, right and rear.



Compact size for saving space

Compact size design minimizes the installation footprint, and is easier for transportation. The units can even be transported through elevator or forklift at the jobsite.



Specifications

Outdoor units' lineup

Model	HP	No. of compressors	Outdoor unit combination								Max. Qty. of indoor unit	Capacity kW
			8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP		
MV5-X252W/V2GN1	8	1	1								13	25.2 27
MV5-X280W/V2GN1	10	1		1							16	28 31.5
MV5-X335W/V2GN1	12	1			1						20	33.5 37.5
MV5-X400W/V2GN1	14	2				1					23	40 45
MV5-X450W/V2GN1	16	2					1				26	45 50
MV5-X500W/V2GN1	18	2						1			29	50 56
MV5-X560W/V2GN1	20	2							1		33	56 63
MV5-X615W/V2GN1	22	2								1	36	61.5 69
MV5-X670W/V2GN1	24	2			2						39	67 75
MV5-X730W/V2GN1	26	3		1				1			43	73 81.5
MV5-X780W/V2GN1	28	3		1					1		46	78 87.5
MV5-X840W/V2GN1	30	3		1						1	50	84 94.5
MV5-X895W/V2GN1	32	3		1						1	53	89.5 100.5
MV5-X950W/V2GN1	34	3			1					1	56	95 106.5
MV5-X1000W/V2GN1	36	4					2				59	100 112
MV5-X1065W/V2GN1	38	4						1		1	63	106.5 119
MV5-X1115W/V2GN1	40	4							1	1	64	111.5 125
MV5-X1175W/V2GN1	42	4								1	1	117.5 132
MV5-X1230W/V2GN1	44	4								2	64	123 138
MV5-X1285W/V2GN1	46	4		2						1	64	128.5 144
MV5-X1345W/V2GN1	48	5		1			1			1	64	134.5 150.5
MV5-X1395W/V2GN1	50	5		1				1		1	64	139.5 156.5
MV5-X1455W/V2GN1	52	5		1						1	64	145.5 163.5
MV5-X1510W/V2GN1	54	5		1						2	64	151 169.5
MV5-X1565W/V2GN1	56	5			1					2	64	156.5 175.5
MV5-X1615W/V2GN1	58	6						2		1	64	161.5 181
MV5-X1680W/V2GN1	60	6							1		2	64 168
MV5-X1730W/V2GN1	62	6							1	2	64	173 194
MV5-X1790W/V2GN1	64	6								1	2	179 201
MV5-X1845W/V2GN1	66	6								3	64	184.5 207
MV5-X1900W/V2GN1	68	6		2						2	64	190 213
MV5-X1960W/V2GN1	70	7		1			1			2	64	196 219.5
MV5-X2010W/V2GN1	72	7		1				1		2	64	201 225.5
MV5-X2070W/V2GN1	74	7		1					1	2	64	207 232.5
MV5-X2125W/V2GN1	76	7		1						3	64	212.5 238.5
MV5-X2180W/V2GN1	78	7			1					3	64	218 244.5
MV5-X2230W/V2GN1	80	8						2		2	64	223 250
MV5-X2295W/V2GN1	82	8							1	3	64	229.5 257
MV5-X2345W/V2GN1	84	8							1	3	64	234.5 263
MV5-X2405W/V2GN1	86	8								1	3	240.5 270
MV5-X2460W/V2GN1	88	8								4	64	246 276

Notes:

- Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB
Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB
- Piping length: Interconnecting piping length is 7.5m, level difference is zero.
- The above combination models are factory-recommended models.

Outdoor specifications

Model	MV5-X252W/V2GN1	MV5-X280W/V2GN1	MV5-X335W/V2GN1	MV5-X400W/V2GN1		
Power source	V-Ph-Hz	380~415V 3N 50Hz/60Hz				
Cooling	Capacity	kW	25.2	28.0	33.5	40.0
		RT	7.2	8.0	9.5	11.4
		kBtu/h	86.0	95.5	114.3	136.5
		kcal/h	21,672	24,080	28,810	34,400
	Power input	kW	5.79	7.02	8.71	10.81
Heating	Capacity	kW	4.35	3.99	3.85	3.70
		RT	27.0	31.5	37.5	45.0
		kBtu/h	7.7	8.9	10.7	12.8
		kcal/h	92.1	107.5	128.0	153.5
	Power input	kW	23,220	27,090	32,250	38,700
Connectable indoor unit	COP	kW/kW	5.79	7.19	8.82	10.98
	Total capacity	%	50-130	50-130	50-130	50-130
	Max. quantity		13	16	20	23
	Sound pressure level	dB(A)	43~58	43~59	43~60	43~62
	Pipe connections	Liquid pipe	in.(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ1/2(Φ12.7)
Fan motor	Gas pipe	in.(mm)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)	Φ1(Φ25.4)	Φ1(Φ25.4)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
	Type	DC motor	DC motor	DC motor	DC motor	
	Quantity	1	1	1	2	
	Air flow rate	m3/h	10,800	10,800	10,800	14,000
DC inverter compressor	CFM	6,360	6,360	6,360	8,240	
	Motor output	W	465	465	465	290+230
	ESP	in.WG(Pa)	0~0.08(0~20) (default)			
		in.WG(Pa)	0.08~0.16(20~40) (customized)			
	Quantity	1	1	1	2	
Refrigerant	Capacity	kW	21.06	21.06	23.25	13.8x2
		kBtu/h	71.9	71.9	79.3	47.1x2
	Crankcase heater	W	27.6x2	27.6x2	27.6x2	27.6x4
	Oil type	FVC68D	FVC68D	FVC68D	FVC68D	
	Oil charge	gal.(ml)	0.132(500)	0.132(500)	0.132(500)	0.132(500)x2
Design pressure (High/Low)	Type	R410A	R410A	R410A	R410A	
	Factory charging	lbs.(kg)	20(9)	20(9)	24(11)	29(13)
Net dimension (WxHxD)	psi	640/380	640/380	640/380	640/380	
	MPa	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6	
Packing size (WxHxD)	inch	39x64.3/8x31-1/8			52-3/4x64.3/8x31-1/8	
	mm	990x1635x790			1340x1635x790	
Net weight	inch	41-1/2x71-1/16x33-5/8			55-3/8x71-1/16x33-5/8	
	mm	1055x1805x855			1405x1805x855	
Gross weight	lbs.(kg)	483(219)	483(219)	523(237)	655(297)	
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)			
	Heating	°F(°C)	-4~75.2(-20~24)			

Notes:

1. Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

2. Connecting piping diameter is based on the condition that the total equivalent liquid length is less than 90m. When the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

3. Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

4. The above data may be changed without notice for further improvement on quality and performance.

Outdoor specifications

Model	MV5-X450W/V2GN1	MV5-X500W/V2GN1	MV5-X560W/V2GN1	MV5-X615W/V2GN1		
Power source	V-Ph-Hz	380~415V 3N 50Hz/60Hz				
Cooling	Capacity	kW	45.0	50.0	56.0	61.5
		RT	12.8	14.3	16.0	17.6
		kBtu/h	153.5	170.6	191.1	209.8
		kcal/h	38,700	43,000	48,160	52,890
	Power input	kW	12.83	14.47	16.67	18.77
Heating	EER	kW/kW	3.51	3.46	3.36	3.28
	Capacity	kW	50.0	56.0	63.0	69.0
		RT	14.2	16.0	18.0	19.7
		kBtu/h	170.6	191.1	214.9	235.4
		kcal/h	43,000	48,160	54,180	59,340
Connectable indoor unit	Power input	kW	12.47	14.15	15.98	17.86
	COP	kW/kW	4.01	3.96	3.94	3.86
	Total capacity	%	50-130	50-130	50-130	50-130
	Max. quantity		26	29	33	36
	Sound pressure level	dB(A)	43~62	43~63	43~63	43~63
Pipe connections	Liquid pipe	in.(mm)	Φ1/2(Φ12.7)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)
	Gas pipe	in.(mm)	Φ1-1/8(Φ28.6)	Φ1-1/8(Φ28.6)	Φ1-1/8(Φ28.6)	Φ1-1/8(Φ28.6)
	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)
	Type	DC motor	DC motor	DC motor	DC motor	
	Quantity	2	2	2	2	
Fan motor	Air flow rate	m3/h	14,000	15,500	15,500	15,500
	CFM	8,240	9,120	9,120	9,120	9,120
	Motor output	W	290+230	420+350	440+350	440+350
	ESP	in.WG(Pa)	0~0.08(0~20) (default)			
		in.WG(Pa)	0.08~0.16(20~40) (customized)			
DC inverter compressor	Quantity	2	2	2	2	
	Capacity	kW	13.8x2	11.8x23.25	23.25x2	23.25x2
		kBtu/h	47.1x2	40.3+79.3	79.3x2	79.3x2
	Crankcase heater	W	27.6x4	27.6x4	27.6x4	27.6x4
	Oil type	FVC68D	FVC68D	FVC68D	FVC68D	
Refrigerant	Oil charge	gal.(ml)	0.132(500)x2	0.132(500)x2	0.132(500)x2	0.132(500)x2
	Type	R410A	R410A	R410A	R410A	
Design pressure (High/Low)	Factory charging	lbs.(kg)	29(13)	29(13)	35(16)	35(16)
	psi	640/380	640/380	640/380	640/380	
Net dimension (WxHxD)	MPa	4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6	
	inch	52-3/4x64-3/8x31-1/8				
Packing size (WxHxD)	mm	1340x1635x790				
	inch	55-3/8x71-1/16x33-5/8				
Net weight	inch	1405x1805x855				
	mm	655(297)				
Gross weight	lbs.(kg)	673(305)	750(340)	750(340)	750(340)	
Operating temperature range	Cooling	°F(°C)	23~118.4(-5~48)			
	Heating	°F(°C)	-4~75.2(-20~24)			

Notes:

1. Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.

Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

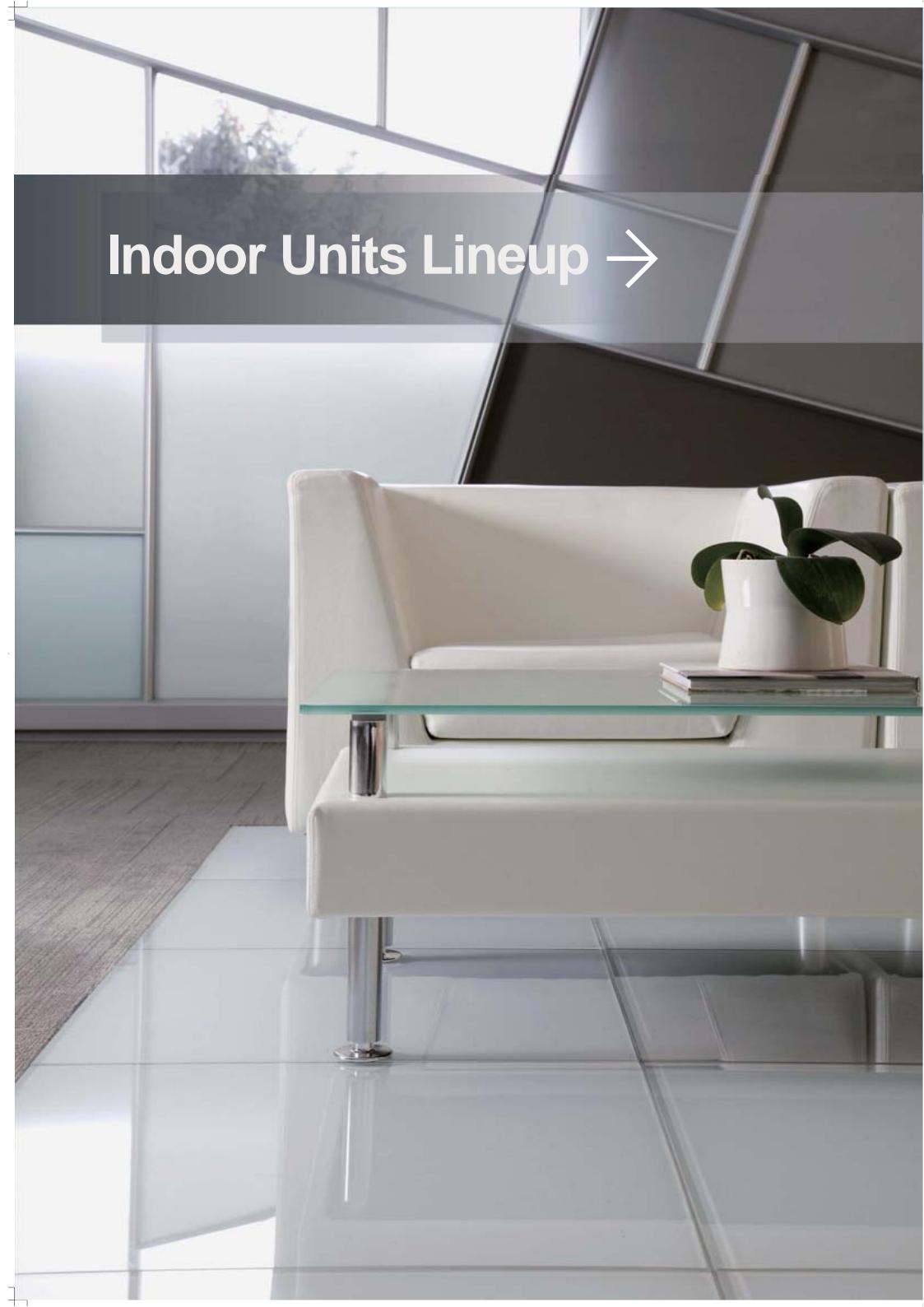
Piping length: Interconnecting piping length is 7.5m, level difference is zero.

2. Connecting piping diameter is based on the condition that the total equivalent liquid length is less than 90m. When the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

3. Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

4. The above data may be changed without notice for further improvement on quality and performance.

Indoor Units Lineup →



Indoor Units Lineup

- ▶ One-way Cassette
- ▶ Two-way Cassette
- ▶ Compact Four-way Cassette
- ▶ Four-way Cassette
- ▶ Low Static Pressure Duct
- ▶ Fresh Air Processing Unit
- ▶ High Static Pressure Duct
- ▶ Ceiling & Floor
- ▶ Floor Standing
- ▶ Console
- ▶ Wall-mounted

Indoor units lineup

Type	Model	15	18	22	28	36	45	56	71	80	90	100	112	125	140	160	200	250	280	400	450	560	
		kW	1.5	1.8	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	20.0	25.0	28.0	40.0	45.0	56.0
One-way Cassette	MDV-D XX Q1/N1-D				●	●	●		●														
	MDV-D XX Q1/N1-C								●	●	●												
Two-way Cassette	MDV-D XX Q2/N1					●	●				●	●	●	●									
Compact Four-way Cassette	MDV-D XX Q4/N1-A3		●			●	●				●	●											
Four-way Cassette	MDV-D XX Q4/N1-D						●				●	●	●	●	●	●	●	●	●	●	●	●	●
Low Static Pressure Duct	MDV-D XX T3/N1-C			●	●	●				●	●	●	●	●	●	●							
Concealed Duct Unit(A5 Type)	MDV-D XX T2/N1-BA5												●	●	●	●					●	●	●
	MDV-D XX T2/N1-DA5		●			●	●				●	●	●	●	●								
High Static Pressure Duct	MDV-D XX T1/N1-B																				●	●	
																					●	●	●
Ceiling & Floor	MDV-D XX DL/N1-C									●	●	●	●	●	●	●	●	●	●	●	●	●	●
Wall-mounted	MDV-D XX G/N1-S MDV-D XX G/DN1-S		●			●	●			●	●	●											
	MDV-D XX G/N1YB MDV-D XX G/DN1YB				●	●			●	●	●												
	MDV-D XX G-R3/N1Y											●	●	●	●								
	MDV-D XX G/N1Y-11D5				●	●			●	●	●	●	●	●	●								
Floor Standing	MDV-D XX Z/N1-F3B			●	●					●	●	●	●	●	●	●							
	MDV-D XX Z/N1-F4(F5)			●	●					●	●	●	●	●	●	●							
Console	MDV-D XX Z/DN1-B				●	●			●	●			●	●									
Fresh Air Processing Unit	MDV-D XX T1/N1-FA																		●	●			
																			●	●	●	●	

12 types and more than 100 models are available to meet varied customer requirements. 1.5kW model is only available for V4 plus and MINI VRF system.

● : Available for 50&60Hz.

● : Only available for 50Hz.

One-way Cassette



Only 153mm thickness

Compact design, ultra slim body with a minimum thickness of 153mm for model 18-36, especially suitable for narrow ceiling, such as in lobbies and small meeting rooms.



Standard built-in drain pump with 750mm pump head.

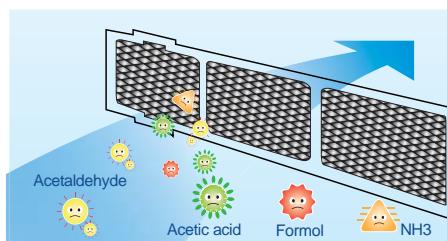


Fresh air, improved air quality

Reserved fresh air intake port for high quality air creates a comfortable and healthy environment.

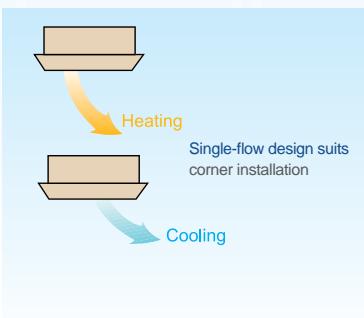


Special enzyme sterilization and filtering technologies filter bacteria, smog, and pollen. Provide a clean, healthy and natural air supply.



Auto swing

Auto swing mechanism guarantees even airflow distribution and a better room temperature balance.



50Hz Specifications

Model	MDV-D18Q1 /N1-D	MDV-D22Q1 /N1-D	MDV-D28Q1 /N1-D	MDV-D36Q1 /N1-D	MDV-D45Q1 /N1-C	MDV-D56Q1 /N1-C
Power supply	1-phase,220-240V,50Hz					
	kW	1.8	2.2	2.8	3.6	4.5
Cooling capacity	kcal/h	1500	1900	2400	3100	3900
	Btu/h	6100	7500	9600	12300	15400
Heating capacity	kW	2.2	2.6	3.2	4	5
	kcal/h	1900	2200	2800	3400	4300
	Btu/h	7500	8900	10900	13600	17100
Rated input	Cooling	41	41	41	41	80
	Heating	41	41	41	41	80
Rated current	Cooling	A	0.24	0.24	0.25	0.25
	Heating		0.24	0.24	0.25	0.25
Airflow rate(H/M/L)	m³/h	523/404/275	523/404/275	573/456/315	573/456/315	704/630/503
	CFM	308/238/162	308/238/162	337/268/185	337/268/185	414/370/296
Sound pressure level(H/M/L)	dB(A)	37/34/30	38/34/30	39/37/34	40/38/34	41/39/35
Refrigerant	Type	R410A				
	Control method	EXV				
Indoor Unit	Net dim.(WxHxD) mm	1054x169x425			1147x200x640	
	Gross dim.(WxHxD)	1155x245x490			1380x265x775	
	Net/Gross	kg	12.5/16	13/16.5		
Panel	Net dim.(WxHxD) mm	1180x36.5x465			1425x10x755	
	Gross dim.(WxHxD)	1232x107x517			1500x110x870	
	Net/Gross	kg	3.5/5.2	3.5/5.2		
Piping connections	L(flare) mm	Φ6.35	Φ6.35			Φ6.35
	G(flare) mm	Φ12.7	Φ12.7			Φ12.7
	Drain piping mm	OD Φ25	OD Φ25			OD Φ25
Standard Controller	Wireless remote controller RM05/BG(T)E-A/E					

Indoor units lineup

60Hz Specifications

Model	MDV-D18Q1 /N1-D	MDV-D22Q1 /N1-D	MDV-D28Q1 /N1-D	MDV-D36Q1 /N1-D	MDV-D45Q1 /N1-C	MDV-D56Q1 /N1-C
Power supply	1-phase,208-230V,60Hz					
	kW	1.8	2.2	2.8	3.6	4.5
Cooling capacity	kcal/h	1500	1900	2400	3100	3900
	Btu/h	6100	7500	9600	12300	15400
Heating capacity	kW	2.2	2.6	3.2	4	5
	kcal/h	1900	2200	2800	3400	4300
	Btu/h	7500	8900	10900	13600	17100
Rated input	Cooling	A	0.24	0.24	0.25	0.25
	Heating		0.24	0.24	0.25	0.25
Rated current	Cooling		0.24	0.24	0.25	0.25
	Heating		0.24	0.24	0.25	0.25
Airflow rate (H/M/L)	m³/h	523/404/275	523/404/275	573/456/315	573/456/315	704/630/503
	CFM	308/238/162	308/238/162	337/268/185	337/268/185	414/370/296
Sound pressure level(H/M/L)	dB(A)	37/34/30	38/34/30	39/37/34	40/38/34	41/39/35
Refrigerant	Type	R410A				
	Control method	EXV				
Indoor Unit	Net dim.(WxHxD) in.(mm)	41-1/2x6-21/32x16-47/64(1054x169x425)			45-5/32x/-1/8x25-13/64 (1147x200x640)	
	Gross dim.(WxHxD)	45-15/32x9-41/64x19-19/64(1155x245x490)			54-21/32x10x27-33/64 (1380x265x775)	
	Net/Gross	lbs.(kg)	27.8/35.3(12.5/16)	28.8/36.4(13/16.5)		
Panel	Net dim.(WxHxD) in.(mm)	46-29/64x1-7/16x18-5/16 (1180x36.5x465)			56-7/64x25/64x9-23/32 (1425x10x755)	
	Gross dim.(WxHxD)	48-1/2x4-7/32x20-23/64 (1232x107x517)			59-1/16x4-21/64x34-1/4 (1500x110x870)	
	Net/Gross	lbs.(kg)	7.7/11.5(3.5/5.2)	7.7/11.5(3.5/5.2)		
Piping connections	L(flare) in.(mm)	1/4 (Φ6.35)	1/4(Φ6.35)			3/8(Φ9.53)
	G(flare) in.(mm)	1/2(Φ12.7)	1/2(Φ12.7)			5/8(Φ15.9)
	Drain piping in.(mm)	OD 63/64(Φ25)	OD 63/64(Φ25)			OD 63/64(Φ25)
Standard Controller	Wireless remote controller (RM05/BG(T)E-A)					

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Notes:
 1. Nominal cooling capacities are based on the following conditions: return air temp.: 80.6°F(27°C)DB,66.2°F(19°C)WB, and outdoor temp.: 95°F(35°C)DB, equivalent ref. piping: 26.25ft. (8m) (horizontal)
 2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB, 42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal)
 3. Sound Level is measured 4.59ft.(1.4m) below the unit

Two-way Cassette



- Auto Restart
- Fresh Air
- Auto Addressing
- Cleanable Panel
- Follow Me
- Anti-Cold Air Function
- LED Display
- Built-in Drain Pump

Quiet operation

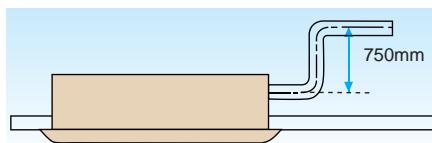
Optimized airflow duct with low resistance greatly reduces noise, minimum down to 24dB(A).

Stylish design and slim body

Thanks to the stylish appearance and slim body, the unit suits any room's decor and ambience. At only 300mm high, the unit requires only a small suspended ceiling space. Installation has no height limitations, which makes overall design features much more flexible.



Standard built-in drain pump with 750mm pump head (higher pump head can be customized).



Flat-type suction grille design greatly simplifies maintenance work.

High airflow

High airflow for high ceiling application guarantees comfort in large space. It makes every person in the room get even distribution of airflow and temperature.



50Hz Specifications

Model		MDV-D22Q2/N1	MDV-D28Q2/N1	MDV-D36Q2/N1	MDV-D45Q2/N1	MDV-D56Q2/N1	MDV-D71Q2/N1	
Power supply		1-phase, 220-240V, 50Hz						
	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	
	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
Heating capacity		kW	2.6	3.2	4.0	5.0	6.3	
	kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	
	Btu/h	8,900	10,900	13,600	17,100	21,500	27,300	
Power input	Cooling	W	57	57	60	92	108	
	Heating		57	57	60	92	108	
Rated current	Cooling	A	0.35	0.45	0.45	0.55	0.55	
	Heating		0.35	0.45	0.45	0.55	0.75	
Airflow rate(H/M/L)	m³/h	654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1,200/1,000/770	
	CFM	385/312/241	385/312/241	427/348/270	500/394/324	577/471/394	706/589/453	
Sound pressure level(H/M/L)	dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34	
Refrigerant		R410A						
Control method		EXV						
Body	Net dim.(WxHxD)	mm	1,172x299x591	1,172x299x591	1,172x299x591	1,172x299x591	1,172x299x591	
	Gross dim.(WxHxD)	mm	1,355x400x675	1,355x400x675	1,355x400x675	1,355x400x675	1,355x400x675	
	Net/gross	kg	34/42.5	34/42.5	34/42.5	36.5/45	36.5/45	
Panel	Net dim.(WxHxD)	mm	1,430x53x680	1,430x53x680	1,430x53x680	1,430x53x680	1,430x53x680	
	Gross dim.(WxHxD)	mm	1,525x130x765	1,525x130x765	1,525x130x765	1,525x130x765	1,525x130x765	
	Net/gross	kg	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15	
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	
	Drain piping	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32	
Standard Controller	-		Wireless remote controller(RM05/BG(T)E-A)					

Indoor units lineup

60Hz Specifications

Model		MDV-D22Q2/VN1	MDV-D28Q2/VN1	MDV-D36Q2/VN1	MDV-D45Q2/VN1	MDV-D56Q2/VN1	MDV-D71Q2/VN1	
Power supply		1-phase, 208-230V, 60Hz						
	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	
	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
Heating capacity		kW	2.6	3.2	4	5	6.3	
	kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	
	Btu/h	8,900	10,900	13,600	17,100	21,500	27,300	
Power input	Cooling	W	78	78	83	115	133	
	Heating		78	78	83	115	133	
Rated current	Cooling	A	0.35	0.45	0.45	0.55	0.55	
	Heating		0.35	0.45	0.45	0.55	0.75	
Airflow rate(H/M/L)	m³/h	674/509/381	674/509/381	740/577/435	878/689/561	941/776/654	1,236/1,110/864	
	CFM	397/300/224	397/300/224	436/340/256	517/406/330	554/457/385	727/653/509	
Sound pressure level(H/M/L)	dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34	
Refrigerant		R410A						
Control method		EXV						
Body	Net dim.(WxHxD)	in.(mm)	46.9/32x11.49/64x23-17/64(1172x299x591)					
	Gross dim.(WxHxD)	in.(mm)	53.11/32x15.3/4x26-37/64(1355x400x675)					
	Net/gross	lbs.(kg)	75/94(34/42.5)	75/94(34/42.5)	75/94(34/42.5)	80.5/99(36.5/45)	80.5/99(36.5/45)	80.5/99.3(36.5/45)
Panel	Net dim.(WxHxD)	in.(mm)	56.19/64x2.3/32x26-49/64(1430x53x680)					
	Gross dim.(WxHxD)	in.(mm)	60.3/64x5.1/8x30-1/8(1525x130x765)					
	Net/gross	lbs.(kg)	23/33(10.5/15)	23/33(10.5/15)	23/33(10.5/15)	23/33(10.5/15)	23/33(10.5/15)	23/33(10.5/15)
Piping connections	L(flare)	in.(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ3/8(9.53)	Φ3/8(9.53)
	G(flare)	in.(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ5/8(15.9)	Φ5/8(15.9)
	Drain piping	in.(mm)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)
Standard Controller	-		Wireless remote controller (RM05/BG(T)E-A)					

Notes:

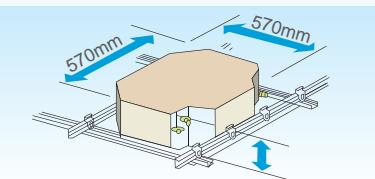
- Nominal cooling capacities are based on the following conditions: return air temp.: 80.6°F(27°C)DB, 66.2°F(19°C)WB, and outdoor temp.: 95°F(35°C)DB, equivalent ref. piping: 26.25ft. (8m) (horizontal)
- Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(6°C)DB, 42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal)
- Sound Level is measured 4.59ft. (1.4m) below the unit

Compact Four-way Cassette



- Auto Restart
- Fresh Air
- Auto Addressing
- Cleanable Panel
- Follow Me
- Anti-Cold Air Function
- Built-in Drain Pump
- LED Display
- Super High Air Flow

Compact design, easy installation and maintenance



Extremely compact casing suits any room's decor and requires little space for installation on a low ceiling. Due to the compact body and light weight, all models can be installed without a hoist.

Quiet operation, gentle air supply



Streamline plate ensures quiet operation
Advanced 3-D spiral fan design reduces air resistance and operation noise.

360°Airflow outlet



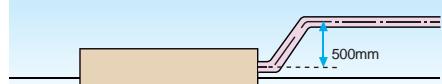
360° air outlet provides strong air flow circulation to cool or heat every corner of a room and evenly distribute temperature.

Four-way uniform airflow



Four air discharge ports provide strong air flow circulation to cool or heat every corner of a room and evenly distribute temperature. High airflow mode can maximize the conditioning effect in rooms that are over 3m high.

Lift pump



Drain pump with a 500mm pump head is fitted as standard; maximum 600mm pump head is available.

50Hz Specifications

Model		MDV-D15Q4/N1-A3	MDV-D22Q4/N1-A3	MDV-D28Q4/N1-A3	MDV-D36Q4/N1-A3	MDV-D45Q4/N1-A3
Power supply		1-phase,220-240V,50Hz				
Cooling capacity	kW	1.5	2.2	2.8	3.6	4.5
	kcal/h	1300	1900	2400	3100	3900
	Btu/h	5100	7500	9600	12300	15400
Heating capacity	kW	1.7	2.4	3.2	4	5
	kcal/h	1500	2100	2700	3400	4300
	Btu/h	5800	8200	10900	13600	17100
Rated input	Cooling	W	36	50	56	56
	Heating		36	50	56	56
Rated current	Cooling	A	0.22	0.22	0.25	0.25
	Heating		0.22	0.22	0.25	0.25
Airflow rate(SH/H/M/L)		m³/h	501/435/283/208	522/414/313/238	522/414/313/238	610/521/409/314
		CFM	295/256/167/98	307/244/184/140	307/244/184/140	359/307/241/185
Sound pressure level(H/M/L)		dB(A)	34.9/32.5/22.5	35.8/33.4/23.4	35.8/33.4/23.4	41.5/35.6/28.8
Refrigerant		Type	R410A			
		Control method	EXV			
Indoor Unit	Net dim.(WxHxD)	mm	570x260x570	570x260x570	570x260x570	570x260x570
	Gross dim.(WxHxD)		675x285x675	675x285x675	675x285x675	675x285x675
	Net/Gross	kg	16/19.5	16/20	16/20	18/22
Panel	Net dim.(WxHxD)	mm	647x50x647	647x50x647	647x50x647	647x50x647
	Gross dim.(WxHxD)		715x123x715	715x123x715	715x123x715	715x123x715
	Net/Gross	kg	2.4/4.5	2.4/4.5	2.4/4.5	2.4/4.5
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
	Drain piping	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard Controller		Wireless remote controller (RM05/BG(T)E-A)				

Indoor units lineup

60Hz Specifications

Model		MDV-D22Q4/VN1-A3	MDV-D28Q4/VN1-A3	MDV-D36Q4/VN1-A3	MDV-D45Q4/VN1-A3	
Power supply		1-phase, 208-230V 60Hz				
Cooling capacity	kW	2.2	2.8	3.6	4.5	
	kcal/h	1,900	2,400	3,100	3,900	
	Btu/h	7,500	9,600	12,300	15,400	
Heating capacity	kW	2.4	3.2	4	5	
	kcal/h	2,100	2,800	3,400	4,300	
	Btu/h	8,200	10,900	13,600	17,100	
Power input	Cooling	W	51	52	58	
	Heating		43	44	50	
Rated current	Cooling	A	0.175	0.175	0.21	
	Heating		0.175	0.175	0.21	
Airflow rate(SH/H/M/L)		m³/h	532/397/292/215	539/408/310/231	632/496/359/263	
		CFM	313/234/172/127	317/240/182/136	372/292/211/155	
Sound pressure level(H/M/L)		dB(A)	35.8/33.4/23.4	35.8/33.4/23.4	41.5/35.6/28.8	
Refrigerant		Type	R410A			
		Control method	EXV			
Body	Net dim.(WxHxD)	in.(mm)	22-7/16x10-15/64x22-7/16(570x260x570)			
	Gross dim.(WxHxD)		26-9/16x11-7/32x26-9/16(675x285x675)			
	Net/gross	lbs.(kg)	35.3/44.1/(16/20)	35.3/44.1/(16/20)	39.7/48.5/(18/22)	39.7/48.5/(18/22)
Panel	Net dim.(WxHxD)	in.(mm)	25-15/32x1-31/32x25-15/2(647x50x647)			
	Gross dim.(WxHxD)		28-5/32x4-27/32x28-5/32 (715x123x715)			
	Net/gross	lbs.(kg)	6.6/11(3/5)	6.6/11(3/5)	6.6/11(3/5)	6.6/11(3/5)
Piping connections	L(flare)	in.(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)
	G(flare)	in.(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)
	Drain piping	in.(mm)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)
Standard Controller		Wireless remote controller (RM05/BG(T)E-A)				

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Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 80.6°F(27°C)DB, 66.2°F(19°C)WB, and outdoor temp.: 95°F(35°C)DB, equivalent ref. piping: 26.25ft. (8m) (horizontal)
- Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(6°C)DB, 42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal)
- Sound Level is measured 4.59ft. (1.4m) below the unit

Four-way Cassette



- | | | | |
|--|---------------------|--|------------------------|
| | Auto Restart | | Fresh Air |
| | Auto Addressing | | Cleanable Panel |
| | Follow Me | | Anti-Cold Air Function |
| | Built-in Drain Pump | | LED Display |
| | Super High Air Flow | | |

Quiet operation, gentle air supply

- Streamline plate ensures quiet operation.
- Advanced 3-D spiral fan design reduces air resistance and operation noise.



Easy troubleshooting

By adding digital tube on the display board, Error Codes can be displayed directly for troubleshooting.



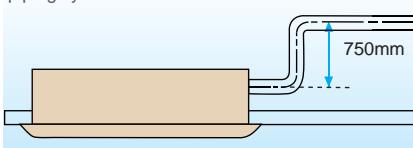
360°Airflow outlet



360° air outlet provides strong air flow circulation to cool or heat every corner of a room and evenly distribute temperature.

High lift pump

Drain pump can take condenser water up to 750mm, which simplifies installation of the drain piping system.



Four-stage fan speed



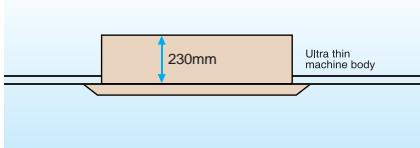
Four-way uniform air flow

Four air discharge ports provide strong air flow circulation to cool or heat every corner of a room and evenly distribute temperature. High airflow mode can maximize the conditioning effect in rooms that are over 3m high.

Reserved multi-function ports



Ultra-thin machine body (minimum height 230mm) simplifies installation and maintenance.



50Hz Specifications

Model		MDV-D28Q4/N1-D	MDV-D36Q4/N1-D	MDV-D45Q4/N1-D	MDV-D56Q4/N1-D	MDV-D71Q4/N1-D
Power supply		1-phase, 220-240V, 50Hz				
Cooling capacity	kW	2.8	3.6	4.5	5.6	7.1
	kcal/h	2,400	3,100	3,900	4,800	6,100
	Btu/h	9,600	12,300	15,400	19,100	24,200
Heating capacity	kW	3.2	4.0	5.0	6.3	8.0
	kcal/h	2,800	3,400	4,300	5,400	6,900
	Btu/h	10,900	13,600	17,100	21,500	27,300
Power input	Cooling	65	65	75	75	82
	Heating	65	65	75	75	82
Rated current	Cooling	A	0.4	0.4	0.4	0.4
	Heating		0.4	0.4	0.4	0.4
Airflow rate(SH/H/M/L)	m³/h	1,187/847/766/640	1,187/847/766/640	1,121/864/755/658	1,121/864/755/658	1,385/1,157/955/749
	CFM	699/498/450/376	699/498/450/376	660/508/444/387	660/508/444/387	815/680/562/440
Sound pressure level(H/M/L)	dBA	42/38/35	42/38/35	42/38/35	42/38/35	45/42/39
	Type	R410A				
Refrigerant	Control method	EXV				
	Body	Net dim.(WxHxD) mm	904x230x840	904x230x840	904x230x840	904x230x840
Panel	Gross dim.(WxHxD) mm	955x260x955	955x260x955	955x260x955	955x260x955	955x260x955
	Net/gross kg	24/28	24/28	26/30	26/30	26/30
Piping connections	Net dim.(WxHxD) mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Gross dim.(WxHxD) mm	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035
Standard Controller	Net/gross kg	6/9	6/9	6/9	6/9	6/9
	L(flare) mm	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53
Standard Controller	G(flare) mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Drain piping mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard Controller		Wireless remote controller(RM05/BG(T)-E-A)				

Model		MDV-D80Q4/N1-D	MDV-D90Q4/N1-D	MDV-D100Q4/N1-D	MDV-D110Q4/N1-D	MDV-D140Q4/N1-D
Power supply		1-phase, 220-240V, 50Hz				
Cooling capacity	kW	8.0	9.0	10.0	11.2	14.0
	kcal/h	6,900	7,700	8,600	9,600	12,000
	Btu/h	27,300	30,700	34,100	38,200	47,800
Heating capacity	kW	9.0	10.0	11.1	12.5	15.0
	kcal/h	7,700	8,600	9,500	10,800	12,900
	Btu/h	30,700	34,100	37,900	42,700	51,200
Power input	Cooling	97	160	160	160	170
	Heating	97	160	160	160	170
Rated current	Cooling	A	0.5	0.7	0.7	0.8
	Heating		0.5	0.7	0.7	0.8
Airflow rate(SH/H/M/L)	m³/h	1,431/1,236/973/729	1,758/1,540/1,300/1,120	1,758/1,540/1,300/1,120	1,758/1,540/1,300/1,120	1,843/1,800/1,500/1,280
	CFM	842/727/572/429	1,035/906/765/659	1,035/906/765/659	1,035/906/765/659	1,085/1,059/883/753
Sound pressure level(H/M/L)	dBA	45/42/39	48/45/43	48/45/43	48/45/43	50/47/44
	Type	R410A				
Refrigerant	Control method	EXV				
	Body	Net dim.(WxHxD) mm	904x230x840	904x300x840	904x300x840	904x300x840
Panel	Gross dim.(WxHxD) mm	955x260x955	955x330x955	955x330x955	955x330x955	955x330x955
	Net/gross kg	26/30	32/37	32/37	32/37	32/37
Piping connections	Net dim.(WxHxD) mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Gross dim.(WxHxD) mm	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035
Standard Controller	Net/gross kg	6/9	6/9	6/9	6/9	6/9
	L(flare) mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Standard Controller	G(flare) mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Drain piping mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard Controller		Wireless remote controller(RM05/BG(T)-E-A)				

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temperature.: 27°CDB,19°CWB,outdoor temperature.:35°CDB, equivalent ref. Piping: 8m(horizontal)

2. Nominal heating capacities are based on the following conditions: return air temperature.: 20°CDB,outdoor temperature.: 7°CDB, 6°CWB, equivalent ref. Piping: 8m(horizontal)

3. Sound level is measured at 1.4m below the unit.

60Hz Specifications

Model		MDV-D28Q4/N1-D	MDV-D36Q4/N1-D	MDV-D45Q4/N1-D	MDV-D56Q4/N1-D	MDV-D71Q4/N1-D
Power supply		1-phase, 220-240V, 60Hz				
Cooling capacity	kW	2.8	3.6	4.5	5.6	7.1
	kcal/h	2,400	3,100	3,900	4,800	6,100
	Btu/h	9,600	12,300	15,400	19,100	24,200
Heating capacity	kW	3.2	4	5	6.3	8
	kcal/h	2,800	3,400	4,300	5,400	6,900
	Btu/h	10,900	13,600	17,100	21,500	27,300
Power input	Cooling	W	90	90	90	115
	Heating		90	90	90	115
Rated current	Cooling	A	0.4	0.4	0.4	0.5
	Heating		0.4	0.4	0.4	0.5
Airflow rate(SH/H/M/L)		m³/h	1,155/847/766/640	1,155/847/766/640	1,207/864/755/658	1,207/864/755/658
		CFM	680/499/451/377	680/499/451/377	710/509/444/387	710/509/444/387
Sound pressure level(H/M/L)		dB(A)	42/38/35	42/38/35	42/38/35	45/42/39
Refrigerant		Type	R410A			
		Control method	EXV			
Body	Net dim.(WxHxD)	in.(mm)	35-19/32x9-1/16x33-5/64(904x230x840)			
	Gross dim.(WxHxD)		37-19/32x10-15/64x37-19/32(955x260x955)			
Net/gross		lbs.(kg)	53 /61.7(24/28)	53 /61.7(24/28)	57.3 /66.2(26/30)	57.3 /66.2(26/30)
Panel	Net dim.(WxHxD)	in.(mm)	37-13/32x2-9/64x37-13/32(950x54.5x950)			
	Gross dim.(WxHxD)		40-3/4x3-35/64x40-3/4(1,035x90x1,035)			
Net/gross		lbs.(kg)	11.0/19.9(5/9)	11.0/19.9(5/9)	11.0/19.9(5/9)	11.0/19.9(5/9)
Piping connections	L(flare)	in.(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ3/8(9.53)	Φ3/8(9.53)
	G(flare)	in.(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ5/8(15.9)	Φ5/8(15.9)
Drain piping		in.(mm)	OD 1-17/64(Φ32)			
Standard Controller		-	Wireless remote controller (RM05/BG(T)E-A)			

Model		MDV-D80Q4/N1-D	MDV-D90Q4/N1-D	MDV-D100Q4/N1-D	MDV-D112Q4/N1-D	MDV-D140Q4/N1-D
Power supply		1-phase, 220-240V, 60Hz				
Cooling capacity	kW	8	9	10	11.2	14
	kcal/h	6,900	7,700	8,600	9,600	12,000
	Btu/h	27,300	30,700	34,100	38,200	47,800
Heating capacity	kW	9	10	11.1	12.5	15
	kcal/h	7,700	8,600	9,500	10,800	12,900
	Btu/h	30,700	34,100	37,900	42,700	51,200
Power input	Cooling	W	115	160	160	180
	Heating		115	160	160	180
Rated current	Cooling	A	0.5	0.7	0.7	0.8
	Heating		0.5	0.7	0.7	0.8
Airflow rate(SH/H/M/L)		m³/h	1,357/1,236/973/729	1,795/1,590/1,300/1,090	1,795/1,590/1,300/1,090	1,795/1,590/1,300/1,090
		CFM	799/727/573/429	1,057/936/765/642	1,057/936/765/642	1,057/936/765/642
Sound pressure level(H/M/L)		dB(A)	45/42/39	48/45/43	48/45/43	48/45/43
Refrigerant		Type	R410A			
		Control method	EXV			
Body	Net dim.(WxHxD)	in.(mm)	35-19/32x9-1/16x33-5/64(904x230x840)	35-19/32x11-13/16x33-5/64(904x300x840)		
	Gross dim.(WxHxD)		37-19/32x10-15/64x37-19/32(955x260x955)	37-19/32x11-13/16x37-19/32(955x330x955)		
	Net/gross	lbs.(kg)	57.3 /66(26/30)	70.5/81.6(32/37)	70.5/81.6(32/37)	70.5/81.6(32/37)
Panel	Net dim.(WxHxD)	in.(mm)	37-13/32x2-9/64x37-13/32(950x54.5x950)			
	Gross dim.(WxHxD)		40-3/4x3-35/64x40-3/4(1,035x90x1,035)			
Net/gross		lbs.(kg)	11.0/17.6(5/8)	11.0/17.6(5/8)	11.0/17.6(5/8)	11.0/17.6(5/8)
Piping connections	L(flare)	in.(mm)	Φ3/8(9.53)	Φ3/8(9.53)	Φ3/8(9.53)	Φ3/8(9.53)
	G(flare)	in.(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
Drain piping		in.(mm)	OD 1-17/64(Φ32)			
Standard Controller		-	Wireless remote controller (RM05/BG(T)E-A)			

1. Nominal cooling capacities are based on the following conditions: return air temperature : 80.6°F(27°C)DB, 66.2°F(19°C)WB, and outdoor temperature: 95°F(35°C)DB, equivalent ref. piping: 26.25ft. (8m) (horizontal)
 2. Nominal heating capacities are based on the following conditions: return air temperature: 68°F(20°C)DB, outdoor temperature: 44.6°F(7°C)DB, 42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal)
 3. Sound Level is measured 4.59ft. (1.4m) below the unit

Low Static Pressure Duct



Low sound level

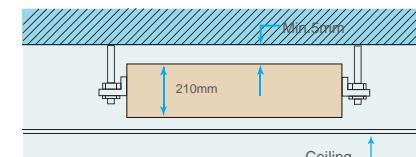


Utilizes the centrifugal type blower, provides a minimum noise level of 24dB (A), an excellent choice for hotels and other sound-sensitive places.

V shape evaporator-- good for heat exchanging

V shape evaporator design enhances heat exchanging efficiency about 22%.

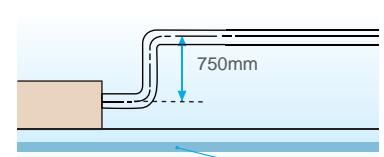
Compact design



Uniform 210mm in height, compact design for easy locate where space ceiling is limited,

The whole body adopts fireproof plastic material, the minimum weight is 14kg.

Options



A drain pump with 750mm pumphead is an optional accessory.

50Hz Specifications

Model	MDV-D18T3/N1-C	MDV-D22T3/N1-C	MDV-D28T3/N1-C	MDV-D36T3/N1-C	MDV-D45T3/N1-C	MDV-D56T3/N1-C	MDV-D71T3/N1-C		
Power supply									
		220-240V-1Ph-50Hz							
Cooling capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6		
	kcal/h	1500	1900	2400	3100	3900	4800		
	Btu/h	6100	7500	9600	12300	15400	19100		
Heating capacity	kW	2.2	2.6	3.2	4	5	6.3		
	kcal/h	1900	2200	2800	3400	3900	5400		
	Btu/h	7500	8900	10900	13600	17100	21500		
Rated input	Cooling	W	59	59	59	65	105		
	Heating		59	59	59	65	105		
Rated current	Cooling	A	0.31	0.31	0.31	0.36	0.36		
	Heating		0.31	0.31	0.31	0.36	0.36		
Airflow rate(SH/H/M/L)	m³/h	606(30pa)/578/512/409		646(30pa) /617/551/441	803(pa)/824/690/609		1207(30pa) /1060/970/811		
	CFM	357/340/301/241		380/363/324/260	473/485/406/358		710/624/571/477		
External Static Pressure	Pa	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)		
Sound pressure level (H/M/L)	dB(A)	35/27/24	35/27/24	35/27/24	38/32/28	39/32/29	39/32/29		
Refrigerant type	Type	R410A	R410A	R410A	R410A	R410A	R410A		
	Control type	EXV	EXV	EXV	EXV	EXV	EXV		
Indoor unit	Dimension (WxHxD) Packing (WxHxD) Net(Gross) weight	mm	740x210x470	740x210x470	740x210x470	740x210x470	960x210x470	960x210x470	1180x210x470
		mm	910x230x510	910x230x510	910x230x510	910x230x510	1130x230x510	1130x230x510	1350x230x510
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Drain piping	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
Standard Controller	Wireless remote controller (RM05/BG(T)E-A)								

60Hz Specifications

Model	MDV-D18T3/VN1-C	MDV-D22T3/VN1-C	MDV-D28T3/VN1-C	MDV-D36T3/VN1-C	MDV-D45T3/VN1-C	MDV-D56T3/VN1-C	MDV-D71T3/VN1-C		
Power supply									
	208-230V-1Ph-60Hz	208-230V-1Ph-60Hz	208-230V-1Ph-60Hz	208-230V-1Ph-60Hz	208-230V-1Ph-60Hz	208-230V-1Ph-60Hz	208-230V-1Ph-60Hz		
Cooling capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6		
	kcal/h	1500	1900	2400	3100	3900	4800		
	Btu/h	6100	7500	9600	12300	15400	19100		
Heating capacity	kW	2.2	2.6	3.2	4	5	6.3		
	kcal/h	1900	2200	2800	3400	3900	5400		
	Btu/h	7500	8900	10900	13600	17100	21500		
Rated input	Cooling	W	59	59	59	65	105		
	Heating		59	59	59	65	105		
Rated current	Cooling	A	0.26	0.26	0.26	0.3	0.5		
	Heating		0.26	0.26	0.26	0.3	0.5		
Airflow rate(SH/H/M/L)	m³/h	606(30pa)/578/512/409		606(30pa)/578/512/409	606(30pa)/578/512/409	646(30pa) /617/551/441	803(pa)/824/690/609	1207(30pa) /1060/970/811	
	CFM	357/340/301/241		357/340/301/241	380/363/324/260	473/485/406/358	473/485/406/358	710/624/571/477	
External Static Pressure	Pa	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)		
Sound pressure level (H/M/L)	dB(A)	35/27/24	35/27/24	35/27/24	38/32/28	39/32/29	39/32/29		
Refrigerant type	Type	R410A	R410A	R410A	R410A	R410A	R410A		
	Control type	EXV	EXV	EXV	EXV	EXV	EXV		
Indoor unit	Dimension (WxHxD) Packing (WxHxD) Net(Gross) weight	in.(mm)	29-9/64x8-17/64x18-1/2(740x210x470)		37-51/64x8-17/64x18-1/2 (960x210x470)	46-29/64x8-17/64x18-1/2 (1180x210x470)			
		in.(mm)	35-53/64x9-1/16x20-5/64(910x230x510)		44-31/64x9-1/16x20-5/64 (1130x230x510)	53-53/32x9-1/16x20-5/64 (1350x230x510)			
Piping connections	L(flare)	in.(mm)	1/4(Φ6.35)	1/4(Φ6.35)	1/4(Φ6.35)	1/4(Φ6.35)	3/8(Φ9.53)		
	G(flare)	in.(mm)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	Φ12.7		
	Drain piping	in.(mm)	32.0/39.7(14.5/18)		39.7/49.6(18/22.5)	39.7/49.6(18/22.5)	49.6/58.5(22.5/26.5)		
Standard Controller	OD 63/64(Φ25)								
	Wireless remote controller (RM05/BG(T)E-A)								

Notes:

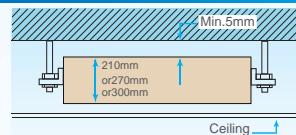
- Nominal cooling capacities are based on the following conditions: return air temp.: 27°CDB, 19°CWB, and outdoor temp.: 35°CDB, equivalent ref. piping: 8m (horizontal)
- Nominal heating capacities are based on the following conditions: return air temp.: 20°CDB, outdoor temp.: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)
- Sound level is measured at 1.4m below the air outlet.
- External static pressure is based on high speed indoor air flow.

Concealed Duct Unit (A5 Type)



- Auto Restart
- Fresh Air
- Follow Me
- Anti-Cold Air Function
- Built-in Drain Pump
- Wired Controller
- Auto Addressing
- Super High Air Flow
- Connectable To Duct

Compact size



Only 210mm (15~71 models) or 270mm (80 to 112 models) or 300mm (140 model) in height.

External static pressure

Four speed fan motor (Super high speed is optional)

Change the wiring connection from 'SH' to 'H' to change the ESP.

Convenient installation

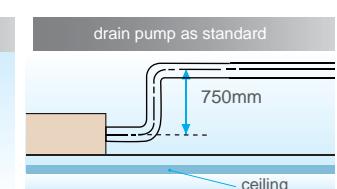
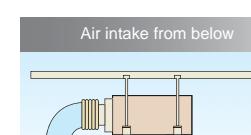
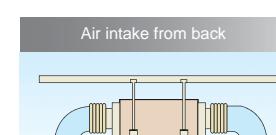
The EXV is fixed inside of the indoor unit.

Standard filter is housed in an aluminum frame, which is removable from the bottom in the downward direction.

Suction chamber is included as standard equipment.

Fresh air hole, air inlet/outlet flange are standard for easy duct connection.

A rear air inlet is standard and an inlet at the bottom is optional. Both use the same connectable duct.



Flexible control and easy maintenance

Standard wired remote controller KJR-29B1/BK-E.

The electrical control box can be removed 1m away from the unit for easy maintenance access. Customers need to request this service in advance for it is done at Midea CAC factory.

Standard functional ports are included such as Remote On/Off Dry contact switch and Alarm signal output (220V).

50Hz Specifications

Model		MDV-D15T2 /N1-DA5	MDV-D22T2 /N1-DA5	MDV-D28T2 /N1-DA5	MDV-D36T2 /N1-DA5	MDV-D45T2 /N1-DA5	MDV-D56T2 /N1-DA5
Power supply							
Cooling capacity	kW	1.5	2.2	2.8	3.6	4.5	5.6
	kcal/h	1290	1900	2400	3100	3900	4800
	Btu/h	5100	7500	9600	12300	15400	19100
Heating capacity	kW	1.7	2.6	3.2	4	5	6.3
	kcal/h	1500	2200	2800	3400	4300	5400
	Btu/h	5800	8900	10900	13600	17100	21500
Rated input	Cooling	W	56	57	57	61	98
	Heating		56	57	57	61	98
Rated current	Cooling	A	0.31	0.31	0.31	0.33	0.36
	Heating		0.31	0.31	0.31	0.33	0.36
Airflow rate(SH/H/M/L)		m³/h	588(30pa)/538/456/375		614(30pa)/597 /514/429	763(30pa)/811 /684/575	763(30pa)/811 /684/575
CFM			346/317/268/221		361/351/303/253	449/477/403/338	449/477/403/338
ESP(external static pressure)		Pa	10(10-30)	10(10-30)	10(10-30)	10(10-30)	10(10-30)
Sound pressure level(H/M/L)		dB(A)	35.8/34.6/31.4	36/35/32	37/35/32	38.6/37.5/33.8	39/37.9/34
Refrigerant		Type	R410A				
Control method			EXV				
Indoor Unit	Net dim.(WxHxD)	mm	740x210x500	740x210x500	740x210x500	740x210x500	960x210x500
	Gross dim.(WxHxD)	mm	870x285x525	870x285x525	870x285x525	870x285x525	1.115x285x525
	NetGross	kg	17.5/20.5	17.5/20	17.5/20	17.5/20	22.5/26
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Drain piping	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25

Standard Controller							
Wired controller KJR-29B1/BK-E (6 meters connection wire)							
Model							
MDV-D71T2/N1-DA5 MDV-D80T2/N1-BA5 MDV-D90T2/N1-BA5 MDV-D112T2/N1-BA5 MDV-D140T2/N1-BA5							
Power Supply							
220~240V-1Ph-50Hz							
Capacity	Cooling	kW	7.1	8	9	11.2	14
		kcal/h	6,100	6,900	7,700	9,600	12,000
	Heating	btu/h	24,200	27,300	30,700	38,200	47,800
Power (Cooling)	kW	8	9	10	12.5	15.5	
		kcal/h	6,900	7,700	8,600	10,800	13,300
	Btu/h	27,300	30,700	34,100	42,700	52,900	
Power (Heating)	Input	W	105	198	200	313	274
	Rated Current	A	0.47	1.0	1.0	1.8	1.55
Indoor air flow (SH/H/M/L)	Input	W	105	198	200	313	274
	Rated Current	A	0.47	1.0	1.0	1.8	1.55
m³/h		1127(30pa)/1029/934/781	1388(50pa)/1345/1165/1013	1388(50pa)/1345/1165/1013	1851(80pa)/1800/1556/1400	1745(100pa)/1905/1636/1400	
CFM		663/606/550/460	817/792/686/596	817/792/686/596	1,089/1,059/916/824	1,027/1121/963/824	
ESP (external static pressure)		Pa	10(10-30)	20(10-50)	20(10-50)	40(10-80)	40(10-100)
Sound pressure level(H/M/L)		dB(A)	41.4/39/35	45.4/39.8/37	45.4/39.8/37	48.0/41.9/38	47.7/43.2/39.0
Refrigerant		Type	R410A				
Control method			EXV				
Net dimension		WxHxD	mm	1,180x210x500	1,230x270x775	1,230x270x775	1,230x300x865
Packing dimension		WxHxD	mm	1,335x285x525	1,355x350x795	1,355x350x795	1,400x375x925
Net/Gross Weight		kg	28/31.5	38/46.5	40/48	40/48	49/58
Piping Connections	L(flare)	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	
	G(Flare)	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	
	Drain piping	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard Controller		-	Wired controller KJR-29B1/BK-E (6 meters connection wire)				

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature: 35°CDB, equivalent ref. piping: 8m (horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. piping: 8m (horizontal)
3. Sound level is measured at 1.4m below the air outlet.
4. External static pressure is based on high speed indoor air flow.
5. Specifications are subject to change without prior notice for product improvement.

60Hz Specifications

Model		MDV-D22T2 /VN1-DA5	MDV-D28T2 /VN1-DA5	MDV-D36T2 /VN1-DA5	MDV-D45T2 /VN1-DA5	MDV-D56T2 /VN1-DA5	MDV-D71T2 /VN1-DA5
Power supply							
1-phase,220-240V,50Hz							
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	kcal/h	1900	2400	3100	3900	4800	6100
	Btu/h	7500	9600	12300	15400	19100	24200
Heating capacity	kW	2.6	3.2	4.0	5.0	6.3	8.0
	kcal/h	2200	2800	3400	4300	5400	6900
	Btu/h	8200	10900	13600	17100	21500	27300
Rated input	Cooling	W	66	72	77	100	125
	Heating		66	72	77	100	125
Rated current	Cooling	A	0.24	0.24	0.28	0.48	0.6
	Heating		0.24	0.24	0.28	0.48	0.6
Airflow rate(SH/H/M/L)	m³/h	588(30pa)/538/456/375 /514/429	614(30pa)/597 /684/575	763(30pa)/811 /684/575	763(30pa)/811 /684/575	763(30pa)/811 /684/575	1127(30pa)/1029/934/781
	CFM	346/317/268/221	346/317/268/221	361/351/303/253	449/477/403/338	449/477/403/338	663/606/550/460
ESP(external static pressure)	Pa	10(10-30)	10(10-30)	10(10-30)	10(10-30)	10(10-30)	10(10-30)
Sound pressure level(H/M/L)	dB(A)	36/35/32	36/35/32	38.6/37.5/33.8	39/37.9/34	39/37.9/34	41.4/39/35
Refrigerant		Type	R410A				
Control method			EXV				
Indoor Unit	Net dim.(WxHxD)	in.(mm)	29-9/64x8-17/64x19-11/16 (740x210x500)		37-51/64x8-17/64x19-11/16 (960x210x500)	46-29/64x8-17/64x19-11/16 (1180x210x500)	
	Gross dim.(WxHxD)	in.(mm)	34-1/4x11-7/32x20-43/64 (870x285x525)		43-57/64x11-7/32x20-43/64 (115x285x525)	52-9/16x11-7/32x20-43/64 (135x285x525)	
	NetGross	lbs.(kg)	38.6/44.1(17.5/20)	38.6/44.1(17.5/20)	38.6/44.1(17.5/20)	49.6/57.3(22.5/26)	61.8/69.5(28/31.5)
Piping connections	L(flare)	in.(mm)	1/4(Φ6.35)	1/4(Φ6.35)	1/4(Φ6.35)	1/4(Φ6.35)	3/8(Φ9.53)
	G(flare)	in.(mm)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	5/8(Φ15.9)
	Drain piping	in.(mm)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)
Standard Controller							
Wired controller KJR-29B1/BK-E (6 meters connection wire)							

Model		MDV-D80T2 /VN1-BA5	MDV-D90T2 /VN1-BA5	MDV-D112T2 /VN1-BA5	MDV-D140T2 /VN1-BA5		
Power supply							
Cooling capacity	kW	8	9	11.2	14		
	kcal/h	6900	7700	9600	12000		
	Btu/h	27300	30700	38200	47800		
Heating capacity	kW	9	10	12.5	15.5		
	kcal/h	7700	8600	10800	13300		
	Btu/h	30700	34100	42700	52900		
Rated input	Cooling	W	133	134	378		
	Heating		133	134	352		
Rated current	Cooling	A	1	1	1.8		
	Heating		1	1	1.55		
Airflow rate (SH/H/M/L)	m³/h	1,388(50pa)/1,345/1,165/1,013	1,388(50pa)/1,345/1,165/1,013	1,851(80pa)/1,800/1,556/1,400	1,745(100pa)/1,905/1,636/1,400		
	CFM	817/792/686/596	817/792/686/596	1,089/1,059/916/824	1,027/1,121/963/824		
ESP(external static pressure)	Pa	20(10-50)	20(10-50)	40(10-80)	40(10-100)		
Sound pressure level(H/M/L)	dB(A)	45.4/39.8/37	45.4/39.8/37	48.0/41.9/38	47.7/43.2/39		
Refrigerant		Type	R410A				
Control method			EXV				
Indoor Unit	Net dim.(WxHxD)	in.(mm)	48-27/64x10-5/8x30-33/64 (1230x270x775)		50-25/32x11-13/16x34-1		
	Gross dim.(WxHxD)	in.(mm)	53-11/32x13-25/31x31-19/64 (1355x350x795)		55-1/8x14-49/64x36-27		
	NetGross	lbs.(kg)	84/102.5(38/46.5)	88.2/105.8 (40/48)	88.2/105.8 (40/48)	108.0/1/27.9(49/58)	
Piping connections	L(flare)	in.(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	
	G(Flare)	in.(mm)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	
	Drain piping	in.(mm)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)	OD 63/64(Φ25)	
Standard Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)				
Notes:							

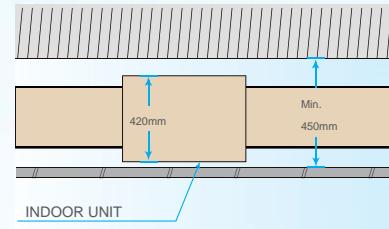
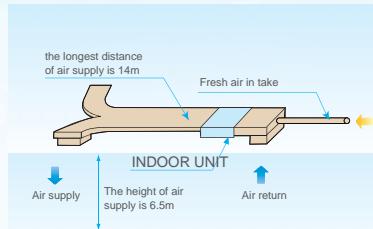
High Static Pressure Duct



- Auto Restart
- Anti-Cold Air Function
- Auto Addressing
- Connectable To Duct
- Follow Me
- Wired Controller

Flexible duct design

External static pressure can be up to 196Pa (models 71 to 160) or 280Pa (models 200 to 560).



The maximum distance for air supply is about 14m at height of 6.5m.

With a 420mm (models 71 to 160) thick body, the minimum distance required above the ceiling is 450mm.

Greater flexibility with the four-speed fan

Four speed fan motor(model 71 to 160)

Convenient installation

The EXV is fixed inside the indoor unit (models 70-160), requires no extra connection.

Standard filter is housed in an aluminum frame, which is removable from the bottom in the downward direction.

Flange for air in/outlet duct connection is standard.

Flexible control and convenient for maintenance

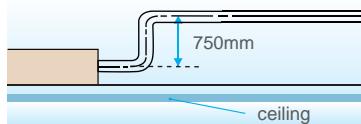
Wired remote controller KJR-29B1/BK-E is as standard, and wireless remote controller RM05/BG(T)E-A is as an option.

The display board is connected to the E-box in factory, easier troubleshooting by LED display.

Easy access filters both at the rear & bottom

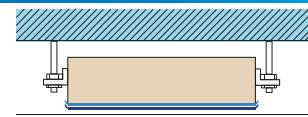
Standard functional port such as remote on/off dry contact.

Option



Drain pump with 750mm pump head is optional (models 71 to 160)

Double-skin drainage pan



Double-skin drainage pan provide double protection for ceilings (models 71 to 160 and models 400 to 560)

50Hz Specifications

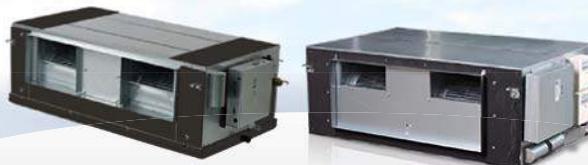
Model		MDV-D71T1/N1-B	MDV-D80T1/N1-B	MDV-D90T1/N1-B	MDV-D112T1/N1-B	MDV-D140T1/N1-B	MDV-D160T1/N1-B	
Power Supply		220 ~ 240V-1Ph-50Hz						
Capacity	Cooling	kW kcal/h Btu/h	7.1 6,100 24,200	8 6,900 27,300	9 7,700 30,700	11.2 9,600 38,200	14 12,000 47,800	16 13,800 54,600
	Heating	kW kcal/h Btu/h	8 6,900 27,300	9 7,700 30,700	10 8,600 34,100	12.5 10,800 42,700	16 13,800 54,600	17 14,600 58,000
Power (Cooling)	Input	W Rated Current	263 A 1.23	263 A 1.23	423 1.87	524 2.3	724 2.85	940 4.77
	Power (Heating)	Input Rated Current	W A 263 1.23	263 1.23	423 1.87	524 2.3	724 2.85	940 4.77
Indoor air flow (H/M/L)		m³/h CFM	1,443/1,361/1,218 849/801/717	1,416/1,338/1,220 883/788/718	1,951/1,741/1,518 1,148/1,025/893	2,116/1,936/1,520 1,246/1,140/895	3,000/2,618/2,226 1,766/1,541/1,310	3,620/3,044/2,744 2,131/1,792/1,615
ESP (external static pressure)		Pa	25(25~196)	37(37~196)	37(37~196)	50(50~196)	50(50~196)	50(50~196)
Sound pressure level(H/M/L)		dB(A)	48/46/44	48/46/44.5	52/49/47	52/49/47	53/50/48	54/52/50
Refrigerant	Type	R410A						
	Control method	EXV						
Net dimension	WxHxD	mm	952x420x690	952x420x690	952x420x690	1,300x420x691	1,300x420x691	
Packing dimension	WxHxD	mm	1,090x440x768	1,090x440x768	1,090x440x768	1,436x450x768	1,436x450x768	
Net/Gross Weight	kg		45/50	45/50	46.5/52.4	50.6/56	68/70	70/75
Piping Connections	L(flare)	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	G(flare)	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain piping		mm	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32
Standard Controller		-	Wired controller KJR-29B1/BK-E (6 meters connection wire)					

Model		MDV-D200T1/N1-B	MDV-D250T1/N1-B	MDV-D280T1/N1-B	MDV-D400T1/N1	MDV-D450T1/N1	MDV-D560T1/N1	
Power Supply		220 ~ 240V-1Ph-50Hz						
Capacity	Cooling	kW kcal/h Btu/h	20 17,200 68,200	25 21,500 85,300	28 24,100 95,500	40 34,400 136,500	45 38,700 153,500	56 48,200 191,100
	Heating	kW kcal/h Btu/h	22.5 19,400 76,800	26 22,400 88,700	31.5 27,100 107,500	45 38,700 153,500	50 43,000 170,600	63 54,200 214,960
Power (Cooling)	Input	W Rated Current	1516 A 8.6	1516 A 8.6	1516 A 8.6	2700 12.5	2700 12.5	3400 15.5
	Power (Heating)	Input Rated Current	W A 1516 8.6	1516 8.6	1516 8.6	2700 12.5	2700 12.5	3400 15.5
Indoor air flow (H/M/L)		m³/h CFM	3,840/3,595/2,970 2,260/2,116/1,748	3,840/3,595/2,970 2,260/2,116/1,748	3,840/3,595/2,970 2,260/2,116/1,748	7,472/6,072/4,995 4,398/3,574/2,940	7,472/6,072/4,995 4,398/3,574/2,940	9,550/7,950/6,600 5,621/4,679/3,884
ESP (external static pressure)		Pa	200(50~280)	200(50~280)	200(50~280)	200(50~280)	200(50~280)	200(50~280)
Sound pressure level(H/M/L)		dB(A)	59/55/52	59/55/52	59/55/52	61/59/56	61/59/56	63/60/57
Refrigerant	Type	R410A						
	Control method	EXV						
Net dimension	WxHxD	mm	1,443x470x810	1,443x470x810	1,443x470x810	1,970x668x902.5	1,970x668x902.5	
Packing dimension	WxHxD	mm	1,509x550x990	1,509x550x990	1,509x550x990	2,095x800x964	2,095x800x964	
Net/Gross Weight	kg		115/129	115/129	115/129	232/245	232/250	
Piping Connections	L(flare)	mm	Φ9.53x2	Φ9.53x2	Φ9.53x2	Φ12.7x2	Φ12.7x2	Φ15.9x2
	G(flare)	mm	Φ15.9x2	Φ15.9x2	Φ15.9x2	Φ22.2x2	Φ22.2x2	Φ28.6x2
Drain piping		mm	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32
Standard Controller		-	Wired controller KJR-29B1/BK-E (6 meters connection wire)					

Notes:

- Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature: 35°CDB, equivalent ref. piping: 8m (horizontal)
- Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)
- Sound level is measured at 1.4m below the air out-fit.
- * External static pressure is based on high speed indoor air flow.
- * Specifications are subject to change without prior notice for product improvement.

Fresh Air Processing Unit



Healthy and comfortable

Fresh air is imported, provides a healthy and comfortable living environment.

100% Fresh air processing unit



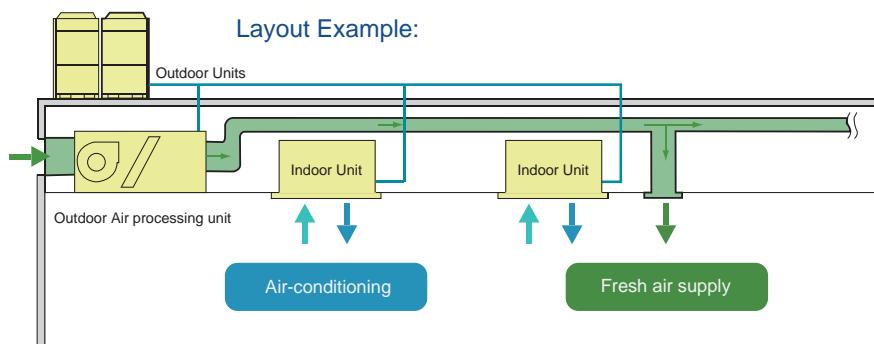
Both fresh air filtration and heating/cooling can be achieved in a single system.

Indoor units and fresh air processing unit can be connected to the same refrigerant system, increasing design flexibility and greatly reducing total system costs.

High external static pressure

External static pressure can be up to 220Pa(models 125 to 140) and 260Pa(models 200 to 280) for more flexible duct applications. The maximum distance of air supply is about 14m and the maximum height of air supply is about 6.5m.

Innovative air supply technology for excellent room temperature control



50Hz Specifications

Model		MDV-D125T1/N1-FA	MDV-D140T1/N1-FA	MDV-D200T1/N1-FA	MDV-D250T1/N1-FA	MDV-D280T1/N1-FA
Power Supply		1-phase, 220-240V, 50Hz				
Capacity	Cooling	kW kcal/h Btu/h	12.5 10,800 42,700	14 12,000 47,800	20 17,200 68,200	25 21,500 85,300
	Heating	kW kcal/h Btu/h	10.5 9,000 35,800	12 10,300 41,000	18 15,550 61,400	20 17,200 68,200
	Power (Cooling)	Input Rated Current	W A	430 2.4	430 2.4	1,063 5.3
Power (Heating)	Input Rated Current	W A	461 2.4	430 2.4	1,063 5.3	1,063 5.6
	Air flow (H/M/L)	m³/h CFM	2,142/1,870/1,611 1,261/110/948	2,142/1,870/1,611 1,261/110/948	3,210/2,700/2,200 1,889/1,589/1,295	3,205/2,750/2,300 1,886/1,619/1,354
	ESP (external static pressure)	Pa	50(50~196)	50(50~196)	200(50~280)	200(50~280)
Sound pressure level(H/M/L)		dB(A)	54/52/50	54/52/50	54/53/51	55/54/52
Refrigerant		Type	R410A			
Control method			EXV			
Net dimension	WxHxD	mm	1,300x420x690	1,300x420x690	1,443x470x810	1,443x470x810
Packing dimension	WxHxD	mm	1,436x450x768	1,436x450x768	1,509x550x990	1,509x550x990
Net/Gross Weight	kg	69.5/76	69.5/76	115/125	115/125	115/125
Piping Connections	L(flare)	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	G(flare)	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Drain piping	mm	OD φ25	OD φ25	OD φ32	OD φ32
Standard Controller	-		Wired controller KJR-29B1/BK-E (6 meters connection wire)			

60Hz Specifications

Model		MDV-D125T1/VN1-FA	MDV-D140T1/VN1-FA	MDV-D200T1/VN1-FA	MDV-D250T1/VN1-FA	MDV-D280T1/VN1-FA
Power Supply		208 ~ 230V~1ph-60Hz				
Capacity	Cooling	kW kcal/h Btu/h	12.5 10,800 42,600	14 12,000 47,800	20 17,200 68,200	25 21,500 85,300
	Heating	kW kcal/h Btu/h	10.5 9,000 36,000	12 10,300 41,000	18 15,500 61,400	20 17,200 68,200
	Power input	Cooling Heating	468 468	468 468	616 616	616 616
Rated current	Cooling	A	2.4	2.4	4.2	4.4
	Heating	A	2.4	2.4	4.2	4.4
Indoor air flow (H/M/L)		m³/h CFM	2,142/1,870/1,611 1,261/1,101/948	2,142/1,870/1,611 1,261/1,101/948	3,210/2,700/2,200 1,889/1,589/1,295	3,205/2,750/2,300 1,886/1,619/1,354
ESP (external static pressure)		Pa	50(50~196)	50(50~196)	200(50~280)	200(50~280)
Sound pressure level(H/M/L)		dB(A)	54/52/50	53/50/48	54/53/51	55/54/52
Refrigerant		Type	R410A			
Control method			EXV			
Net dimension	WxHxD	in.(mm)	51-3/16x16-17/32x27-11/64(1300x420x690)		56-13/16x18-1/2x31-57/64(1443x470x810)	
Packing dimension	WxHxD	in.(mm)	56-17/32x17-23/32x30-1/4(1436x450x768)		59-13/32x21-21/32x38-31/32(1,509x550x990)	
Net/Gross Weight	lbs.(kg)	513.2/167.5(69.5/76)	153.2/167.5(69.5/76)	251/274(114/124)	251/274(114/124)	251/274(114/124)
Piping Connections	L(flare)	in.(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)
	G(flare)	in.(mm)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)	OD 1-17/64(Φ32)			
Standard Controller	-		Wired controller KJR-29B1/BK-E (6 meters connection wire)			

Notes:
1. Nominal cooling capacities are based on the following conditions: outdoor air temp.:91.4°F(33°C)DB, 75.2°F(24°C)WB, equivalent ref. piping:26.25ft. (8m)(horizontal).

2. Nominal heating capacities are based on the following conditions: outdoor air temp.:32°F(0°C)DB, 30.2°F(-1°C)WB, equivalent ref. piping:26.25ft. (8m)(horizontal).

3. Sound level is measured 4.59ft.(1.4m) from the air out-let.

* External static pressure are based on high speed indoor air flow.

* Specifications are subject to change without prior notice for product improvement.

* When outdoor-air processing units are connected, the total connection capacity must be within 50% to 100% of that of the outdoor units.

* When outdoor-air processing units and standard indoor units are connected, the total connection capacity of the outdoor-air processing units must not exceed 30% of that of the outdoor units.

* Outdoor-air processing units can be used without indoor units.

* The fresh air processing unit is not available for V4+R system.Connection Conditions:The following restrictions must be observed in order to maintain the indoor units connected to the same system.

60Hz Specifications

Model			MDV-D71T1/VN1-B	MDV-D80T1/VN1-B	MDV-D90T1/VN1-B	MDV-D112T1/VN1-B	
Power Supply			208~230V-1Ph-60Hz				
Capacity	Cooling	kW	7.1	8	9	11.2	
		kcal/h	6,100	6,900	7,700	9,600	
	Heating	Btu/h	24,200	27,300	30,700	38,200	
		kW	8	9	10	12.5	
Power input	Cooling	kcal/h	6,900	7,700	8,600	10,800	
		Btu/h	27,300	30,700	34,100	42,700	
	Heating	W	414	402	409	409	
		Pa	414	402	409	409	
Rated current	Cooling	A	1.8	1.8	1.8	2.01	
		Heating	1.8	1.8	1.8	2.01	
	m³/h	1683/1550/1317	1683/1550/1317	2240/2020/1590	2186/1975/1560		
		CFM	990/912/775	990/912/775	1318/1188/935	1286/1162/918	
EXP (external static pressure)			Pa	40(30~196)	40(30~196)	40(30~196)	
Sound pressure level(H/M/L)			dB(A)	48/46/44.5	48/46/44.5	52/49/47	
Refrigerant	Type	R410A					
	Control method	EXV					
Net dimension	WxHxD	in.(mm)	37-31/64x16-17/32x27-11/64(952x420x690)				
Packing dimension	WxHxD	in.(mm)	42-29/32x17-21/64x30-15/64(1090x440x768)				
Net/Gross Weight			lbs.(kg)	102.6/114.7(46.5/52)	102.6/114.7(46.5/52)	110.3/124.6(50/56.5)	110.3/124.6(50/56.5)
Piping Connections	L(flare)	in.(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	
	G(flare)	in.(mm)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	
	Drain piping	in.(mm)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	
	Standard Controller	-	Wired controller KJR-29B1/BK-E (6m wire is standard)				

Model			MDV-D140T1/VN1-B	MDV-D160T1/VN1-B	MDV-D400T1/N1	MDV-D450T1/N1	
Power Supply			208~230V-1Ph-60Hz				
Capacity	Cooling	kW	14	16	40	45	
		kcal/h	12,000	13,800	34400	38,700	
	Heating	Btu/h	47,800	54,600	136500	153,500	
		kW	16	18	45	50	
Power input	Cooling	kcal/h	13,800	15,500	38700	43,000	
		Btu/h	54,600	61,400	153,500	170600	
	Heating	W	527	532	1,600	1,600	
		Pa	527	532	1,600	1,600	
Rated current	Cooling	A	2.2	2.2	7.5	7.5	
		Heating	2.2	2.2	7.5	7.5	
	m³/h	2969/2688/2469	2969/2688/2469	7083/6200/4630	7083/6200/4630		
		CFM	1746/1582/1452	1746/1582/1452	4166/3647/2723	4166/3647/2723	
EXP (external static pressure)			Pa	50(30~196)	50(30~196)	196(50~250)	
Sound pressure level(H/M/L)			dB(A)	53/50/48	54/52/50	61/59/56	
Refrigerant	Type	R410A					
	Control method	EXV					
Net dimension	WxHxD	in.(mm)	47-1/4x15-3/4x23-5/8 (1,200x400x600)				
Packing dimension	WxHxD	in.(mm)	56-17/32x17-23/32x30-15/64(1436x450x768)				
Net/Gross Weight			lbs.(kg)	149.9/154.3(68/70)	153.3/167.6(69.5/76)	511/540(232/245)	511/540(232/245)
Piping Connections	L(flare)	in.(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	
	G(flare)	in.(mm)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)	
	Drain piping	in.(mm)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	OD 1-17/64(Φ32)	
	Standard Controller	-	Wired controller KJR-29B1/BK-E(6m wire is standard)				

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temperature: 80.6°F(27°C)DB, 66.2°F(19°C)WB, and outdoor temperature: 95°F(35°C)DB, equivalent ref. Piping: 26.25ft(8m)(horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 68°F(20°C)DB, outdoor temperature: 44.6°F(7°C)DB, 42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft(8m)(horizontal)
3. Sound Level is measured 4.59ft. (1.4m) below the unit.
- * Specifications are subject to change without prior notice for product improvement.

Ceiling & Floor



- | | | | |
|--|-----------------|--|------------------------|
| | Auto Restart | | Cleanable Panel |
| | Auto Addressing | | Anti-Cold Air Function |
| | Follow Me | | LED Display |

Panel with LED display

The front panel and display panel have different colors to choose: white and brown for big panel, blue and brown for small panel. Other colors are available if required.

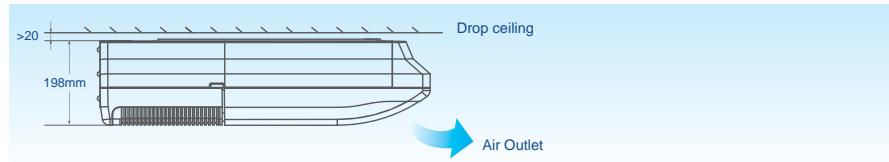
Convenient installation

- The unit even can be easily installed at the corner of a narrow ceilings.
- It is especially useful when central installation is impossible due to features such as lights.



The unit can be installed either horizontally on the ceiling or vertically against the wall.

Quiet and comfortable environment



- The slim and sleek design starting at just 30kg enables quick, easy and neat installation.
- Low noise operations; minimum 36 dB(A)

Auto swing and wide angle air flow



- Auto horizontal and auto vertical swing functions for more even and comfortable airflow.
- Three air flow speeds: low, medium and high; double air guides.
- Adopt electrical expansion valve, ensuring precise flow control, lower modulation noise when EXV operating.
- Smoothen airflow and less turbulence due to the multi-blade fan and the air guide design.

50Hz Specifications

Model		MDV-D36DL/N1-C	MDV-D45DL/N1-C	MDV-D56DL/N1-C	MDV-D71DL/N1-C	MDV-D80DL/N1-C
Power supply		1-phase, 220-240V, 50Hz				
Cooling capacity	kW	3.6	4.5	5.6	7.1	8
	kcal/h	3,100	3,900	4,800	6,100	6,900
	Btu/h	12,300	15,400	19,100	24,200	27,300
Heating capacity	kW	4	5	6.3	8	9
	kcal/h	3,400	4300	5,400	6,800	7,700
	Btu/h	13,600	17,100	21,500	27,300	30,700
Power input	Cooling	49	120	122	125	130
	Heating	49	120	122	125	130
Rated current	Cooling	A	0.23	0.67	0.67	0.83
	Heating		0.23	0.67	0.67	0.83
Airflow rate(H/M/L)		m³/h	650/570/500	800/600/500	800/600/500	1,200/900/700
		CFM	383/335/294	471/353/294	471/353/294	706/530/412
Sound pressure level(H/M/L)		dB(A)	40/38/36	43/41/38	43/41/38	45/43/40
Refrigerant		Type	R410A			
		Control method	EXV			
Net dimension(WxHxD)		mm	990x203x660	990x203x660	990x203x660	1,280x203x660
Packing dimension(WxHxD)		mm	1,089x296x744	1,089x296x744	1,089x296x744	1,379x296x744
Net weight		kg	26	28	28	34.5
Gross weight		kg	32	34	34	41
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ9.53	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Drain piping	mm	OD Φ16	OD Φ16	OD Φ16	OD Φ16
Standard Controller		-	Wireless remote controller(RM05/BG(T)E-A)			

Model		MDV-D90DL/N1-C	MDV-D112DL/N1-C	MDV-D140DL/N1-C	MDV-D160DL/N1-C	
Power supply		1-phase, 220-240V, 50Hz				
Cooling capacity	kW	9	11.2	14	16	
	kcal/h	7,700	9,600	13,300	13,800	
	Btu/h	30,700	38,200	47,800	54,600	
Heating capacity	kW	10	12.5	15	18	
	kcal/h	8,600	10,800	12,900	15,500	
	Btu/h	34,100	42,700	51,200	61,400	
Power input	Cooling	W	130	182	182	
	Heating		130	182	182	
Rated current	Cooling	A	0.83	1.11	1.11	
	Heating		0.83	1.11	1.11	
Airflow rate(H/M/L)		m³/h	1,200/900/700	1,980/1,860/1,730	1,980/1,860/1,730	
		CFM	706/530/412	1,165/1,095/1,018	1,165/1,095/1,018	
Sound pressure level(H/M/L)		dB(A)	45/43/40	47/45/42	47/45/42	
Refrigerant		Type	R410A			
		Control method	EXV			
Net dimension(WxHxD)		mm	1,280x203x660	1,670x244x680	1,670x244x680	1,670x285x680
Packing dimension(WxHxD)		mm	1,379x296x744	1,764x329x760	1,764x329x760	1,775x377x760
Net weight		kg	34.5	54	54	57.5
Gross weight		kg	41	59	59	63.5
Piping connections	L(flare)	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	G(flare)	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Drain piping	mm	ODΦ16	ODΦ16	ODΦ16	ODΦ16
Standard Controller		-	Wireless remote controller(RM05/BG(T)E-A)			

Notes:
 1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature: 35°CDB, equivalent ref. piping: 8m (horizontal)
 2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temp.: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)
 3. Floor standing Sound level is measured 1m from air-outlet in horizontal distance, 1m above the floor in vertical distance.
 Ceiling mounted:Sound level is measured 1m from air-outlet in horizontal distance,1m from air-outlet in vertical distance.
 * Specifications are subject to change without prior notice for product improvement.

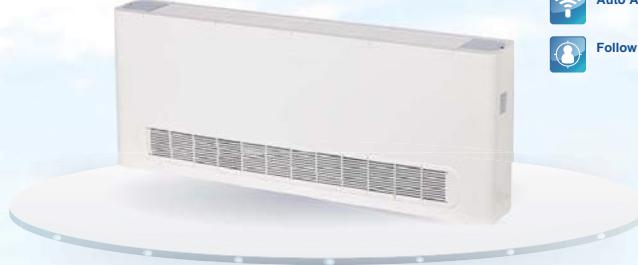
60Hz Specifications

Model		MDV-D36DL/N1-C	MDV-D45DL/N1-C	MDV-D56DL/N1-C	MDV-D71DL/N1-C	
Power supply		220-240V-1Ph-60Hz				
Cooling capacity	kW	3.6	4.5	5.6	7.1	
	kcal/h	3,100	3,900	4,800	6,100	
	Btu/h	12,300	15,400	19,100	24,200	
Heating capacity	kW	4	5	6.3	8	
	kcal/h	3,400	4300	5,400	6,800	
	Btu/h	13,600	17,100	21,500	27,300	
Power input	Cooling	W	49	120	122	
	Heating		49	120	122	
Rated current	Cooling	A	0.23	0.67	0.67	
	Heating		0.23	0.67	0.67	
Airflow rate(H/M/L)		m³/h	600/480/400	750/650/550	750/650/550	
		CFM	353/283/235	441/383/324	441/383/324	
Sound pressure level(H/M/L)		dB(A)	40/38/36	43/41/38	43/41/38	
Refrigerant		Type	R410A			
		Control method	EXV			
Net dimension(WxHxD)		in.(mm)	38-31/32-7-63/64x25-63/64(990x203x660)			
Packing dimension(WxHxD)		in.(mm)	42-7/8x11-21/32x29-9/32(1089x296x744)			
Net/Gross weight		lbs.(kg)	57.3/70.6(26/32)	61.7/75.0(28/34)	61.7/75.0(28/34)	61.7/75.0(28/34)
Piping connections	L(flare)	in.(mm)	1/4(Φ6.35)	1/4(Φ6.35)	3/8(Φ9.53)	3/8(Φ9.53)
	G(flare)	in.(mm)	1/2(Φ12.7)	1/2(Φ12.7)	5/8(Φ15.9)	5/8(Φ15.9)
	Drain piping	in.(mm)	OD 5/Φ16	OD 5/Φ16	OD 5/Φ16	OD 5/Φ16
Standard Controller		-	Wireless remote controller (RM05/BG(T)E-A)			

Model		MDV-D80DL/N1-C	MDV-D90DL/N1-C	MDV-D112DL/N1-C	MDV-D140DL/N1-C	MDV-D160DL/N1-C
Power supply		220-240V-1Ph-60Hz				
Cooling capacity	kW	8	9	11.2	14	16
	kcal/h	6,900	7,700	9,600	12,000	13,800
	Btu/h	27,300	30,700	38,200	47,800	54,600
Heating capacity	kW	9	10	12.5	15	18
	kcal/h	7,700	8,600	10,800	12,900	15,477
	Btu/h	30,700	34,100	42,700	51,200	61,400
Power input	Cooling	W	183	183	245	378
	Heating		183	183	245	378
Rated current	Cooling	A	0.6	0.6	0.83	1.75
	Heating		0.6	0.6	0.83	1.75
Airflow rate(H/M/L)		m³/h	1,200/900/700	1,200/900/700	1,980/1,860/1,730	1,980/1,860/1,730
		CFM	706/530/412	706/530/412	1,165/1,095/1,018	1,165/1,095/1,018
Sound pressure level(H/M/L)		dB(A)	45/43/40	45/43/40	47/45/42	47/45/42
Refrigerant		Type	R410A			
		Control method	EXV			
Net dimension(WxHxD)		in.(mm)	50-25/64x7-63/64x25-63 /64(1280x203x660)	65-3/4x9-39/64x26-49/64 (1670x244x680)		65-3/4x11-7/32x26-49/64 (1670x285x680)
Packing dimension(WxHxD)		in.(mm)	54-19/64x11-21/32x29-19/64 (1379x296x744)	69-29/64 x12-61/64x29-59/64 (1764x329x760)		69-7/8x14-27/32x29-59/64 (1775x377x760)
Net/Gross weight		lbs.(kg)	76.1/90.4(34.5/41)	76.1/90.4(34.5/41)		119.0/130.1(54/59)
Piping connections	L(flare)	in.(mm)	3/8(Φ9.53)	3/8(Φ9.53)		126.5/139.7(57.5/63.5)
	G(flare)	in.(mm)	5/8(Φ15.9)	5/8(Φ15.9)		5/8(Φ15.9)
	Drain piping	in.(mm)	OD 5/Φ16	OD 5/Φ16		OD 5/Φ16
Standard Controller		-	Wireless remote controller (RM05/BG(T)E-A)			

Notes:
 1. Nominal cooling capacities are based on the following conditions: return air temperature: 20.6°F(27°C)DB,66.2°F(19°C)WB, and outdoor temperature: 95°F(35°C)DB, equivalent ref. piping: 26.25ft.(8m) (horizontal)
 2. Nominal heating capacities are based on the following conditions: return air temperature: 68°F(20°C)DB, outdoor temperature: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. piping: 26.25ft.(8m) (horizontal)
 3. Floor standing Sound level is measured 3.28ft(1m) from air-outlet in horizontal distance, 3.28ft(1m) above the floor in vertical distance.
 Ceiling mounted:Sound level is measured 3.28ft(1m) from air-outlet in horizontal distance,3.28ft(1m) from air-outlet in vertical distance.
 * Specifications are subject to change without prior notice for product improvement.

Floor Standing



- | | | | |
|--|------------------------|--|-------------------------------|
| | Auto Restart | | Cleanable Panel |
| | Auto Addressing | | Anti-Cold Air Function |
| | Follow Me | | LED Display |

Easy installation

Floor standing types can be hung on the wall or installed on the floor. The floor type of unit can make cleaning and maintenance much easier. Running the piping from the rear allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.

Easy maintenance

Filter is provided as a standard accessory. It can be removed and cleaned easily thanks to Midea's sophisticated design and the product's removable blades.

The streamlined appearance harmonizes the unit with a given room's interior decor. All metal parts are made of commercial grade galvanized steel for maximum protection against corrosion.

Saves installation space

Concealed floor standing type



F3B series concealed type



Air intake from front(F4 series)



Air intake from below(F5 series)

50Hz Specifications

Model	MDV-D22Z/N1-F3B	MDV-D28Z/N1-F3B	MDV-D36Z/N1-F3B	MDV-D45Z/N1-F3B	MDV-D56Z/N1-F3B	MDV-D71Z/N1-F3B	MDV-D80Z/N1-F3B		
	MDV-D22Z/N1-F4	MDV-D28Z/N1-F4	MDV-D36Z/N1-F4	MDV-D45Z/N1-F4	MDV-D56Z/N1-F4	MDV-D71Z/N1-F4	MDV-D80Z/N1-F4		
	MDV-D22Z/N1-F5	MDV-D28Z/N1-F5	MDV-D36Z/N1-F5	MDV-D45Z/N1-F5	MDV-D56Z/N1-F5	MDV-D71Z/N1-F5	MDV-D80Z/N1-F5		
Power supply		1-phase, 220-240V, 50Hz							
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8	
	kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	6,900	
Heating capacity	Btu/h	7,500	9,500	12,300	15,400	19,100	24,200	27,300	
	kW	2.4	3.2	4	5	6.3	8	9	
	kcal/h	2,100	2,800	3,400	4,300	5,400	6,900	7,700	
Power input	W	40	46	46	49	88	130	130	
		40	46	46	49	88	130	130	
Rated current	A	0.19	0.2	0.19	0.22	0.38	0.57	0.57	
		0.19	0.2	0.15	0.22	0.38	0.57	0.57	
Airflow rate(H/M/L)		m³/h	530/456/400	569/485/421	624/522/375	660/542/440	1,150/970/830	1,380/1,100/870	
		CFM	312/268/235	335/285/248	367/307/221	388/319/259	677/571/489	812/647/512	
Sound pressure level(H/M/L)	F3B	dB (A)	36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	
	F4		36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	
	F5		36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	
Refrigerant	Type					R410A			
	Control method					EXV			
Net dimension (WxHxD)	F3B	mm	840x544x212	840x544x212	1,036x544x212	1,036x544x212	1,336x544x212	1,336x544x212	
	F4		1,000x625x220	1,000x625x220	1,200x625x220	1,200x625x220	1,500x625x220	1,500x625x220	
	F5		1,000x625x220	1,000x625x220	1,200x625x220	1,200x625x220	1,500x625x220	1,500x625x220	
Packing dimension (WxHxD)	F3B	mm	939x639x305	939x639x305	1,139x639x305	1,139x639x305	1,439x639x305	1,439x639x305	
	F4		1,089x683x312	1,089x683x312	1,289x683x312	1,289x683x312	1,589x683x312	1,589x683x312	
	F5		1,182x683x312	1,182x683x312	1,382x683x312	1,382x683x312	1,682x683x312	1,682x683x312	
Net/Gross weight	F3B	kg	26/29.5	26/29.5	29.5/34	29.5/34	36/40	36/40	
	F4		30/35	30/35	37/43	37/43	44/50	44/50	
	F5		30/38	30/38	37/46	37/46	44/53	44/53	
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	
	G(flare)		Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	
	Drain piping		ODΦ16	ODΦ16	ODΦ16	ODΦ16	ODΦ16	ODΦ16	
Standard Controller							Wireless remote controller(RM05/BG(T)-E-A)		

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature: 35°CDB, equivalent ref. piping: 8m (horizontal)

2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. piping: 8m (horizontal)

3. Sound level is measured 1m from the air out-let in horizontal distance and 1m above the floor in vertical distance.

* Specifications are subject to change without prior notice for product improvement.

Console



- Auto Restart
- Cleanable Panel
- Auto Addressing
- Anti-Cold Air Function
- Follow Me
- LED Display

Compact size and stylish

- The elegant and thin unit body complements the existing decor and saves space.
- The EXV is installed inside of the indoor unit for added compactness.

Flexible installation

- Can be installed on the floor or lower wall
- As a floor standing type, it can be semi or fully accessed without losing capacity.



High Comfort

- Flexible air blow: vertical auto swing and wide angle louvers ensure that warm air reaches every corner of the room and increases the air flow coverage.
- Indoor unit adopts DC motor with five fan speeds to meet different requirements.
- Applies the Fujikoki mechanical expansion valve which offers 2,000-stage element positions to ensure precise flow control and lower modulation noise when the EXV is operating.

Powerful mode can be selected for rapid cooling or heating



Two air outlets and four air inlets

Four directions of air inlet; two options of air outlet: Up and Down; or Up only.



Bottom, top, and right/left side, for better ventilation.

Low-noise design

Five-speed indoor unit; low noise; low power consumption.



Low noise operation, lowest to 26dB(A)

50Hz Specifications

Model	MDV-D22Z/DN1-B	MDV-D28Z/DN1-B	MDV-D36Z/DN1-B	MDV-D45Z/DN1-B
Power supply		1-phase, 220-240V, 50Hz		
Cooling capacity	kW	2.2	2.8	3.6
	kcal/h	1,900	2,400	3,100
Heating capacity	kW	2.6	3.2	4.0
	kcal/h	2,200	2,800	3,400
Power input	Btu/h	7,500	9,600	12,300
	W	20	25	25
Rated current	Heating	20	25	25
	Cooling	0.09	0.11	0.15
Airflow rate(H/M/L)	A	0.09	0.11	0.15
	m³/h	430/345/229	510/430/229	510/430/229
Sound pressure level(H/M/L)	CFM	253/203/135	300/253/135	300/253/135
	dB(A)	38/32/26	39/33/27	39/33/27
Refrigerant	Type	R410A	R410A	R410A
	Control method	EXV	EXV	EXV
Net dimension(WxHxD)	mm	700x210x600	700x210x600	700x210x600
	Packing dimension(WxHxD)	810x305x710	810x305x710	810x305x710
Net weight	kg	14	15	15
	Gross weight	19	20	20
Piping connections	L(flare)	Φ6.35	Φ6.35	Φ6.35
	G(flare)	Φ12.7	Φ12.7	Φ12.7
Standard Controller	Drain piping	-	OD Φ16	OD Φ16
			Wireless remote controller(RM05/BG(T)E-A)	Wireless remote controller(RM05/BG(T)E-A)

60Hz Specifications

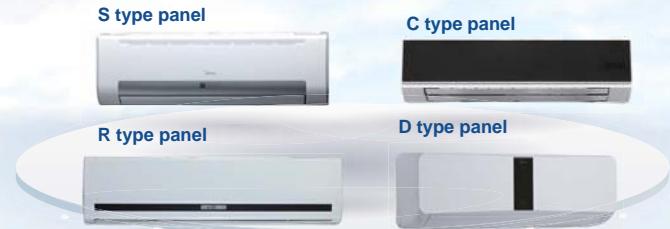
Model	MDV-D22Z/DN1-B	MDV-D28Z/DN1-B	MDV-D36Z/DN1-B	MDV-D45Z/DN1-B
Power supply		220-240V~, 1Ph, 60Hz		
Cooling capacity	kW	2.2	2.8	3.6
	kcal/h	1,900	2,400	3,100
Heating capacity	kW	2.6	3.2	4.0
	kcal/h	2,200	2,800	3,400
Power input	Btu/h	7,500	9,600	12,300
	W	20	25	25
Rated current	Heating	20	25	25
	Cooling	0.09	0.11	0.15
Airflow rate(H/M/L)	A	0.09	0.11	0.15
	m³/h	468/450/395	468/450/395	467/427/395
Sound pressure level(H/M/L)	CFM	275/265/232	275/265/232	275/251/232
	dB(A)	38/32/26	39/33/27	39/33/27
Refrigerant	Type	R410A	R410A	R410A
	Control method	EXV	EXV	EXV
Net dimension(WxHxD)	mm	27-9/16x8-9/32x23-5/8(700x210x600)		
	Packing dimension(WxHxD)	in.(mm)	31-7/8x12-1/64x27-15/16 (810x305x710)	
Net weight	lbs.(kg)	30.9(14)	33(15)	33(15)
	gross weight	42.9(19)	44.1(20)	44.1(20)
Piping connections	L(flare)	Φ1/4(Φ6.35)	Φ1/4(Φ6.35)	Φ1/4(Φ6.35)
	G(flare)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)
Standard Controller	Drain piping	in.(mm)	OD 5/8(Φ16)	OD 5/8(Φ16)
			Wireless remote controller (RM05/BG(T)E-A)	Wireless remote controller (RM05/BG(T)E-A)

Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 80.6°F(27°C)DB, 66.2°F(19°C)WB, and outdoor temp.: 95°F(35°C)DB, equivalent ref. piping: 26.25ft(8m) (horizontal)
- Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB, 42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft(8m) (horizontal)
- Sound level is measured 3.28ft.(1m) from the air out-let in horizontal distance and 3.28ft.(1m) above the floor in vertical distance.

* Specifications are subject to change without prior notice for product improvement.

Wall-mounted



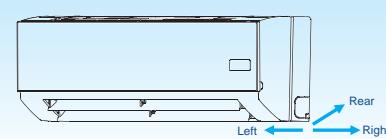
- Auto Restart
- Auto Addressing
- Cleanable Panel
- Anti-Cold Air Function
- Follow Me
- LED Display

Panel with LED display

The front panel and display panel have different colors to choose: white and brown for big panel, blue and brown for small panel.

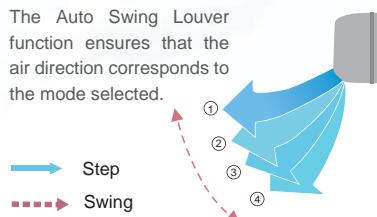
Convenient installation

- Multi-refrigerant outlet pipe method: left\right\rear, more flexible for installation.
- For S panel,R panel & C panel , the EXV is built-in the indoor unit , compact size , longer the connection pipe;gas pipe:468mm;liquid pipe:550mm,more flexible for installation. For D panel, the EXV can be 5m far away from the indoor unit, which lower the noise.
- Adopts new type fixing plate, is easy to install and stable.



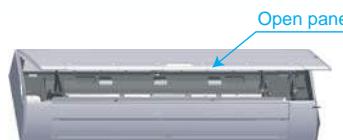
Auto swing louver

The Auto Swing Louver function ensures that the air direction corresponds to the mode selected.



Easy maintenance

The front panel can be removed for easy maintenance access.



Optimal comfort through better flow control and quiet operations

The mechanical expansion valve offers 2,000-stage element positions to ensure precise flow control and less modulation noise when the EXV is operating for a quiet and comfortable environment. Three air flow speeds: low, medium and high; double air guides. Smoother airflow and less turbulence is ensured by the multi-blade fan and the air guide design.



S type panel (50hz)

Model		MDV-D15G/N1-S	MDV-D22G/N1-S	MDV-D28G/N1-S	MDV-D36G/N1-S	MDV-D45G/N1-S	MDV-D56G/N1-S
Power supply		1-phase,220-240V,50Hz					
Cooling capacity	kW	1.5	2.2	2.8	3.6	4.5	5.6
	kcal/h	1290	1900	2400	3100	3900	4800
	Btu/h	5100	7500	9600	12300	15400	19100
Heating capacity	kW	1.7	2.4	3.2	4	5	6.3
	kcal/h	1470	2100	2800	3400	4300	5400
	Btu/h	5800	8200	10900	13600	17100	21500
Rated input	Cooling	28	28	28	28	45	45
	Heating	28	28	28	28	45	45
Rated current	Cooling	0.12	0.14	0.14	0.14	0.2	0.2
	Heating	0.12	0.14	0.14	0.14	0.2	0.2
m³/h		427/389/336	525/480/430	525/480/430	590/520/480	860/755/630	925/860/755
CFM		251/229/198	309/283/253	309/283/253	347/306/283	506/444/371	544/506/444
Sound pressure level(H/M/L)		dBA(A)	33/31/28	35/32/29	35/32/29	35/32/29	40/38/34
Refrigerant		Type	R410A				
Control method			EXV				
Indoor Unit	Netdim(WxHxD)	mm	915x230x290	915x230x290	915x230x290	915x230x290	1072x230x315
	Grossdim(WxHxD)	mm	1,020x315x390	1,020x315x390	1,020x315x390	1,020x315x390	1,180x315x415
	NetGross	kg	12.4/15.9	13/16.8	13/16.8	13/16.8	15.1/19.5
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Drain piping	mm	ODΦ16.5	ODΦ16.5	ODΦ16.5	ODΦ16.5	ODΦ16.5
Standard Controller			Wireless remote controller (RM05/BG(T)E-A)				

Model		MDV-D22G/DN1-S	MDV-D28G/DN1-S	MDV-D36G/DN1-S	MDV-D45G/DN1-S	MDV-D56G/DN1-S
Power supply		1-phase, 220-240V, 50Hz				
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
	kcal/h	1,900	2,400	3,100	3,900	4,800
	Btu/h	7,500	9,600	12,300	15,400	19,100
Heating capacity	kW	2.4+0.75	3.2+0.75	4+0.75	5+0.9	6.3+0.9
	kcal/h	2,100+600	2,800+600	3,400+600	4,300+800	5,400+800
	Btu/h	8,200+2,600	10,900+2,600	13,600+2,600	17,100+3,100	21,500+3,100
Power input	Cooling	28	28	28	45	45
	Heating	28	28	28	45	45
Rated current	Cooling	0.14	0.14	0.14	0.2	0.2
	Heating	0.14+3.38	0.14+3.38	0.14+3.38	0.20+4.05	0.20+4.05
Airflow rate(H/M/L)		m³/h	525/480/430	525/480/430	590/520/480	860/755/630
		CFM	309/283/253	309/283/253	347/306/283	506/444/371
Sound pressure level(H/M/L)		dBA(A)	35/32/29	35/32/29	35/32/29	40/38/34
Refrigerant		Type	R410A			
Control method			EXV			
Net dimension(WxHxD)		mm	915x230x290	915x230x290	915x230x290	1,072x230x315
Packing dimension(WxHxD)		mm	1,020x315x390	1,020x315x390	1,020x315x390	1,180x315x415
Net weight		kg	13.3	13.3	13.3	15.5
Gross weight		kg	17.1	17.1	17.1	19.9
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.53
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
	Drain piping	mm	ODΦ16.5	ODΦ16.5	ODΦ16.5	ODΦ16.5
Standard Controller		-	Wireless remote controller(RM05/BG(T)E-A)			

Notes:

- Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature:35°CDB, equivalent ref. piping: 8m (horizontal)
- Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. piping: 8m (horizontal)
- Sound level is measured 1m below the air outlet horizontally and vertically.

* Specifications are subject to change without prior notice for product improvement.

C type panel (50hz)

Model		MDV-D22G/N1YB	MDV-D28G/N1YB	MDV-D36G/N1YB	MDV-D45G/N1YB	MDV-D56G/N1YB	
Power supply							
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	
	kcal/h	1,900	2,400	3,100	3,900	4,800	
	Btu/h	7,500	9,600	12,300	15,400	19,100	
Heating capacity	kW	2.4	3.2	4	5	6.3	
	kcal/h	2,100	2,800	3,400	4,300	5,400	
	Btu/h	8,200	10,900	13,600	17,000	21,500	
Power input	W	28	28	28	45	45	
		28	28	28	45	45	
Rated current	A	0.14	0.14	0.14	0.2	0.2	
		0.14	0.14	0.14	0.2	0.2	
Airflow rate(H/M/L)		m³/h	520/480/430	520/480/430	520/480/430	860/755/630	
		CFM	306/283/253	306/283/253	306/283/253	506/444/371	
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(WxHxD)		mm	915x210x290	915x210x290	915x210x290	1,070x210x315	
Packing dimension(WxHxD)		mm	1,020x300x385	1,020x300x385	1,020x300x385	1,165x285x395	
Net weight		kg	12	12	12	15	
Gross weight		kg	17.5	17.5	17.5	19	
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.53	
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	
	Drain piping	mm	ODΦ16.5	ODΦ16.5	ODΦ16.5	ODΦ16.5	
Standard Controller		-	Wireless remote controller(RM05/BG(T)E-A)				

Model		MDV-D22G/DN1YB	MDV-D28G/DN1YB	MDV-D36G/DN1YB	MDV-D45G/DN1YB	MDV-D56G/DN1YB	
Power supply							
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	
	kcal/h	1,900	2,400	3,100	3,900	4,800	
	Btu/h	7,500	9,600	12,300	15,400	19,100	
Heating capacity	kW	2.4+0.75	3.2+0.75	4+0.75	5+0.9	6.3+0.9	
	kcal/h	2,100+600	2,800+600	3,400+600	4,300+800	5,400+800	
	Btu/h	8,200+2,600	10,900+2,600	13,600+2,600	17,100+3,100	21,500+3,100	
Power input	W	28	28	28	45	45	
		28	28	28	45	45	
Rated current	A	0.14	0.14	0.14	0.2	0.2	
		0.14+3.38	0.14+3.38	0.14+3.38	0.24+0.05	0.24+0.25	
Airflow rate(H/M/L)		m³/h	520/480/430	520/480/430	520/480/430	860/755/630	
		CFM	306/283/253	306/283/253	306/283/253	506/444/371	
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(WxHxD)		mm	915x210x290	915x210x290	915x210x290	1,070x210x315	
Packing dimension(WxHxD)		mm	1,020x300x385	1,020x300x385	1,020x300x385	1,165x285x395	
Net weight		kg	12	12	12	15	
Gross weight		kg	17.5	17.5	17.5	19	
Piping connections	L(flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.53	
	G(flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	
	Drain piping	mm	ODΦ16.5	ODΦ16.5	ODΦ16.5	ODΦ16.5	
Standard Controller		-	Wireless remote controller(RM05/BG(T)E-A)				

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature: 35°CDB, equivalent ref. piping: 8m (horizontal)

(vertical) 2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. piping: 8m (horizontal)

3. Sound level is measured 1m below the air outlet horizontally and vertically.

* Specifications are subject to change without prior notice for product improvement.

R type panel (50Hz)

Model		MDV-D71G-R3/N1Y	MDV-D80G-R3/N1Y	MDV-D90G-R3/N1Y	
Power supply					
Cooling capacity	kW	7.1	8	9	
	kcal/h	6,100	6,900	7,700	
	Btu/h	24,200	27,300	30,700	
Heating capacity	kW	8	9	10	
	kcal/h	6,900	7,700	8,600	
	Btu/h	27,300	30,700	34,100	
Power input	W	75	86	86	
		75	86	86	
Rated current	A	0.33	0.39	0.39	
		0.33	0.39	0.39	
Airflow rate(H/M/L)		m³/h	1,190/780/580	1,320/840/640	
		CFM	700/459/341	776/494/376	
Sound pressure level(H/M/L)		dB(A)	47/43/42	48/43/38	
Refrigerant		Type	R410A		
		Control method	EXV		
Net dimension(WxHxD)		mm	1,250x245x325	1,250x245x325	
Packing dimension(WxHxD)		mm	1,345x335x430	1,345x335x430	
Net weight		kg	19.9	19.9	
Gross weight		kg	25	25	
Piping connections	L(flare)	mm	Φ9.53	Φ9.53	
	G(flare)	mm	Φ15.9	Φ15.9	
	Drain piping	mm	OD Φ16.5	OD Φ16.5	
Standard Controller		-	Wireless remote controller(RM05/BG(T)E-A)		

S type panel (60Hz)

Model		MDV-D22G/N1-S	MDV-D28G/N1-S	MDV-D36G/N1-S	MDV-D45G/N1-S	MDV-D56G/N1-S	
Power supply							
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	
	kcal/h	1,900	2,400	3,100	3,900	4,800	
	Btu/h	7,500	9,600	12,300	15,400	19,100	
Heating capacity	kW	2.4	3.2	4	5	6.3	
	kcal/h	2,100	2,800	3,400	4,300	5,400	
	Btu/h	8,200	10,900	13,600	17,100	21,500	
Power input	W	28	28	28	51	51	
		28	28	28	51	51	
Rated current	A	0.14	0.14	0.14	0.2	0.2	
		0.14+3.38	0.14+3.38	0.14+3.38	0.24+0.25	0.24+0.25	
Airflow rate(H/M/L)		m³/h	525/480/430	525/480/430	590/520/480	860/755/630	
		CFM	309/283/253	309/283/253	347/306/283	506/444/371	
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	
Refrigerant		Type	R410A				
		Control method	EXV				
Net dimension(WxHxD)		in.(mm)	36-1/32x9-1/16x11-13/32(915x230x290)			42-7/32 x9-1/16x12-13/32(1072x230x315)	
Packing dimension(WxHxD)		in.(mm)	40-5/32x12-13/32x15-1/32(1020x315x390)			46-15/32x12-13/32x16-11/32(1180x315x415)	
Net weight		lbs.(kg)	28.7(13)	28.7(13)	28.7(13)	33.4(15.1)	
Gross weight		lbs.(kg)	37.1(16.8)	37.1(16.8)	37.1(16.8)	43/19.5	
Piping connections	L(flare)	in.(mm)	Φ1/4(Φ6.35)	Φ1/4(Φ6.35)	Φ1/4(Φ6.35)	Φ3/8(Φ9.53)	
	G(flare)	in.(mm)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ5/8(Φ15.9)	
	Drain piping	in.(mm)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	
Standard Controller		-	Wireless remote controller (RM05/BG(T)E-A)				

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temp.: 80.6°F(27°C)DB, 66.2°F(19°C)WB, and outdoor temp.: 95°F(35°C)DB, equivalent ref. piping: 26.25ft(8m)(horizontal)

2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB, 42.8°F(6°C)WB, and equivalent ref. piping: 26.25ft(8m)(horizontal)

3. Sound level is measured 3.28ft(1m) below the air out-let both in horizontal and vertical distance.

* Specifications are subject to change without prior notice for product improvement.

S type panel (60Hz)

Model		MDV-D22G/DN1-S	MDV-D28G/DN1-S	MDV-D36G/DN1-S	MDV-D45G/DN1-S	MDV-D56G/DN1-S
Power supply		220~240V-1Ph-60Hz				
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
	kcal/h	1,900	2,400	3,100	3,900	4,800
	Btu/h	7,500	9,500	12,300	15,400	19,100
Heating capacity	kW	2.4+0.75	3.2+0.75	4+0.75	5+0.9	6.3+0.9
	kcal/h	2,100+600	2,800+600	3,400+600	4,300+800	5,400+800
	Btu/h	8,200+2,600	10,900+2,600	13,600+2,600	17,100+3,100	21,500+3,100
Power input	Cooling	W	28	28	28	51
	Heating		28	28	51	51
Rated current	Cooling	A	0.14	0.14	0.14	0.2
	Heating		0.14+3.38	0.14+3.38	0.14+3.38	0.20+4.05
Airflow rate(H/M/L)		m³/h	525/480/430	525/480/430	590/520/480	860/755/630
		CFM	309/283/253	309/283/253	347/306/283	506/444/371
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant	Type		R410A			
	Control method		EXV			
Net dimension(WxHxD)		in.(mm)	36-1/32x9-1/16x11-13/32(915x230x290)			42-7/32x9-1/16x12-13/32(1072x230x315)
Packing dimension(WxHxD)		in.(mm)	40-5/32x12-13/32x15-11/32(1020x315x390)			46-15/32x12-13/32x16-11/32(1180x315x415)
Net weight		lbs.(kg)	29.3(13.3)	29.3(13.3)	29.3(13.3)	34.2(15.5)
Gross weight		lbs.(kg)	37.7(17.1)	37.7(17.1)	37.7(17.1)	43.9(19.9)
Piping connections	L(flare)	in.(mm)	Φ1/4(Φ6.35)	Φ1/4(Φ6.35)	Φ1/4(Φ6.35)	Φ3/8(Φ9.53)
	G(flare)	in.(mm)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)
Standard Controller		-	Wireless remote controller (RM05/BG(T)E-A)			

C type panel (60Hz)

Model		MDV-D22G/N1YB	MDV-D28G/N1YB	MDV-D36G/N1YB	MDV-D45G/N1YB	MDV-D56G/N1YB
Power supply		220~240V~, 1Ph, 60Hz				
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
	kcal/h	1,900	2,400	3,100	3,900	4,800
	Btu/h	7,500	9,600	12,300	15,400	19,100
Heating capacity	kW	2.4	3.2	4	5	6.3
	kcal/h	2,200	2,800	3,400	4,300	5,400
	Btu/h	8,900	10,900	13,600	17,100	21,500
Power input	Cooling	W	28	28	28	45
	Heating		28	28	45	45
Rated current	Cooling	A	0.14	0.14	0.14	0.2
	Heating		0.14	0.14	0.14	0.2
Airflow rate(H/M/L)		m³/h	557/520/467	557/520/467	557/520/467	842/722/597
		CFM	328/306/275	328/306/275	328/306/275	496/425/351
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant	Type		R410A			
	Control method		EXV			
Net dimension(WxHxD)		in.(mm)	36-1/32x8-9/32x11-13/32(915x210x290)			42-7/32x8-9/32x12-13/32(1070x210x315)
Packing dimension(WxHxD)		in.(mm)	40-5/32x11-13/16x15-5/32(1020x300x385)			45-7/8x11-7/32x15-9/16(1165x285x395)
Net weight		lbs.(kg)	26.5(12)	26.5(12)	26.5(12)	33.1(15)
Gross weight		lbs.(kg)	38.6(17.5)	38.6(17.5)	38.6(17.5)	41.9(19)
Piping connections	L(flare)	in.(mm)	Φ1/4(Φ6.35)	Φ1/4(Φ6.35)	Φ1/4(Φ6.35)	Φ3/8(Φ9.53)
	G(flare)	in.(mm)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)
Standard Controller		-	Wireless remote controller (RM05/BG(T)E-A)			

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temp.: 27°CDB, 19°CWB, and outdoor temp.: 35°CDB, equivalent ref. piping: 8m (horizontal)

2. Nominal heating capacities are based on the following conditions: return air temp.: 20°CDB, outdoor temp.: 7°CDB, 6°CWB, and equivalent ref. Piping: 8m (horizontal)

3. Sound level is measured 1m below the air outlet horizontally and vertically.

* Specifications are subject to change without prior notice for product improvement.

C type panel (60Hz)

Model		MDV-D22G/DN1YB	MDV-D28G/DN1YB	MDV-D36G/DN1YB	MDV-D45G/DN1YB	MDV-D56G/DN1YB
Power supply		220-240V-, 1Ph, 60Hz				
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
	kcal/h	1,900	2,400	3,100	3,900	4,800
	Btu/h	7,500	9,600	12,300	15,400	19,100
Heating capacity	kW	2.4+0.75	3.2+0.75	4+0.75	5+0.9	6.3+0.9
	kcal/h	2,200+600	2,800+600	3,400+600	4,300+800	5,400+800
	Btu/h	8,900+2,600	10,900+2,600	13,600+2,600	17,100+3,100	21,500+3,100
Power input	Cooling	W	28	28	28	51
	Heating		28	28	51	51
Rated current	Cooling	A	0.14	0.14	0.14	0.2
	Heating		0.14+3.38	0.14+3.38	0.14+3.38	0.20+4.05
Airflow rate(H/M/L)		m³/h	557/520/467	557/520/467	557/520/467	842/722/597
		CFM	328/306/275	328/306/275	328/306/275	496/425/351
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	40/38/34	40/38/34
Refrigerant	Type		R410A			
	Control method		EXV			
Net dimension(WxHxD)		in.(mm)	36-1/32x8-9/32x11-13/32(915x210x290)			42-7/32x8-9/32x12-13/32(1070x210x315)
Packing dimension(WxHxD)		in.(mm)	40-5/32x11-13/16x15-5/32(1020x300x385)			45-7/8x11-7/32x15-9/16(1165x285x395)
Net weight		lbs.(kg)	26.5(12)	26.5(12)	26.5(12)	33.1(15)
Gross weight		lbs.(kg)	38.6(17.5)	38.6(17.5)	38.6(17.5)	41.9(19)
Piping connections	L(flare)	in.(mm)	Φ1/4(Φ6.35)	Φ1/4(Φ6.35)	Φ1/4(Φ6.35)	Φ3/8(Φ9.53)
	G(flare)	in.(mm)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)
Standard Controller		-	Wireless remote controller (RM05/BG(T)E-A)			

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temp.: 20.6°F(27°C)DB, 66.2°F(19°C)WB, and outdoor temp.: 95°F(35°C)DB, equivalent ref. piping: 26.25ft(8m)(horizontal)

2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB, 42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft(8m)(horizontal)

3. Sound level is measured 3.2ft(1m) below the air out-let both in horizontal and vertical distance.

* Specifications are subject to change without prior notice for product improvement.

R type panel (60Hz)

Model		MDV-D71G-R3/QN1Y	MDV-D80G-R3/QN1Y	MDV-D90G-R3/QN1Y
Power supply		1-phase, 220-240V, 60Hz		
Cooling capacity	kW	7.1	8	9
	kcal/h	6,100	6,900	7,700
	Btu/h	24,200	27,300	30,700
Heating capacity	kW	8	9	10
	kcal/h	6,900	7,700	8,600
	Btu/h	27,300	30,700	34,100
Power input	Cooling	W	79	95
	Heating		79	95
Rated current	Cooling	A	0.33	0.39
	Heating		0.33	0.39
Airflow rate(H/M/L)		m³/h	1,190/780/580	1,320/840/640
		CFM	700/459/341	776/494/376
Sound pressure level(H/M/L)		dB(A)	45/42/39	48/43/38
Refrigerant	Type		R410A	
	Control method		EXV	
Net dimension(WxHxD)		in.(mm)	49-7/32x9-41/64x12-51/64(1250x245x325)	
Packing dimension(WxHxD)		in.(mm)	52-61/64x13-3/16x16-59/64(1345x335x430)	
Net weight		lbs.(kg)	43.8 (19.9)	
Gross weight		lbs.(kg)	55.1 (25)	
Piping connections	L(flare)	in.(mm)	Φ3/8(Φ9.53)	
	G(flare)	in.(mm)	Φ5/8(Φ15.9)	
	Drain piping	in.(mm)	OD 21/32(Φ16.5)	
Standard Controller		-	Wireless remote controller (RM05/BG(T)E-A)	

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temp.: 80.6°F(27°C)DB, 66.2°F(19°C)WB, and outdoor temp.: 95°F(35°C)DB, equivalent ref.

piping: 26.25ft(8m)(horizontal)

2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB, 42.8°F(6°C)WB, and equivalent ref.

Piping: 26.25ft(8m)(horizontal)

3. Sound level is measured 3.2ft(1m) below the air out-let both in horizontal and vertical distance.

* Specifications are subject to change without prior notice for product improvement.

D type panel

Model		MDV-D22G /N1Y-11D5	MDV-D28G /N1Y-11D5	MDV-D36G /N1Y-11D5	MDV-D45G /N1Y-11D5	MDV-D56G /N1Y-11D5	MDV-D71G /N1Y-11D5	
Power supply								
			1-phase,220-240V,50Hz					
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	kcal/h	1900	2400	3100	3900	4800	6100	
Heating capacity	Btu/h	7500	9600	12300	15400	19100	24200	
	kW	2.4	3.2	4	5	6.3	8	
	kcal/h	2100	2800	3400	4300	5400	6900	
	Btu/h	8200	10900	13600	17100	21500	27300	
Rated input	Cooling	W	25	29.9	38.7	42.1	61.7	
	Heating		25	29.9	38.7	42.1	0.3	
Rated current	Cooling	A	0.13	0.15	0.18	0.21	61.7	
	Heating		0.13	0.15	0.18	0.21	0.3	
Airflow rate (H/M/L)	m³/h	367/295/263	491/403/341	576/419/360	724/511/436	1,056/883/741	1,182/842/702	
	CFM	216/174/155	289/237/201	339/247/212	426/301/257	622/520/436	696/496/413	
Sound pressure level(H/M/L)		dB(A)	33/31/28	33/31/28	33/31/28	38/36/32	38/36/32	
Refrigerant		Type	R410A					
		Control method	EXV					
Indoor Unit	Net dim.(WxHxD)	mm	680×180×255	770×190×255	770×190×255	905×205×275	1,030×220×315	1,030×220×315
	Gross dim.(WxHxD)		885×310×395	975×310×395	975×310×395	1,110×310×395	1,240×310×415	1,240×310×415
Piping connections	Net/Gross	kg	6.5/11.9	7.4/12.8	7.4/12.8	9.1/14.7	12.9/19.2	12.9/19.2
	L(Flare)	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
	G(Flare)	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Drain piping	mm	ODΦ16	ODΦ16	ODΦ16	ODΦ16	ODΦ16	ODΦ16
Standard Controller		Wireless remote controller (RM05/BG(T)-E-A)						

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, and outdoor temperature: 35°CDB, equivalent ref. piping: 8m (horizontal)

2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, and equivalent ref. piping: 8m (horizontal)

3. Sound level is measured 1m below the air outlet horizontally and vertically.

* Specifications are subject to change without prior notice for product improvement.

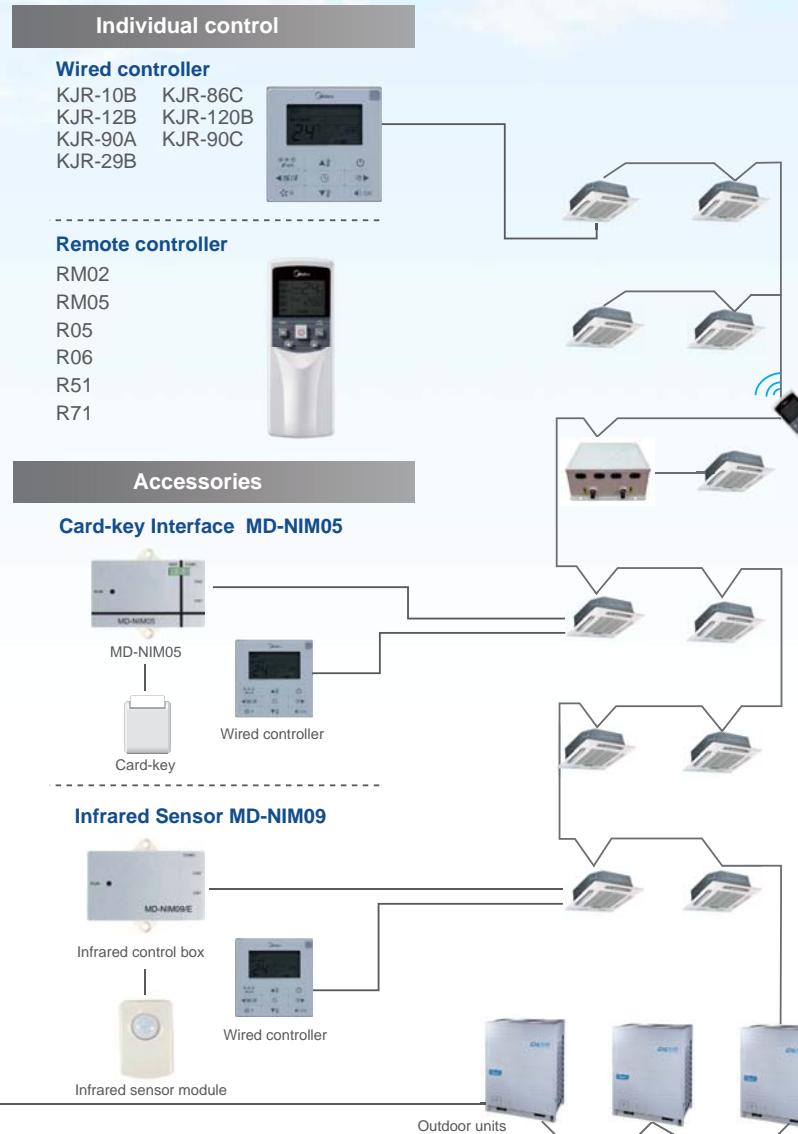
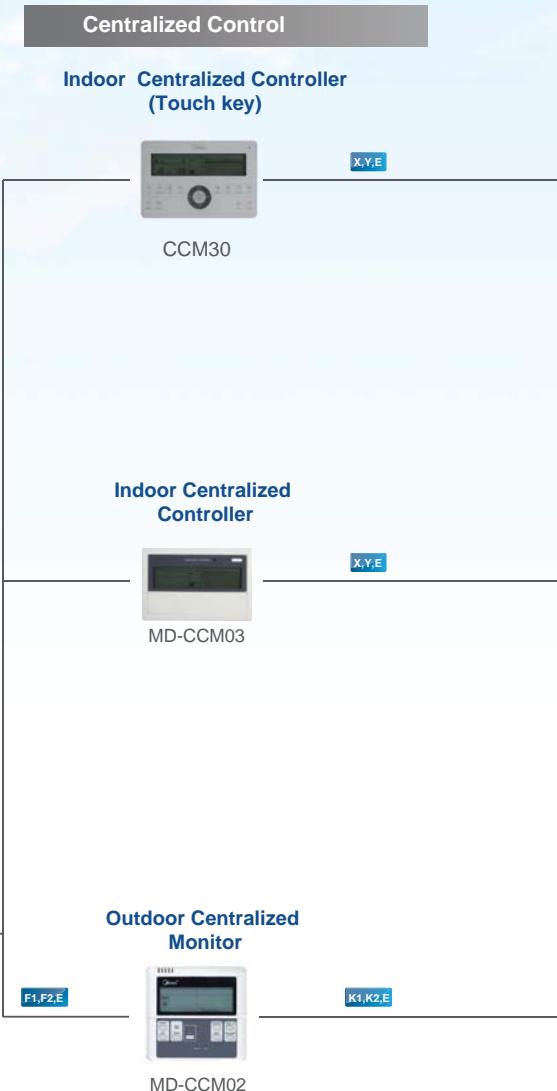
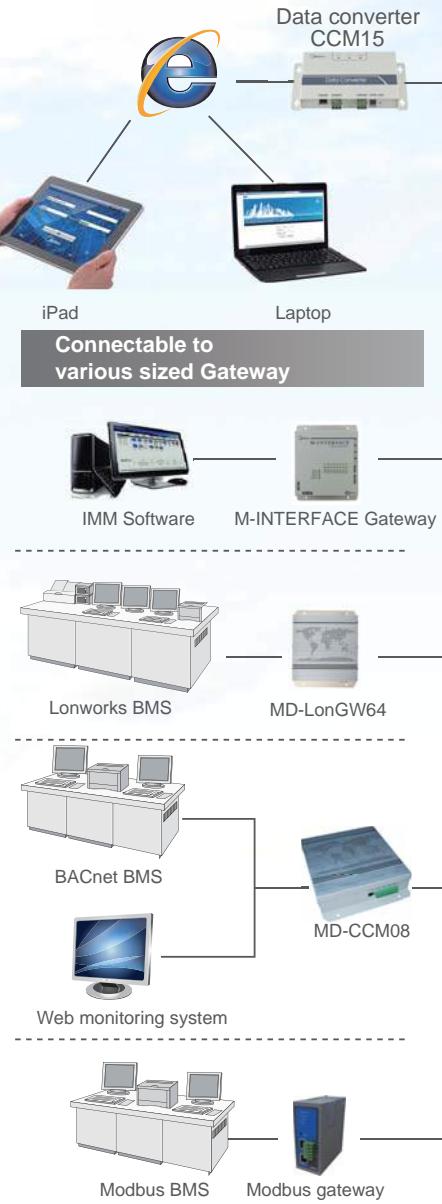


Control Systems →



Control Systems

Network Control



Note: The wires in the diagram show the signal flows only, while not represent the actual connecting ways.

Comparison of Controllers

Item	Remote controller			Wired Controller				Centralized Controller		
Model name	RM05/ RM02	R51/ R71	R05/ R06	KJR-10B /KJR-12B	KJR-120B	KJR-90A /KJR-86C	KJR-29B KJR-90C	CCM30/MD- CCM03	MD-CCM09	KJR- 120B
MAX. controllable IDU	/			1	1	1	1	64	64	16
A/C control function	On/Off	•	•	•	•	•	•	•	•	•
	Operation mode setting	•	•	•	•	•	•	•	•	•
	Fan speed setting	•	•	•	•	•	•	•	•	-
	Room temp. setting	•	•	•	•	•	•	•	•	-
	Vertical swing	•	•/-	•/-	-	-	-	-	-	-
	Horizontal swing	•	•	•	•	•	•/-	•	•	-
	Air direction	•/-	•/-	•	-	-	-	-	-	-
	Economic mode	•	•	•/-	•	•	-	-	-	-
	Central setting	-	-	-	-	-	-	•	•	•
	Keyboard lock	•	•/-	•	•	•	-	•	•	-
	Mode lock	-	-	-	-	-	-	•	•	-
	Remote signal receiving	-	-	-	-	-	•	-	-	-
	26°C shortcut setting	•/-	-	-	-	-	•/-	-	-	-
	Silent mode	-	-	-	-	-	-	•	-	-
Display	Backlight	•	•/-	•	•/-	•	•/-	•	•	•
	Current time	•/-	-	•	•/-	•	•/-	-	•	-
	RC prohibition	-	-	-	-	-	-	•	•	-
	Address	-	-	-	-	-	-	•	•	-
	Error code	-	-	-	-	•	-	•	•	-
	Room temp.	-	-	-	-	-	•/-	-	-	-
Timer	Period	-	-	-	-	-	-	-	Week	-
	On/Off per day	-	-	-	-	-	-	-	4	-
	On/Off per week	-	-	-	-	-	-	-	28	-
	On/Off timer	•	•	•	•	•	•/-	•	•	-
Control	FOLLOW ME	•/-	-	-	•/-	-	-	•	-	-
	Emergent stop	-	-	-	-	-	-	•	-	-
	Emergent start	-	-	-	-	-	-	•	-	-
	Address setting	•	-	-	-	-	-	•	-	-
	BMS access	-	-	-	-	-	-	•	-	-
	Control via internet	-	-	-	-	-	-	•	-	-
	Air filter cleaning reminding	-	-	-	•/-	•	-	•	•/-	-

● : Available controller functions

— : Not available controller functions

Wireless Remote Controller



Functions

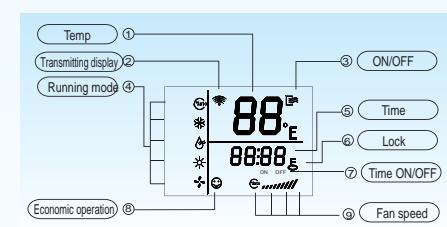
Portable device

The wireless remote controller is a portable control device that enables users to control the A/C anywhere within a distance of 11m.



Simplified user interface

Users can synchronize the air conditioners' parameters with the display panel on the wireless remote controller to precisely control a room's environment.



Background light

The background light allows users to operate the device in a dark room. The device lights up when a button is pressed, and turns off when a given operation is completed.



Built-in timer

The built-in daily timer offers the convenience of automatically starting and stopping the system at set times.

Setting addresses

Besides the machine's auto addressing function, users can set the indoor unit's address on the wireless remote controller RM05/RM02.



Model	RM02	RM05	R05	R06	R51	R71
Dimensions (HxWxD)(mm)	150x60x15	150x65x20	150x65x20	100x55x20	140x60x15	125x42x27
Power (V)				1.5V(LR03 AAA)x2		

Wired Controller



KJR-29B



KJR-90C

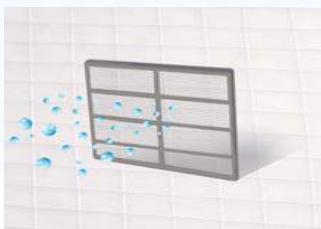


Functions

Air filter cleaning reminding

The wired controller records the total running time of the indoor unit. When the accumulated running time reaches the pre-set value, it will remind users need to clean the air filter of the indoor unit.

Clean the filter regularly can keep indoor air fresh and clean, good for your health.



*Available for KJR-10B/KJR-29B/KJR-90C model.

Silent mode

Under the cooling, heating and auto mode, when operate the silent mode, it can reduce the running noise through setting the fan speed to low. This will help you bring a quieter environment.



Remote signal receiving function

KJR-29B and KJR-90C provide a signal receiver for remote controller. Signal from remote controller can be received by a wired controller, then sent to the indoor unit and it conveniences to control.

Locking wired controller

The locking function can be used to prevent other people from using the controller.

Specifications

Model	29B	90C
Dimensions (HxWxD)(mm)	120x120x20	86x86x16.5
Power (V)	DC 5V	

Wired Controller



KJR-10B



KJR-12B



Functions

Follow me



With the FOLLOW ME function, the wired controller can detect the air temperature at the user's altitude instead that of the ceiling or floor. This helps making the room environment comfortable and the temperature accurate.

*The follow me function is available for KJR-12B/KJR-29B model.

Setting addresses

With the address setting function, and easy for the installation and future service. The service person can set the address for indoor unit by KJR-10B, KJR-29B and KJR-90C.



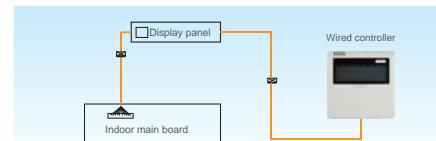
Built-in timer

Built-in daily timer offers the convenience of automatically starting and stopping the system at set times.



Easy connection

The wired controller conveniently connects to the indoor unit's display panel via connecting wire.



Specifications

Model	10B	12B
Dimensions (HxWxD)(mm)	120x120x15	120x120x15
Power (V)	DC 5V	

Wired Controller



KJR-90A



KJR-86C



KJR-120B

Functions

Features

- Small and easy to install
- Suitable for all types of indoor units
- Can be stored in a mounting cabinet

Built-in timer

Built-in daily timer offers the convenience of automatically starting and stopping the system at set times.



KJR-90A



KJR-120B

Mode setting

Mode-button hidden controller: Press the temperature buttons "▲" and "▼" simultaneously for 3 seconds to select the operation mode: COOL and HEAT. The design is suitable for hotels, hospitals, schools and other similar types of buildings.

Auto mode

For V4 plus R series used only. Under the auto mode of V4 plus R system, it can automatically switch to COOL or HEAT mode according to the temperature difference value between Tf(indoor temperature) and Ts(setting temperature)

Specifications

Model	90A	86C	120B
Dimensions (H×W×D)(mm)	90×86×13	86×86×18	120×120×20
Power (V)	DC 5V		

Wired Controller

HRV Wired Controller

KJR-27B



Functions

HRV controller

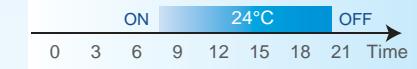
KJR-27B is individually designed for HRV—Heat Recovery Ventilator. The HRV can work in the following modes: exhaust, air supply, bypass, heat exchange, and auto.

**AUTO->HEAT EXCHANGE->
EXHAUST->BYPASS->AIR SUPPLY**

Built-in timer

Built-in daily timer offers the convenience of automatically starting and stopping the HRV at the set times.

Setup screen example
Set to wednesday: 8:00 to 20:00



■ Specifications

Model	KJR-27B	
Dimensions(H×W×D)(mm)	120×120×15	
Power (V)	198-242V(50/60Hz)	

Weekly Schedule Controller

MD-CCM04



Functions

Simple design

MD-CCM04 can be used as a weekly schedule wired controller or general wired controller. It can query the indoor temperature and the setting parameters of the weekly schedule. It can display the error codes and running state of the indoor unit. With the LCD backlight, and allows users to operation the device in a dark room.

Delay function

The function is specially designed for a person who is working overtime. During the weekly schedule running, press delay button it will delay 1hour or 2 hours to turn off the air conditioner.

Weekly schedule

Users can set up to 4 periods schedule per day, and select the desired running mode and room temperature.

	8:00	16:00	23:59
Sun	28°C	22°C	24°C
Mon	26°C	22°C	17°C
Tue	26°C	22°C	17°C
Wed	26°C	22°C	17°C
Thu	26°C	22°C	23°C
Fri	26°C	22°C	26°C
Sat	28°C	off	24°C

■ Specifications

Model	MD-CCM04	
Dimensions (H×W×D)(mm)	120×120×15	
Power (V)	DC 5V	

Centralized Controller

Indoor Centralized Controller



MD-CCM03



CCM30



Functions

Centralized control

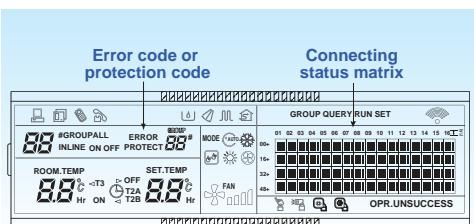
The centralized controller is a multifunctional device that can control up to 64 indoor units within a maximum connection length of 1,200m.

The device connects to the master outdoor units of Midea's newly designed products to simplify and centralize the wiring configuration. The two connection modes are as follows:



Indoor unit working status display

The centralized controller displays indoor units' working status and error codes so users can easily identify faults via checking the error codes table in the user's manual before contacting a service engineer.



Air filter cleaning reminding function

The air filter cleaning reminder function is only available on the touch-key central controller CCM30. The "FL" icon indicates that the air filter in a given indoor unit needs cleaning.



CCM30

Functions

Stylish design

CCM's stylish design suits high-end environments. The keyboard lock function is used to prevent operational mistakes.



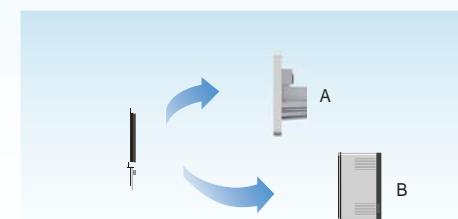
Single/unified control

The control object can be either a single unit or all units, which vastly simplifies the control process. Operation signal feedback ensures that all units are working in the correct mode.



Easy installation

Centralized controller offers two different appearances to mostly suit the installation. The A structure must be embedded into the wall and the B structure doesn't need. Both of them are easy to operate.



*The A,B structure is available for CCM30, and MD-CCM03 only has B structure



B structure leading-out mode sketch

Access to network monitoring

The centralized controller is able to bridge up to 64 indoor units on the network monitoring and building management systems.



Specifications

Model	MD-CCM03	CCM30
Dimensions (H*W*D)(mm)	179x119x74	180x122x78 and 180x122x68
Power (V)	198-242V(50/60Hz)	

Centralized Controller

Weekly Schedule Centralized Controller

MD-CCM09



Functions

Weekly schedule

MD-CCM09 can include up to 64 indoor units in the weekly schedule. Users can set up to 4 periods per day, and select the desired running mode and room temperature. The operating object can be a single indoor unit or all the indoor units.

	8:00	16:00	23:59
Sun	28°C	22°C	24°C
Mon	26°C	22°C	17°C
Tue	26°C	22°C	17°C
Wed	26°C	22°C	23°C
Thu	26°C	22°C	26°C
Fri	26°C	22°C	26°C
Sat	28°C	off	24°C

Three lock modes

Centralized controller MD-CCM09 provides a superior way to manage the indoor units. Users are able to make their own choice from locking the wireless controller, locking the running mode or lock the MD-CCM09's keyboard as they wish.

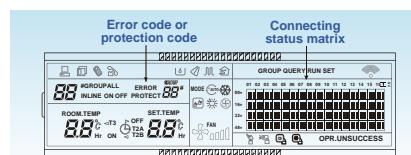
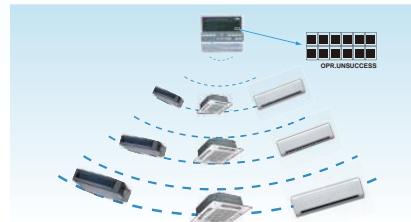


Indoor unit working status display

MD-CCM09 displays indoor units' working status and error codes so users can easily identify faults via checking the error codes table in the user's manual before contacting a service engineer.

Single/unified control mode

The control object can be either a single unit or all units, which vastly simplifies the control process. Operation signal feedback ensures that all units are working in the correct mode.



Specifications

Model	MD-CCM09
Dimensions (H*W*D)(mm)	179x119x74
Power (V)	198-242V(50/60Hz)

Centralized Controller

Unified On/Off Controller

KJR-90B

Unified controller design with graceful appearance and explicit panel.



Functions

Unified control

KJR-90B offers on/off and heating/cooling functionality for indoor units based on preset temperatures to ensure easy management.



Centralized control

KJR-90B can be used to centrally control up to 16 indoor units.



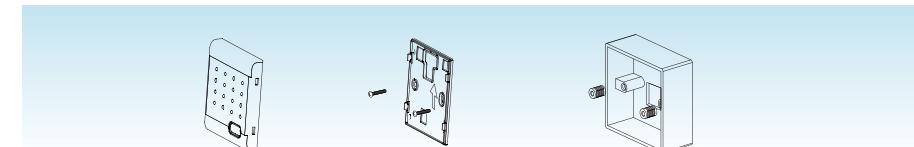
Light indicator

The LEDs on KJR-90B indicate the indoor units' running status for easy fault detection. The lights switch off automatically to save energy once a given operation is complete. The indicators are as follows:

Light	Blue	Red	Flash
Single On/Off key	Cooling/Fan	Heating	IDU Error
Unified On/Off key			EEPROM Error

Easy installation

KJR-90B can be easily mounted on the built-in cabinet:



Specifications

Model	KJR-90B
Dimensions (H*W*D)(mm)	90x86x8
Power (V)	DC 5V

Centralized Monitor Outdoor Centralized Monitor

MD-CCM02

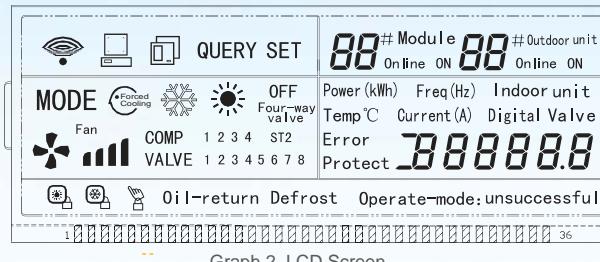


- With the ODU communication
- With the PC communication
- Protection/Error codes
- Power consumption
- Forced Cooling

Functions

ODU parameters display

MD-CCM02 enables users to easily check outdoor units' running status, including frequency, temperature, current, pressure, protection codes and error codes.



Control system

Access to network monitoring

MD-CCM02 can connect up to 8 refrigerant systems and 32 outdoor units to the network system.



■ Specifications

Model	MD-CCM02
Dimensions(HxWxD)(mm)	120x120x15
Power (V)	198-242V(50/60Hz)

Central Control Software



Central Control Software

IMM(Intelligent Manager of Midea) 4th Generation Network Control System

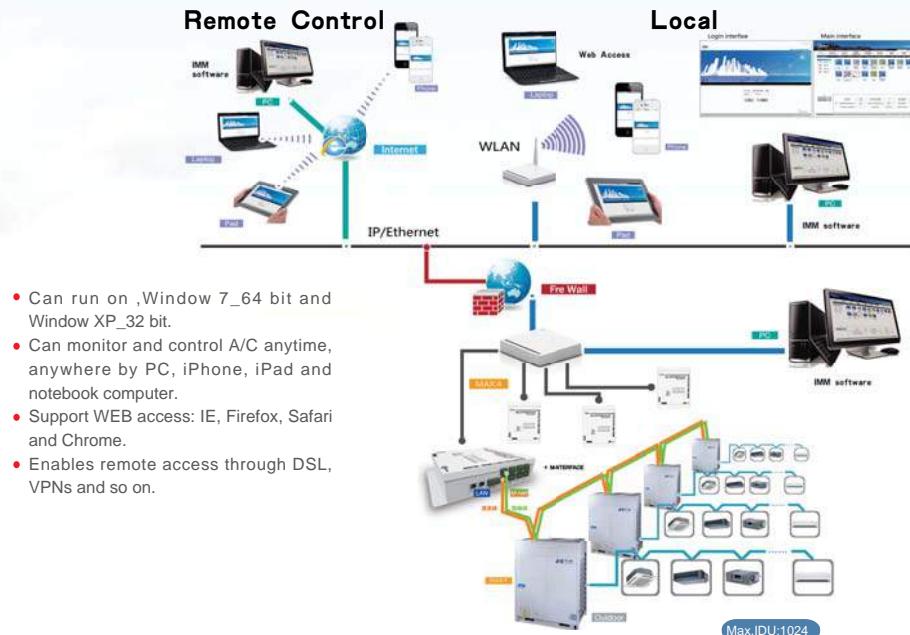


Functions

Intelligent Manager of Midea, designed specifically to control VRF systems, is based on a centralized format and dedicated to the complete control and monitoring of all the system's functions. It can be used as a flexible multi-purpose system and applied to a variety of needs, according to the scale, purpose and control method of each building.

- Up to 4 M-interfaces, 64 refrigerant systems, 1,024 indoor units, and 256 outdoor units can be controlled by one PC.
- Web Access
- User friendly operation
- Central building monitoring and control
- Energy saving management
- SMS modem (optional)
- Electricity charge distribution
- Annual schedule control
- Low-load operation indicate
- Generate operational history reports (daily, weekly, monthly)
- Fault display & Warning message
- Filter replacement reminder
- Emergency stop and Alarm signal output

Network Control Application



Various Managements



Simple Operation and Management

Click & Operate, a user-friendly interface allows even non-experts to perform the building management system easily.

Data Management

Operational information of individual indoor units are monitored, allowing for distribution of power consumption at outdoor units.

Stores operation data on multiple systems and displays it in graphical format for visual management.

Uses IMM software to generate tenant reports and help building owners bill for energy use.

Electricity Charge Distribution(Patented)

Provides information on proportional electrical power distribution to optimize electricity consumption management.

Uses software to calculate electric power proportional distribution, output and save electricity consumption data for each indoor unit (or group) which is connected to the intelligent manager. Applies the patented Midea Calculation Method to calculate consumption rates according to capacity demand which is based on various parameters: setting temperature, room temperature, running mode, rated HP, public areas, unused rooms, and nighttime use; outputs this information on a charge calculation sheet to evenly divide power consumption charges among tenants.

Highlights



Web Access function

With the web access function, a PC, laptop computer or a smart phone can be used as a remote controller.



Visual Navigation

Clicking the jump button will display a list of all available screens. Clicking the back button will return to the previous screen.



Energy Saving Management

Based on a predetermined schedule, the Intelligent Manager executes capacity control and intermittent operations on all air conditioning units to maintain a high comfort index.



Data Backup

The M-interface will automatically back up data on the installed SD card (2GB) in case system failure occurs, such as: power failure or system dam. IMM software also stores the previous 3 months' operational data on the HDD.



Schedule Control

Automatically performs facility start/stop control, switches the operating mode, sets temperatures and enables/disables the remote control according to the present time schedule. 4 sections and 20 actions per day for each single unit or group.



Multiple Languages

Provides seven language settings:

English
Russian

French
German

Italian
Spanish



Warning Message

The system can receive error messages from air conditioning units in more than one buildings or structures via public phone lines.

*Requires the Midea "SMS Modem" to send automatic warning messages to designated phone numbers.



Electricity Charge Distribution

Electricity charges can be easily divided when billing users for air conditioning power charges; for example, for tenants in a commercial building, offices in a rented building, or rooms in a hotel.

Accessories

Data converter

CCM15

- Can realize data conversion between TCP/IP protocol and 485 protocol.
- WEB function realizes VRF system's webpage access.
- User can monitor and query the air conditioners through LAN and WAN.
- Providing the TCP / IP port for VRF system of Midea to achieve WEB/HTTP/TCP/IP access.
- Can remotely control the A/C systems through computer, iPhone, iPad or other intelligent terminals.



Network example

- Can be directly connected with XYE port of the indoor units.
- Up to connect 64 indoor units.
- CCM03/CCM30 is optional and can be connected with CCM15 through F1, F2 and E ports.
- The system consisting of A/C system, data converter CCM15, router, cloud server and control terminal.



Simply control interface

- Software control/ Cloud server control (WEB access).
- Click & operate, a user-friendly interface.
- Allows signal and group control.
- Simplified user control interface.
- Colour indication and icon makes it easy to recognize unit state.
- Can full screen display and the temperature can be adjusted by fingers' sliding.



Weekly schedule control

- With weekly schedule function for iPad.
- Multiple sections in each day for single unit or group.
- Automatically performs facility start/stop control, operating mode, setting temperatures and according to the present time schedule.



Web features

- Query and control single unit or group.
- Weekly schedule setting: can set multiple sections in each day for single unit or group.
- Group user control : a user can use the same ID to manage hundreds of CCM15, when selecting the "As group user" button on the login page.
- History error: easy service and management with history error function.

Intelligent control

- The air conditioner remote control can be realized by mobile phone or tablet computer.
- You can query the running state of the air conditioner any time and anywhere and even make an appointment in advance.
- Can remotely turn off the air conditioner to avoid power waste, when you are in a hurry to leave.



Accessories

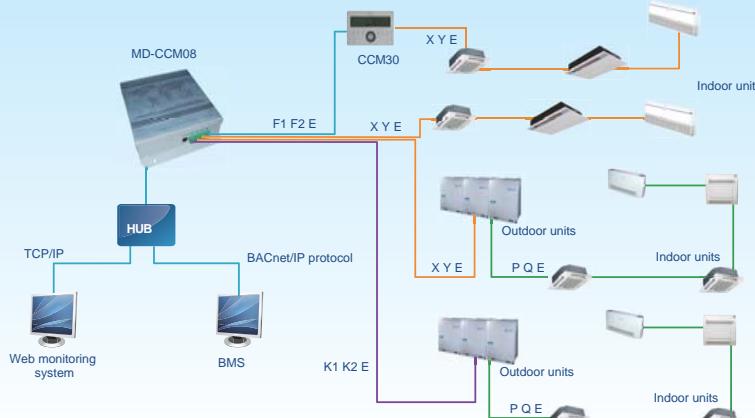
BACnet® BMS Gateway

MD-CCM08

Contains 4 groups of RS485 communication ports and be able to connect up to 256 indoor units or 128 outdoor units to the BMS. Be free to connect to the BMS or not.



Network example



Monitoring units online

MD-CCM08 allows users to track units' operational status and change their running parameters on Internet Explorer for maximum control convenience

Wide compatibility

CCM08 has a wonderful adaptability to the BMS

	Company	BMS software	Brand
1	SIMENS	APOGEE	
2	TRANE	Tracer Summit	
3	Honeywell	Alerton	
4	Schneider	Andover	
5	Johnson	METASYS	

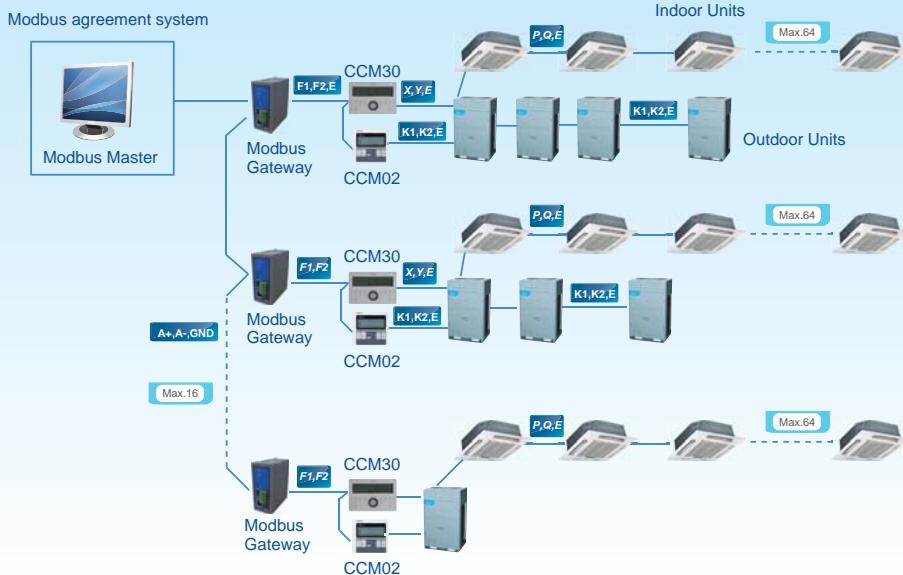
Accessories

Modbus BMS Gateway

Supports Modbus protocol networks
Bridges the Midea central A/C system and the BMS
Establishes a Modbus network comprising up to 1,024 indoor units and 64 outdoor units
Transfers data in RTU mode
Provides a wide voltage range: 12-48V DC



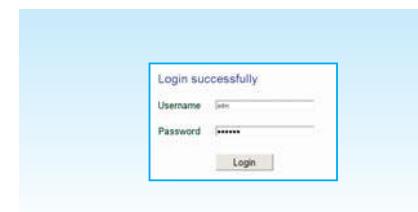
Network example



One Modbus gateway can bridge one refrigerant system with a PC or the Modbus master.

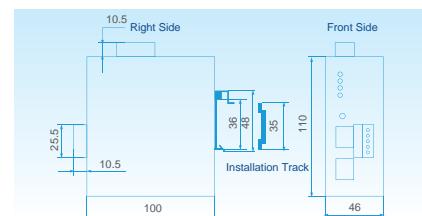
Config A/C System via Web

When the Modbus network is set, users can conveniently configure their A/C network system over the Internet using different TCP/IP browsers.



Dimensions

The Modbus Gateway is designed with a small size. It's equipped a installation track for the easy on-site installation.



Accessories

LonWorks® BMS Gateway

MD-LonGW64

Compliance with LonMark protocol, and realizes the management and control of A/C. Can connect up to 64 indoor units to the BMS.

Realizes non-polarity communication, and also the application can be download online.

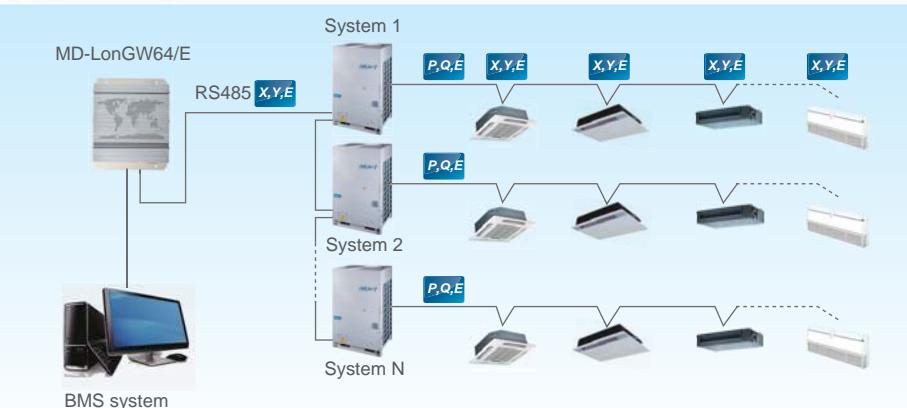


Network example

Connection method 1: Suitable for all of air conditioner systems and connect max.64 indoor units.



Connection method 2: Only suitable for V4 plus system and connect max.64 indoor units.



■ Specifications

Model	MD-LonGW64
Dimensions (H*W*D)(mm)	31.9x25.1x6.1
Power (V)	177~265V AC(50Hz/60Hz)

Accessories

3-Phase Protector

HWUA/DPB71CM48

Detect the power condition and make the corresponding protecting action.

Protect the compressor from being damaged.

Automatically distinguish the abnormal power supply conditions and automatically recover.



HWUA DPB71CM48

Excellent reliability

The protector protects the entire system from power supply problems, and auto restart after recovery.

Specifications

Model	With over/under voltage function				Without over/under voltage function
	HWUA	DPA53CM23	HWUA	DPB71CM48	DPA51CM44
Power supply (V-N-Hz)	220~480V-3N 50/60Hz	208~480V-3N 50/60Hz	220~480V-3N 50/60Hz	380~480V-3N 50/60Hz	208~480V-3N 50/60Hz
Temp. range (°C)	-20°C~50°C 50Hz: -20°C~60°C 60Hz: -20°C~50°C	-20°C~50°C	-20°C~50°C	-20°C~50°C	50Hz: -20°C~60°C 60Hz: -20°C~50°C
Rated operational power(VA)	2.9 VA	7 VA	2.9 VA	13 VA	13 VA
Over voltage	12%	12%	18%	18%	
Under voltage	-12%	-12%	-12%	-12%	
Phase imbalance	8%	/	8%	8%	
Dimensions(WxHxD)(mm)	90x69x35	81x67.2x17.5	90x69x35	81x67x35	81x67.2x17.5

Digital Power Ammeter

DTS634/DTS636

Calculates power consumption.

Does not need adjusting after long-term use.

Corresponds one outdoor unit to one digital power meter.



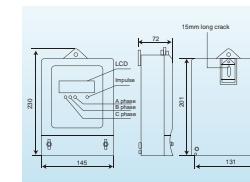
Low power consumption

The digital power meter consumes minimal energy.

Voltage circuit: less than 2W/10VA

Current circuit: less than 2.5VA

Indications and installation



The digital power meter is tested after manufacture so it can be immediately deployment and used on-site. The LED indicators and installation schematic are shown in the figure on the left.

■ Specifications

Model	DTS634/DTS636
Dimensions (H*W*D)(mm)	230x145x72
Power (V)	200V-500V(50/60Hz)

Remote Alarm Controller KJR-32B



Functions

Simple design

KJR-32B is specially designed for engineering applications. It does not display the ODU's working parameters, but it can connect to the alarm device when ODU is working abnormally, the RUN light will flash.

■ Specifications

Model	KJR-32B
Dimensions (H*W*D)(mm)	150x85x70
Power (V)	198-242V(50/60Hz)

Indoor Unit Group Controller KJR-150A

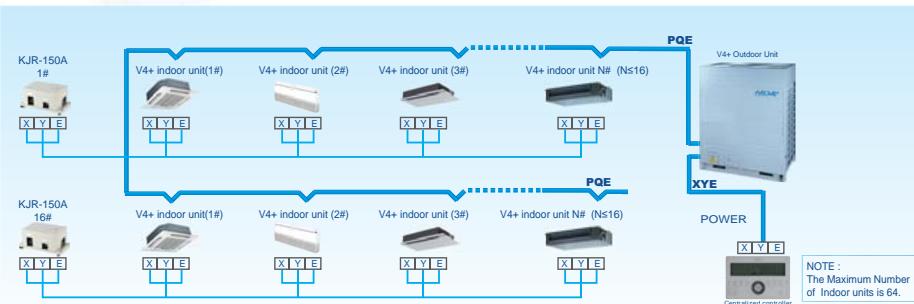


Functions

Simple design

KJR-150A is specially designed for V4 plus indoor units. A group controller can connect up to 16 V4 plus indoor units through X1, Y1 and E terminals, but it cannot directly connect to the central controller. If you need to use a central controller or a PC, you can connect to the XYE from an outdoor unit. A group controller can control a group of indoor units simultaneously, and query the running status of each unit in the group via the display panel.

System wiring diagram



■ Specifications

Model	KJR-150A
Dimensions (H*W*D)(mm)	150x85x70
Power (V)	198-242V(50/60Hz)

Accessories

Infrared sensor controller

MD-NIM09

Automatically adjust the room environment.

Automatically extend the shutting down time, avoiding frequent ON/OFF.

Graceful appearance accommodates itself to different buildings.



Installation example

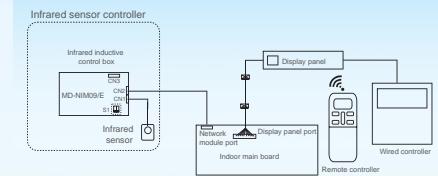


Remote controller or wired controller can control indoor unit.

■ Specifications

Model	MD-NIM09
Dimensions(HxWxD)(mm)	Senor part: 46x30x25.6, Control box: 86x72.8x15.5
Power	DC 5V

Electrical wiring



Hotel Card Key Interface Module MD-NIM05

MD-NIM05

Cooperate with the wired controller to automate control.

Eliminates the need for high voltage power, making the device safe and steady.

Includes a build-in auto-restart function.

Remote controller or wired controller can control indoor unit.

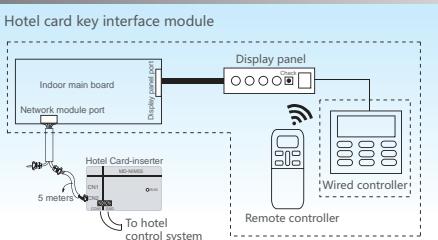


Control system

Installation example



Electrical wiring



■ Specifications

Model	MD-NIM05
Dimensions (H*W*D)(mm)	86x72.8x15.5
Power (V)	DC 5V

Accessories

AHU Control Box

AHUKZ-01A/AHUKZ-02A/AHUKZ-03A

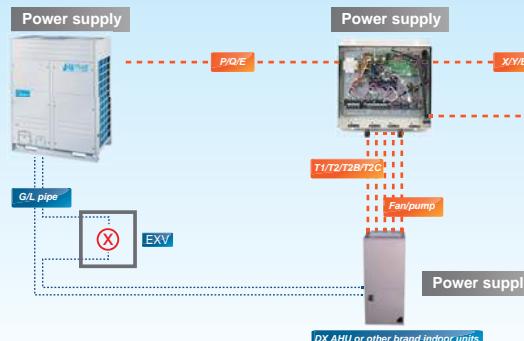
V4+ functions inside.

Can be used to connect VRF outdoor units with DX AHU or other brand indoor units



Introduction

AHUKZ-01A/AHUKZ-02A/AHUKZ-03A is an independent control box that can connect a AHU to V4 plus system to realize centralized control with V4 plus system. Control box wiring is as follows:



■ Specifications

Model	AHUKZ-01A/AHUKZ-02A/AHUKZ-03A
Dimensions(HxWxD)(mm)	335x375x150
Power (V)	220-240V~ 50Hz 208-230V~ 60Hz

Midea Outdoor Unit Diagnosis Software MCAC-DIAG/E

Display the outdoor units' real-time running conditions.

Automatically outputs running status charts.

Supports V3, V4, V4+, D3, D4 outdoor units.



Wiring diagram

The diagnostic software applies to K1, K2, E of the outdoor units. The corresponding wiring diagram is shown in the figure on the right.



■ Recommended config

Operating system	WIN XP SP4/WIN 7
CPU	Pentium 4 2G or above
HDD	30G free space
Interface port	RS-232 terminal

Selection software

To meet consultants' and distributors' requirements, Midea has developed an advanced design automation tool that can be used in AutoCAD-based CAD version or Windows-based Sales version. The software provides quick and convenient selectable options for users, supports multiple languages, and greatly improves the selection process.

Windows Version

Load calculation: Provides two calculation methods (detailed room load calculation and rough load calculation).

Indoor & outdoor units selection: There are versatile indoor units and different outdoor units for choosing.

Piping drawing: Displays the detailed layout of an A/C system and the parameters for piping and branch distributors.

Controller selection: Provides a selection of controllers for indoor units and outdoor units, including wireless and remote controllers for indoor units.

Report output: Outputs a comprehensive selection report as a Word or PDF document.



CAD Version

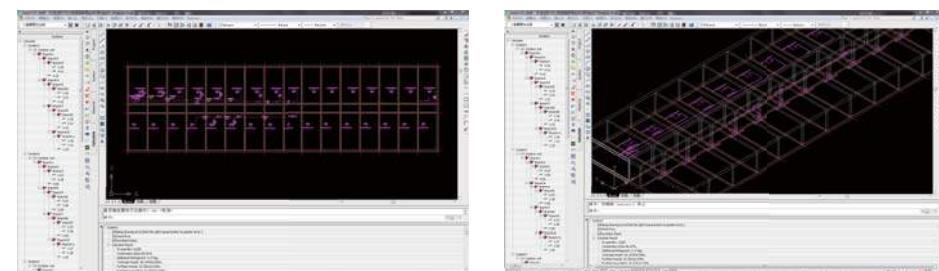
AutoCAD add-on software

Automatic Calculation: Refrigerant & drain pipe size

Automatic Selection: Distributor kit & branch joint

System Check: Installation regulation & refrigerant addition

Automatic Report: Piping installation diagram, equipment list & quotation



HRV

Heat recovery ventilator

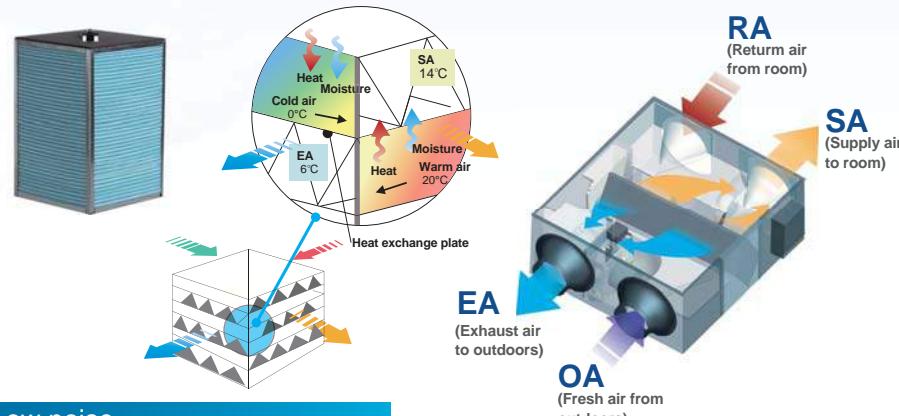
**Larger air supply rate
enhanced heat exchange efficiency
enhanced energy saving property**

The heat recovery ventilator (HRV) can reclaim heat energy lost through ventilation and reduce the room temperature fluctuation caused by ventilation process. By utilizing the most advanced technology and technics, Midea HRV has extremely good performance. The heat exchanged core is made of special paper processed with chemical treatment, which could realize better temperature and humidity control of the room environment. Temperature exchange efficiency is above 65% and enthalpy exchange efficiency between 50-65%.



Model Names

HRV-200	HRV-500
HRV-300	HRV-800
HRV-400	HRV-1000

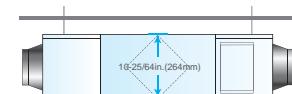


Low noise

Sound proof material is used to guarantee quiet operation.

Compact design, flexible installation and easy maintenance

With a min. height of only 10-25/64in.(264mm) and 50lbs (23kg) weight, the unit provides best convenience and possibility for installation in limited spaces.

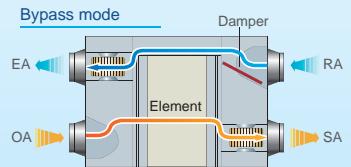
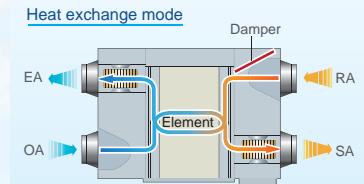


Multi-modes for different situations

Heat exchange mode

When air flow formed by the fans goes through the heat exchanged core in cross way, due to temperature difference between two channels of the core, thermal transmission happens naturally.

In summer days, high temperature outdoor air gets cooled by indoor exhaust air; in winter, low temperature outdoor air gets heated by indoor exhaust air. So the energy contained in exhaust air can be reclaimed and energy efficiency gets improved.



Bypass mode

In mild climate areas or seasons, when temperature and humidity level difference between indoor and outdoor is small, the unit works as conventional ventilation fan. Both supply fan and exhaust fan works at the same speed (Hi/mid/low/auto).

Air supply mode

It is one kind of bypass mode with air supply fan speed higher than exhaust fan speed. It can be used in mild climate area where large amount fresh air is needed.

Exhaust air mode

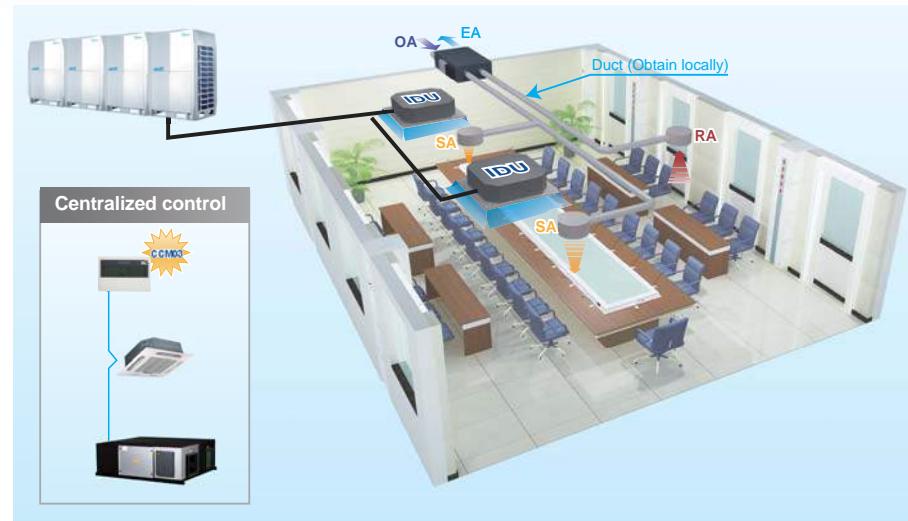
It is also one kind of bypass mode with exhaust fan speed higher than air supply fan speed. It can be used in mild climate area where large amount exhaust air needs to be expelled.

Auto mode

The controller chooses heat exchange mode or bypass mode according to the temperature difference between outdoor and indoor temperature. Both the two fans work at low speed.

Flexible control

Interlocking control with other indoor units by controller is possible.



Specifications

Model		HRV-200	HRV-300	HRV-400	HRV-500				
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50 (220/1/60)					
Temperature exchange efficiency (%)	High	%	65	65	65				
	Medium	%	65	65	65				
	Low	%	70	70	70				
Enthalpy exchange efficiency (%)	For cooling	High	%	50	50				
	For cooling	Medium	%	50	50				
	For heating	Low	%	55	55				
	For heating	High	%	55	60				
Sound pressure level	Heat exchange mode	High	dB(A)	27	30				
	Heat exchange mode	Medium	dB(A)	26	29				
	Heat exchange mode	Low	dB(A)	20	23				
	Bypass mode	High	dB(A)	28	31				
Net dimension (WxDxH)	Medium	dB(A)	27	30	33				
	Medium	dB(A)	27	32	35				
	Low	dB(A)	22	25	27				
mm		866x655x264	944x722x270	944x927x270	1038x1026x270				
inch		34-1/8x25-3/4x10-3/8	37-3/16x	37-3/16x36-1/2x10-5/8	40-7/8x40-3/8x10-5/8				
Packing size (WxDxH)		mm	930x730x445	1010x800x450	1010x1010x450				
inch		36-5/8x28-3/4x17-1/2	39-3/4x31-1/2x17-3/4	39-3/4x39-3/4x17-3/4	44-1/8x44-1/8x17-13/16				
Net/gross weight		kg(lbs)	23/40(50.6/88)	26/44(57.2/96.8)	31/52(68.3/114.4)				
Casing					41/64(90.4/140.8)				
Galvanized steel plate									
Heat exchange system									
Air to air cross flow total heat (sensible heat + latent heat) exchange									
Heat exchange element material									
Specially processed nonflammable paper									
Fan	Type	Centrifugal fan							
	Airflow rate	High	m³/h(CFM)	200	300				
		Medium	m³/h(CFM)	200	300				
		Low	m³/h(CFM)	150	225				
ESP	High	Pa	75	75	80				
	Medium	Pa	58	60	65				
	Low	Pa	35	40	43				
	Motor output	W	20	40	80				
Duct diameter	mm(in.)	Φ144(5-11/16)	Φ144(5-11/16)	Φ144(5-11/16)	Φ194(7-5/8)				
Operating temperature range		°C	-7~43 DB, 80% RH or less						
°F			19.4~109.4 DB, 80% RH or less						
Model		HRV-800	HRV-1000	HRV-1500	HRV-2000				
Power supply		V/Ph/Hz	220-240/1/50 (220/1/60)	380/3/50 (280/3/60)					
Temperature exchange efficiency (%)	High	%	65	65	65				
	Medium	%	65	/	/				
	Low	%	70	70	/				
Enthalpy exchange efficiency (%)	For cooling	High	%	50	50				
	For cooling	Medium	%	50	/				
	For heating	Low	%	55	/				
	For heating	High	%	60	60				
Sound pressure level	Heat exchange mode	High	dB(A)	39	40				
	Heat exchange mode	Medium	dB(A)	38	39				
	Heat exchange mode	Low	dB(A)	32	33				
	Bypass mode	High	dB(A)	40	41				
Net dimension (WxDxH)	Medium	dB(A)	39	40	/				
	Medium	dB(A)	39	/	/				
	Low	dB(A)	34	35	/				
mm		1286x1006x388	1286x1256x388	1600x1270x540	1650x1470x540				
inch		50-5/8x39-5/8x15-1/4	50-5/8x49-7/16x15-1/4	63x50x21-1/4	65x57-7/8x21-1/4				
Packing size (WxDxH)		mm	1380x1100x573	1390x1350x580	1680x1350x720				
inch		54-5/16x43-5/16x22-9/16	54-3/4x53-1/8x22-13/16	66-1/8x53-1/8x28-3/8	69-5/16x62-3/16x28-3/8				
Net/gross weight		kg(lbs)	62/88(136.7/193.6)	79/110(173.8/242)	163/224(358.6/492.8)				
Casing	Galvanized steel plate								
Heat exchange system		Air to air cross flow total heat (sensible heat + latent heat) exchange							
Heat exchange element material									
Specially processed nonflammable paper									
Fan	Type	Centrifugal fan							
	Airflow rate	High	m³/h(CFM)	800(471.1)	1000(588.2)				
		Medium	m³/h(CFM)	800(471.1)	1000(588.2)				
		Low	m³/h(CFM)	600(353.4)	750(441.2)				
ESP	High	Pa	100	100	160				
	Medium	Pa	82	85	/				
	Low	Pa	54	58	/				
	Motor output	W	360	360	450				
Duct diameter	mm(in.)	Φ242(9-1/2)	Φ242(9-1/2)	346x326(13-5/8x12-7/8)	346x326(13-5/8x12-7/8)				
Operating temperature range		°C	-7~43 DB, 80% RH or less						
°F			19.4~109.4 DB, 80% RH or less						

Note:

1. For the units model of HRV (400-1000), there are 3-speed adjustable air volume (Hi, Med, Low), but for the units model of HRV (1500-2000), there are only 1-speed which cannot be adjusted.

2. Sound level is measured at 1.4m below the center of the body in an anechoic chamber.

3. Temperature Exchange Efficiency is the mean value between cooling and heating.

4. Efficiency is measured under the following conditions:

* Cooling Condition: Air Exhaust Temp. 27°C(80.6°F) DB, 19.5°C(67.1°F) WB., Fresh Air Temp. 35°C(95°F) DB, 28°C(82.4°F) WB.

* Heating Condition: Air Exhaust Temp. 21°C(69.8°F) DB, 13°C(55.4°F) WB., Fresh Air Temp. 5°C(41°F) DB, 2°C(35.6°F) WB.



Branch pipes

Model	Appearance	Model name	Packing Size (mm)/ Gross Weight (kg)	Description
		FQZHW-02N1D	255x150x185/1.5	For two outdoor units connection
		FQZHW-03N1D	345x160x285/3.4	For three outdoor units connection
		FQZHW-04N1D	475x165x300/4.8	For four outdoor units connection
Branch joint for R410A indoor unit		FQZHN-01D	290x105x100/0.4	A*<16.6kW
		FQZHN-02D	290x105x100/0.6	16.6≤A*<33kW
		FQZHN-03D	310x130x125/0.9	33kW≤A*<66kW
		FQZHN-04D	350x180x170/1.5	66kW≤A*<92kW
		FQZHN-05D	365x195x215/1.9	92kW≤A*

A*:The total capacity of indoor units following this branch joint

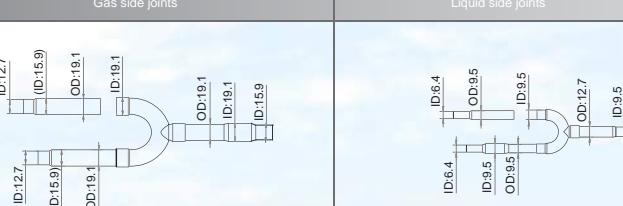
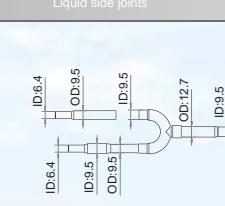
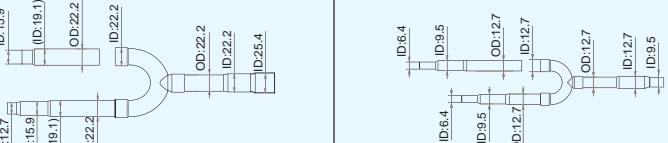
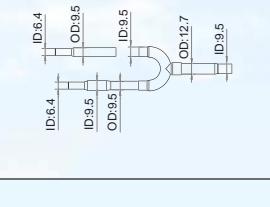
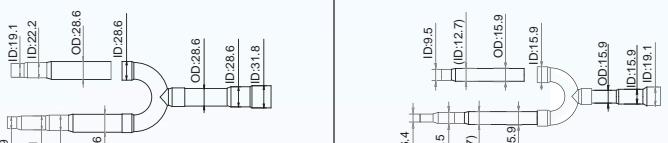
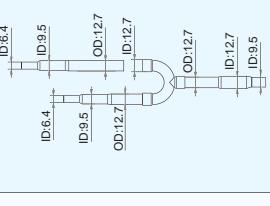
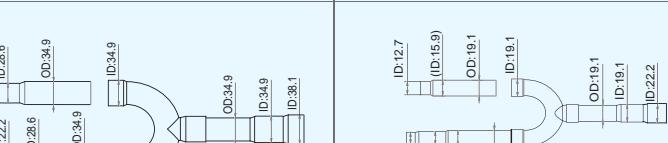
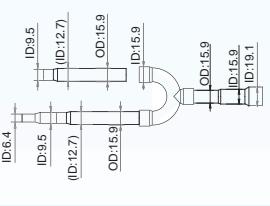
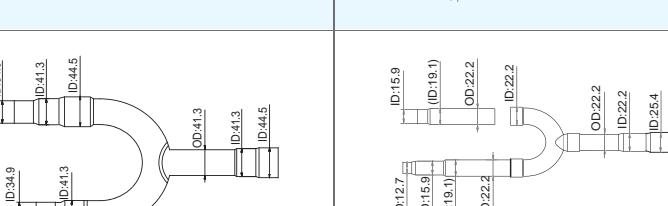
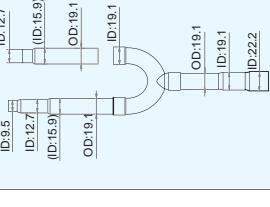
Dimensions

Outdoor branch pipes

Branch model	Gas side joints		Liquid side joints
FQZHW-02N1D	<p>0D:31.8 ID:25.4 Q1 ID:31.8 ID:25.4 0D:31.8</p> <p>0D:31.8 ID:25.4 Q2 ID:31.8 ID:34.9 Q4 ID:31.8 ID:34.9 0D:34.9</p> <p>0D:34.9 Q3 ID:38.1 ID:34.9</p>	<p>0D:15.9 ID:12.7 Y1 ID:15.9 ID:12.7 0D:15.9</p> <p>0D:15.9 ID:12.7 Y2 ID:19.1 ID:19.1 0D:19.1</p> <p>0D:15.9 Y6 ID:15.9 ID:19.1 0D:19.1</p> <p>0D:15.9 Y3 ID:22.2</p>	
FQZHW-03N1D	<p>0D:31.8 ID:25.4 Q1 ID:31.8 ID:25.4 0D:31.8</p> <p>0D:31.8 ID:25.4 Q2 ID:31.8 ID:34.9 Q7 ID:31.8 ID:34.9 0D:34.9</p> <p>0D:38.1 ID:41.3 Q5 ID:31.8 ID:31.8 0D:31.8</p>	<p>0D:15.9 ID:12.7 Y1 ID:15.9 ID:12.7 0D:15.9</p> <p>0D:15.9 ID:12.7 Y2 ID:19.1 ID:19.1 0D:19.1</p> <p>0D:15.9 Y6 ID:15.9 ID:15.9 0D:15.9</p> <p>0D:19.1 ID:22.2 0D:22.2 Y7 ID:15.9 ID:15.9 0D:15.9</p> <p>0D:19.1 ID:19.1 Y4 ID:19.1</p>	
FQZHW-04N1D	<p>0D:31.8 ID:25.4 Q1 ID:31.8 ID:25.4 0D:31.8</p> <p>0D:31.8 ID:25.4 Q2 ID:31.8 ID:34.9 Q7 ID:31.8 ID:34.9 0D:34.9</p> <p>0D:38.1 ID:41.3 Q5 ID:31.8 ID:31.8 0D:31.8</p> <p>0D:41.3 ID:44.5 Q6 ID:44.5 ID:44.5 0D:44.5</p>	<p>0D:15.9 ID:12.7 Y1 ID:15.9 ID:12.7 0D:15.9</p> <p>0D:15.9 ID:12.7 Y2 ID:19.1 ID:19.1 0D:19.1</p> <p>0D:15.9 Y6 ID:15.9 ID:15.9 0D:15.9</p> <p>0D:19.1 ID:22.2 0D:22.2 Y7 ID:15.9 ID:15.9 0D:15.9</p> <p>0D:22.2 ID:25.4 0D:25.4 Y8 ID:15.9 ID:15.9 0D:15.9</p> <p>0D:22.2 ID:25.4 Y5 ID:22.2</p>	

Dimensions

Indoor branch pipes

Branch model	Gas side joints	Liquid side joints
FQZHN-01D		
FQZHN-02D		
FQZHN-03D		
FQZHN-04D		
FQZHN-05D		

Memo