



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.

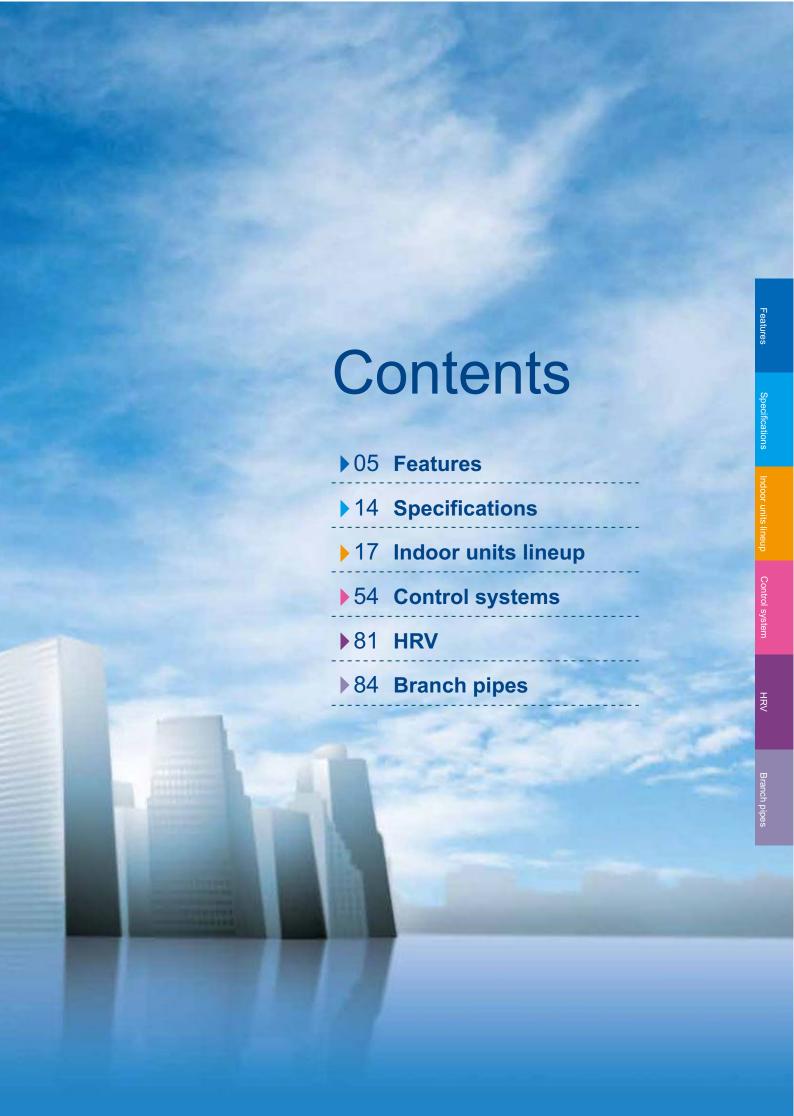


- 2014 Launched the All DC Inverter V5X globally
- 2013 Launched the super high efficiency centrifugal chiller with full falling film technology
- 2011 Launched the DC Inverter V4 Plus globally
- 2010 Built the 3rd manufacturing base in Hefei
- 2007 Won the first Midea centrifugal chiller project oversea
- 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.





Features

Wide Application Range

Large capacity for big sized building

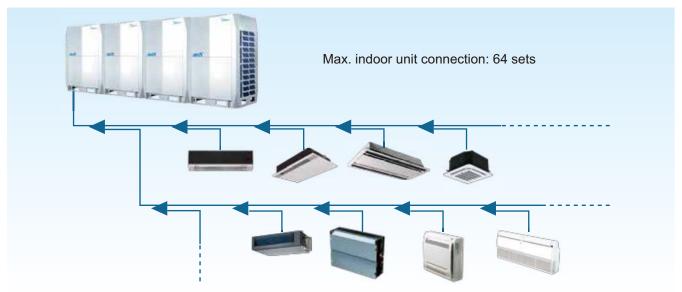
The outdoor units capacity range from 8HP up to 88HP in 2HP increment, max. combination of 4 basic models.



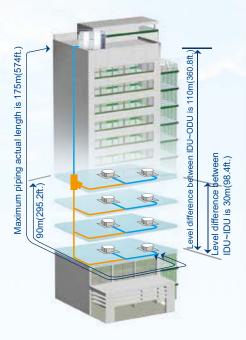


Wide choices of locations

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 1,000 m (3280ft.) and level difference of 110m(360.8ft.), making it perfect for large projects.

			Permitte	ed value
	Total pipe length*(A	1000	3280	
Piping length	Maximum piping(L)	Actual length	175	574
	waxiiiuiii pipiiig(L)	Equivalent length	200	656
	Piping (From the first to the farthest IDU)	40/90*	131.2/295.2*	
	Level difference	Outdoor unit up	90	295.2
Level difference	between IDU~ODU	Outdoor unit down	110	360.8
	Level difference bet	30	98.4	

^{*}Total pipe length is equal to two times — pipe length plus — 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.

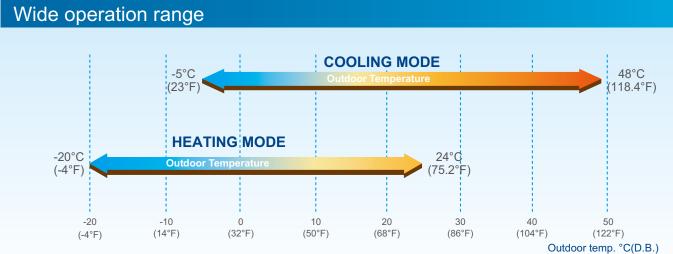
High external static pressure

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

Midea now offers up to 60Pa(0.24"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 60Pa(0.24"W.G.).





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

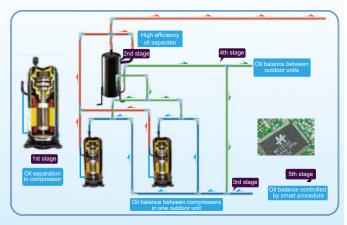
In a multiple system, when the master unit failed, any single unit can be set as the master unit, then the remaining units can keep on working. This can be set on PCB by DIP switches at site.



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



Ground protection



Current



Phase sequence protection



Fan motor Temp.



Default phase protection



Compressor overload protection



High-voltage protection



Compressor Temp.



Low-voltage protection



Pressure protection

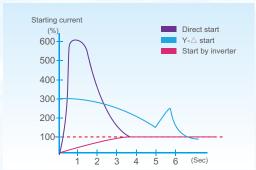


Enhanced Comfort

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 inveter 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.

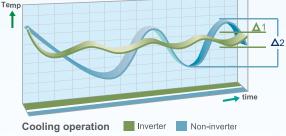
Comparison of start by inverter and by traditional methods



Quick warm-up and cool-down design

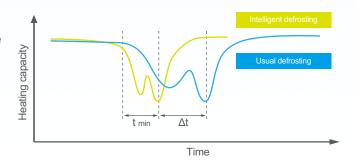
By utilizing the benefits of all DC inverter compressors, the system can reach full load quickly and shorten the warm-up and cool-down times to provide an immediate and comfortable air solution. Less temperature fluctuation will create a better living environment.

Fluctuation of room temperature



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

5 operation modes to be chosen:

- Heating priority mode (default)
- Cooling priority mode
- Heating only mode
- Cooling only mode
- VIP or Voting priority mode (No. 63 IDU or majority requirement priority)



Heating priority (default)







Cooling only

Vote priority







Cooling priority

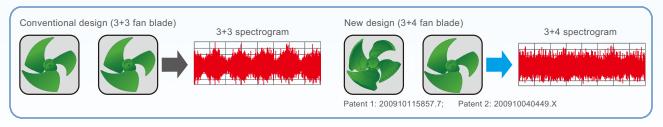
Heating only

VIP priority

Advanced silence technology

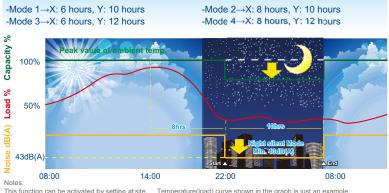


3+4 fan blade, patent design



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.



This function can be activated by setting at site. Temperature(load) curve shown in the graph is just an example

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.

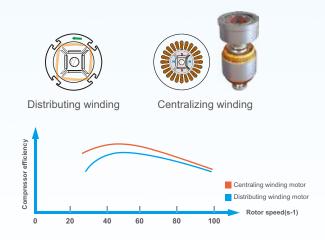
High EER and COP values





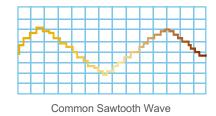
High efficiency DC inverter compressor

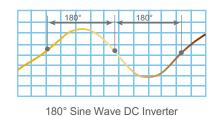




Smooth 180°sine wave DC inverter

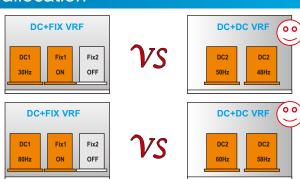
Smooth the rotation of the compressor motor, improve the compressor operation efficiency sharply. Effectively control the harmonic current and electromagnetic noise, and fully pass the international EMC test.





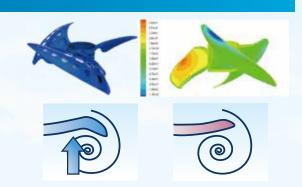
All DC inverter compressor, auto energy allocation

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.



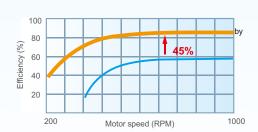
DC fan motor

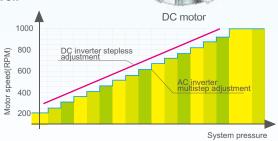
According to the running load and pressure, it controls the speed of DC fan to achieve the minimum power consumption.

■ Used across entire range of models (from 8 to 64 HP).

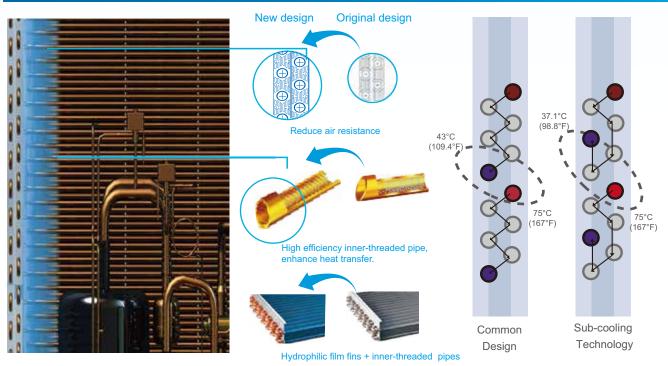
■ Efficiency improvement up to 45% especially at low speed.

■ Wide speed adjustment with 18 steps vetor 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.

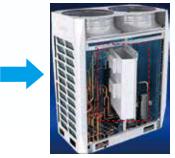


Outdoor unit can distribute addresses for indoor unit automatically. Wireless and wired controllers can query and modify each indoor unit's address.

Rotatable electric control box

- The newly designed rotating control box is so excellent that it can rotate in maxmum 150 degree. 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.





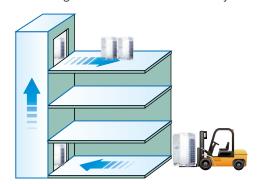
360° pipe connection

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.



Outdoor units' lineup

		No. of Outdoor unit combination				Max. Qty. of	Сарас	city kW					
Model	HP	compressors	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	indoor unit	Cooling	Heating
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	64	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	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	188
MV5-X1730W/V2GN1	62	6						1		2	64	173	194
MV5-X1790W/V2GN1	64	6							1	2	64	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	64	240.5	270
MV5-X2460W/V2GN1	88	8								4	64	246	276

Notes

1. Capacities are based on the following conditions:

Cooling: Indoor temperature $27^{\circ}\text{C}(80.6^{\circ}\text{F})$ DB/19 $^{\circ}\text{C}(66.2^{\circ}\text{F})$ WB; Outdoor temperature $35^{\circ}\text{C}(95^{\circ}\text{F})$ DB/24 $^{\circ}\text{C}(75.2^{\circ}\text{F})$ WB Heating: Indoor temperature $20^{\circ}\text{C}(68^{\circ}\text{F})$ DB/15 $^{\circ}\text{C}(59^{\circ}\text{F})$ WB; Outdoor temperature $7^{\circ}\text{C}(44.6^{\circ}\text{F})$ DB/6 $^{\circ}\text{C}(42.8^{\circ}\text{F})$ WB

- 2. Piping length: Interconnecting piping length is 7.5m, level difference is zero.
- 3. The above combination models are factory-recommended models.



Outdoor specifications

Model			MV5-X252W/V2GN1	MV5-X280W/V2GN1		MV5-X400W/V2GN1				
Power source		V-Ph-Hz		380~415V 3	N 50Hz/60Hz					
	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				
Cooling		kcal/h	21,672	24,080	28,810	34,400				
	Power input	kW	5.79	7.02	8.71	10.81				
-	EER	kW/kW	4.35	3.99	3.85	3.70				
	Capacity	kW	27.0	31.5	37.5	45.0				
		RT	7.7	8.9	10.7	12.8				
Le a Cara		kBtu/h	92.1	107.5	128.0	153.5				
leating		kcal/h	23,220	27,090	32,250	38,700				
-	Power input	kW	5.79	7.19	8.82	10.98				
-	COP	kW/kW	4.66	4.38	4.25	4.10				
	Total capacity	%	50-130	50-130	50-130	50-130				
	Max. quantity	/	13	16	20	23				
Sound pressure leve		dB(A)	43~58	43~59	43~60	43~62				
	Liquid pipe	in.(mm)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)				
ripe	Gas pipe	in.(mm)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)	Φ1(Φ25.4)	Φ1/2(Φ12.7)				
onnections +	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1(Φ25.4)	· · · · · · · · · · · · · · · · · · ·				
	Туре	()	DC motor	DC motor	DC motor	Φ1/4(Φ6)				
	Quantity		1	1	1	DC motor				
	Quantity	m3/h			<u> </u>	2				
an motor	Air flow rate	CFM	12,000	12,000	12,000	14,000				
-	Matanandani	W	7,060	7,060 465	7,060 465	8,240				
	Motor output	in.WG(Pa)	100			290+230				
	ESP	in.WG(Pa)	0~0.08(0~20) (default) 0.08~0.24(20~60) (customized)							
	O = = 1:t	111.VVO(1 a)	4	`	, , , , , , , , , , , , , , , , , , , ,					
_	Quantity	kW	1	1	1	2				
	Capacity	kBtu/h	21.06	21.06	23.25	13.8×2				
OC inverter			71.9	71.9	79.3	47.1×2				
omprossor	Crankcase heater	W	27.6×2	27.6×2	27.6×2	27.6×4				
	Oil type	1.7.1	FVC68D	FVC68D	FVC68D	FVC68D				
	Oil charge	gal.(ml)	0.132(500)	0.132(500)	0.132(500)	0.132 (500) ×2				
Keniyerani	Туре		R410A	R410A	R410A	R410A				
	Factory charging	lbs.(kg)	20(9)	20(9)	24(11)	29(13)				
Design pressure (High	gh/Low)	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				
let dimension (W×I	H×D)	inch		39×64-3/8×31-1/8		52-3/4×64-3/8×31-1/8				
		mm		990×1635×790		1340×1635×790				
Packing size (W×H×D)		inch		41-1/2×71-1/16×33-5/8		55-3/8×71-1/16×33-5/8				
- '		mm		1055×1805×855		1405×1805×855				
let weight		lbs.(kg)	483(219)	483(219)	523(237)	655(297)				
Gross weight Ibs.(kg) 516(234)			516(234) 556(252) 695(315)							
Operating	Cooling	°F(°C)	23~118.4(-5~48)							
temperature range	Heating	°F(°C)	-4~75.2(-20~24)							

Notes:

. 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.

 $^{{\}it 1. Capacities \ are \ based \ on \ the \ following \ conditions:}$

^{2.} Connection 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					
Power source		V-Ph-Hz		380~415V 3	N 50Hz/60Hz				
C	Capacity	kW	45.0	50.0	56.0	61.5			
		RT	12.8	14.3	16.0	17.6			
0 "		kBtu/h	153.5	170.6	191.1	209.8			
Cooling		kcal/h	38,700	43,000	48,160	52,890			
F	Power input	kW	12.83	14.47	16.67	18.77			
E	ER	kW/kW	3.51	3.46	3.36	3.28			
C	Capacity	kW	50.0	56.0	63.0	69.0			
		RT	14.2	16.0	18.0	19.7			
Heating		kBtu/h	170.6	191.1	214.9	235.4			
leating		kcal/h	43,000	48,160	54,180	59,340			
F	Power input	kW	12.47	14.15	15.98	17.86			
	COP	kW/kW	4.01	3.96	3.94	3.86			
Connectable T	otal capacity	%	50-130	50-130	50-130	50-130			
	Max. quantity		26	29	33	36			
Sound pressure level	. 4	dB(A)	43~62	43~63	43~63	43~63			
	iquid pipe	in.(mm)	Φ1/2(Φ12.7)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)			
Pipe	Gas pipe	in.(mm)	Ф1-1/8(Ф28.6)	Ф1-1/8(Ф28.6)	Ф1-1/8(Ф28.6)	Ф1-1/8(Ф28.6)			
connections –	Oil balance pipe	in.(mm)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)	Φ1/4(Φ6)			
Туре		(/	DC motor	DC motor	DC motor	DC motor			
(Quantity		2	2	2	2			
	Rudifility	m3/h	14,000	16,000	16,000	16,000			
an motor	Air flow rate	CFM	8,240	9,410	9,410	9,410			
<u></u>	Notor output	W	290+230	420+350	440+350	440+350			
TV.	notor output	in.WG(Pa)	290+230	440+350					
E	SP	in.WG(Pa)	0~0.08(0~20) (default) 0.08~0.24(20~60) (customized)						
	Quantity		2	2	2	2			
	zuantity	kW	13.8×2	_	_	23.25×2			
	Capacity	kBtu/h	47.1×2	11.8+23.25 40.3+79.3	23.25×2 79.3×2	79.3×2			
OC inverter	Crankcase heater	W							
-	Dil type	**	27.6×4	27.6×4	27.6×4	27.6×4			
_	Dil type Dil charge	gal.(ml)	FVC68D	FVC68D	FVC68D	FVC68D			
		gan(mi)	0.132 (500) ×2	0.132(500)×2	0.132(500)×2	0.132(500)×2			
keingerani –	ype actory charging	lbs.(kg)	R410A	R410A	R410A	R410A			
	-actory charging		29(13)	29(13)	35(16)	35(16)			
Design pressure (Hig	h/Low)	psi MPa	640/380	640/380	640/380	640/380			
			4.4/2.6	4.4/2.6	4.4/2.6	4.4/2.6			
let dimension (W×H	×D)	inch		52-3/4×64-3/8×31-1/8 1340×1635×790					
		mm							
Packing size (W×H×	D)	inch		55-3/8×71-1					
letelet		mm			805×855 750(340)				
let weight		lbs.(kg)	,			750(340)			
Gross weight Ibs.(kg)									
	Cooling	°F(°C)							
temperature range H	leating	°F(°C)	-4~75.2(-20~24)						

Notes

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.

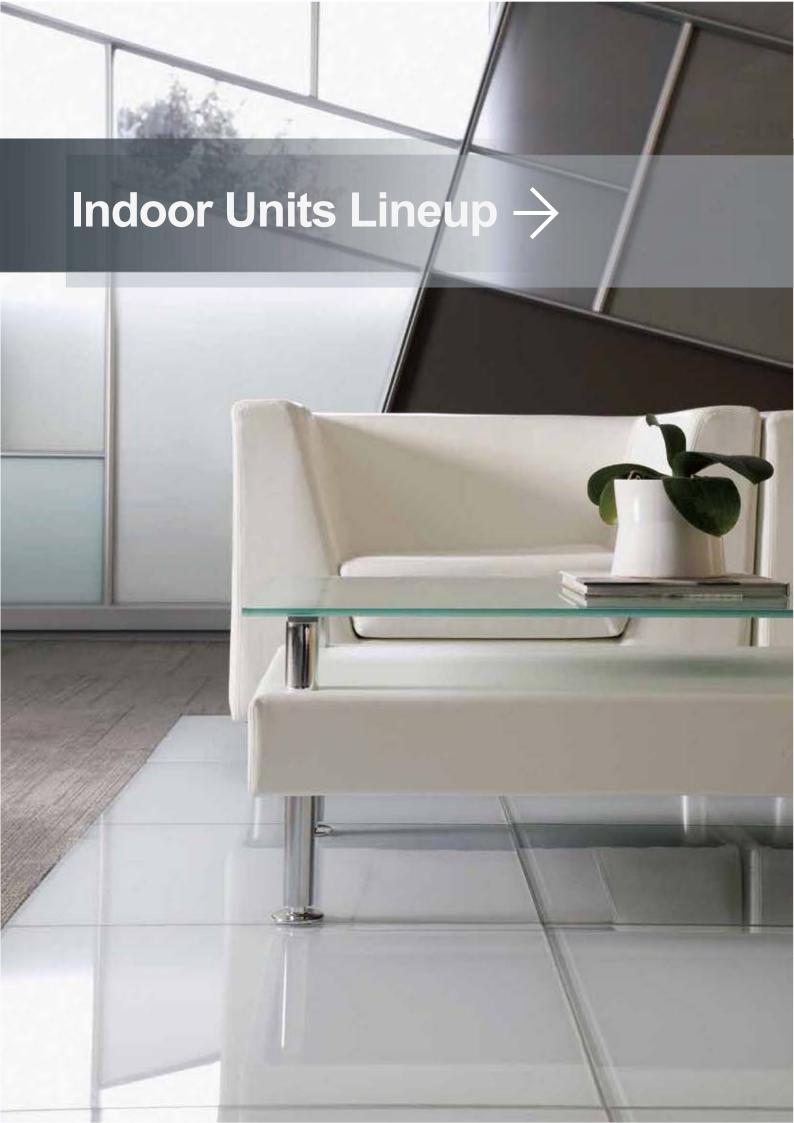
Piping length: Interconnecting piping length is 7.5m, level difference is zero.

^{1.} Capacities are based on the following conditions:

^{2.} Connection 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

- →One-way Cassette
- →Two-way Cassette
- → Compact Four-way Cassette
- →Four-way Cassette
- →Low Static Pressure Duct
- → Concealed Duct Unit(A5 Type)
- → High Static Pressure Duct
- → Ceiling & Floor
- → Wall-mounted
- →Floor Standing
- → Console
- → Fresh Air Processing Unit



Туре	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1	8.0	
One-way Cassette										
One-way Cassette							•			
Two-way Cassette				•						
Compact Four-way Cassette										
Four-way Cassette										
Low Static Pressure Duct										
Concealed Duct Unit										
(A5 Type)										
High Static Pressure Duct										
Thigh State Tressure Duct										
Ceiling & Floor										
Wall-mounted										
Floor Standing										
Console										
Fresh Air Processing Unit	619									
Treat Air Frocessing offic										

More than 100 models are available to meet varied customer requirements.



9.0	10.0	11.2	12.5	14.0	16.0	20.0	25.0	28.0		
I .	I .			I	I		<u> </u>	<u> </u>	<u> </u>	



One-way Cassette



Auto

Auto Restart



Fresh Air



Auto Addressing



Cleanable Panel



Follow Me



Anti-Cold Air Function



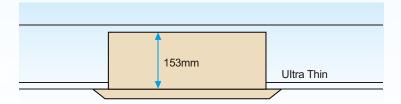
LED Display



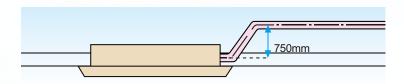
Built-in Drain Pump

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.

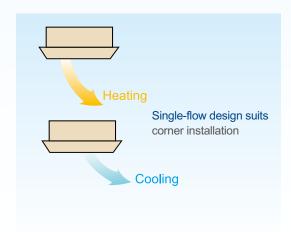


Standard built-in drain pump with 750mm pump head.



Auto swing

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

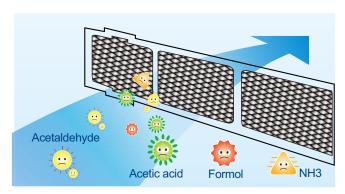


Fresh air, improved air quality

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.



Model			MDV-D18Q1 /N1-D	MDV-D22Q1 /N1-D	MDV-D28Q1 /N1-D	MDV-D36Q1 /N1-D	MDV-D45Q1 /N1-C			
Power supply					1-phase,2	20-240V,50Hz				
		kW	1.8	2.2	2.8	3.6	4.5	5.6		
Cooling capacity		kcal/h	1500	1900	2400	3100	3900	4800		
		Btu/h	6100	7500	9600	12300	15400	19100		
		kW	2.2	2.6	3.2	4	5	6.3		
Heating capacity		kcal/h	1900	2200	2800	3400	4300	5400		
		Btu/h	7500	8900	10900	13600	17100	21500		
Cooling		10/	41	41	41	41	80	85		
Rated input	Heating	W	41	41	41	41	80	85		
D 1 1 1	Cooling		0.24	0.24	0.25	0.25	0.37	0.39		
Rated current	Heating	Α	0.24	0.24	0.25	0.25	0.37	0.39		
		m³/h	523/404/275	523/404/275	573/456/315	573/456/315	704/630/503	860/810/702		
Airflow rate(H/M/L)		CFM	308/238/162	308/238/162	337/268/185	337/268/185	414/370/296	506/476/413		
Sound pressure lev	el(H/M/L)	dB(A)	37/34/30	38/34/30	39/37/34	40/38/34	41/39/35	42/40/36		
D-f-it		Туре	R410A							
Refrigerant		Control method	EXV							
	Net dim.(W×H×D)	mm		1054×1	69×425		1147×2	200×640		
Indoor Unit	Gross dim.(W×H×D)	111111		1155×2	45×490		1380×2	265×775		
	Net/Gross weight	kg	12.5	/16	13/1	6.5	31.5/	37.2		
	Net dim.(W×H×D)		1180×3	36.5×465	1180×3	36.5×465	1425×	10×755		
Panel	Gross dim.(W×H×D)	mm	1232×1	07×517	1232×1	07×517	1500×1	10×870		
	Net/Gross weight	kg	3.5/5	5.2	3.5/	5.2	9/1	2		
	L(flare)	mm	Ф6.:	35	Ф6.	35	Ф6.35	Ф9.53		
Piping connections	G(flare)	mm	Ф12	2.7	Ф12	2.7	Ф12.7	Ф15.9		
	Drain piping	mm	OD (Ф25	OD	Ф25	OD Φ25			
Standard controller			Wireless remote controller RM05/BG(T)E-A/E)							

60Hz Specifications

Model			MDV-D18Q1 /VN1-D	MDV-D22Q1 /VN1-D	MDV-D28Q1 /VN1-D	MDV-D36Q1 /VN1-D	MDV-D45Q1 /N1-C	MDV-D56Q1 /N1-C		
Power supply				1-pha	se,208-230V,60Hz	z	1-phase,220)-240V,60Hz		
		kW	1.8	2.2	2.8	3.6	4.5	5.6		
Cooling capacity		kcal/h	1500	1900	2400	3100	3900	4800		
		Btu/h	6100	7500	9600	12300	15400	19100		
		kW	2.2	2.6	3.2	4	5	6.3		
Heating capacity	Heating capacity kcal/		1900	2200	2800	3400	4300	5400		
		Btu/h	7500	8900	10900	13600	17100	21500		
D	Cooling		41	41	41	41	80	85		
Rated input	Heating	W	41	41	41	41	80	85		
B + + +	Cooling	Δ.	0.24	0.24	0.25	0.25	0.37	0.39		
Rated current	Heating	А	0.24	0.24	0.25	0.25	0.37	0.39		
A: G (11/A4)		m³/h	523/404/275	523/404/275	573/456/315	573/456/315	704/630/503	860/810/702		
Airflow rate (H/M/	L)	CFM	308/238/162	308/238/162	337/268/185	337/268/185	414/370/296	506/476/413		
Sound pressure le	vel(H/M/L)	dB(A)	37/34/30	38/34/30	39/37/34	40/38/34	41/39/35	42/40/36		
D (:)		Туре	R410A							
Refrigerant		Control method	EXV							
	Net dim.(W×H×D)	in.(mm)	4	41-1/2×6-21/32×1	6-47/64(1054×169	×425)	(1147×	7/8×25-13/64 200×640)		
Indoor Unit	Gross dim.(W×H×D)	111.(111111)	45	5-15/32×9-41/64×1	9-19/64(1155×245	5×490)	(1380×	-7/16×30-33/64 265×775)		
	Net/Gross weight	lbs.(kg)	27.8/35.3	,		1(13/16.5)		.1)31.5/37.2		
	Net dim.(W×H×D)		46-29/64×1-7 (1180×36	6.5×465)	46-29/64×1-7 (1180×36	6.5×465)	(1425)	/64×29-23/32 ×10×755)		
Panel	Gross dim.(W×H×D)	in.(mm)	48-1/2×4-7/3 (1232×1	32×20-23/64 07×517)	48-1/2×4-7/ (1232×1	32×20-23/64 07×517)	59-1/16×4 (1500>	-21/64×34-1/4 :110×870)		
	Net/Gross weight	lbs.(kg)	7.7/11.5((3.5/5.2)	7.7/11.5	,	19.6/2	6.5(9/12)		
L(flare) in.(mm)		in.(mm)	1/4 (Ф	6.35)	1/4(Ф	6.35)	1/4(Ф6.35)	3/8(Ф9.53)		
Piping connection	s G(flare)	in.(mm)	1/2(Ф	12.7)	1/2(Ф	12.7)	1/2(Φ12.7)	5/8(Ф15.9)		
	Drain piping	in.(mm)	OD 63/	64(Ф25)	OD 63/	64(Ф25)	OD 63/64(Φ25)			
Standard controlle	r		Wireless remote controller (RM05/BG(T)E-A)							
Notes:										

Note

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

^{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



Quiet operation

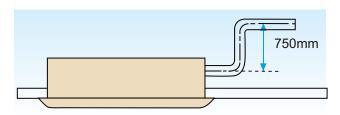
Optimized airflow duct with low resistance greatly reduces noise, minimum down to 24dB(A).

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.



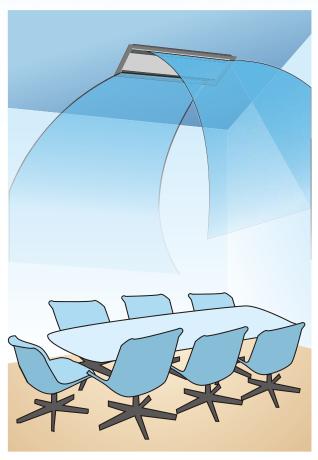
Standard built-in drain pump with 750mm pump head (higher pump head can be customized).



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.



Model			MDV-D22Q2/N1	MDV-D28Q2/N1	MDV-D36Q2/N1	MDV-D45Q2/N1					
Power suppl	у				1-phase, 22	0-240V, 50Hz	I	I			
		kW	2.2	2.8	3.6	4.5	5.6	7.1			
Cooling capa	acity	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			
		kW	2.6	3.2	4.0	5.0	6.3	8.0			
Heating capa	acity	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	154			
rower input	Heating	VV	57	57	60	92	108	154			
Rated	Cooling	Α	0.35	0.45	0.45	0.55	0.55	0.75			
current	Heating		0.35	0.45	0.45	0.55	0.55	0.75			
Airflow rate(I	1/\\/\\	m³/h	654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1,200/1,000/770			
All llow rate(i	1/1V1/L)	CFM	385/312/241	385/312/241	427/348/270	500/394/324	577/471/394	706/589/453			
Sound press	ure level(H/M/L)	dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34			
		Туре			R41	0A					
Refrigerant		Control method		EXV							
	Net dim.(W×H×D)	mm	1,172×299×591	1,172×299×591	1,172×299×591	1,172×299×591	1,172×299×591	1,172×299×591			
Body	Gross dim.(W×H×D)		1,355×400×675	1,355×400×675	1,355×400×675	1,355×400×675	1,355×400×675	1,355×400×675			
	Net/gross weight	kg	34/42.5	34/42.5	34/42.5	36.5/45	36.5/45	36.5/45			
	Net dim.(W×H×D)	mm	1,430×53×680	1,430×53×680	1,430×53×680	1,430×53×680	1,430×53×680	1,430×53×680			
Panel	Gross dim.(W×H×D)		1,525×130×765	1,525×130×765	1,525×130×765	1,525×130×765	1,525×130×765	1,525×130×765			
	Net/gross weight	kg	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15			
D: :	L(flare)	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.53	Ф9.53			
Piping connections	G(flare)	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9			
	Drain piping	mm	OD Ф32	OD Ф32	OD Ф32	OD Ф32	OD Ф32	OD Ф32			
Standard cor	troller	-		Wireless rer	note controller(RM0	05/BG(T)E-A)					

60Hz Specifications

Model			MDV-D22Q2/VN1	MDV-D28Q2/VN1	MDV-D36Q2/VN1	MDV-D45Q2/VN1		MDV-D71Q2/VN1			
Power suppl	ly				1-phase	, 208-230V, 60Hz	I				
		kW	2.2	2.8	3.6	4.5	5.6	7.1			
Cooling capa	acity	kcal/h	1,900	2,400	3,100	3,900	4,800	6,100			
		Btu/h	7,500	9600	12,300	15,400	, , ,				
		kW	2.6	3.2	4	5	6.3	8			
Heating cap	acity	kcal/h	2200	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	205			
rowel iliput	Heating	VV	78	78	83	115	133	205			
Rated	Cooling	Α	0.35	0.45	0.45	0.55	0.55	0.75			
current	Heating		0.35	0.45	0.45	0.55	0.55	0.75			
Airflow rate(LI/NA/L\	m³/h	674/509/381	674/509/381	740/577/435	878/689/561	941/776/654	1,236/1,110/864			
Allilow rate(⊓/IVI/L)	CFM	397/300/224	397/300/224	436/340/256	517/406/330	554/457/385	727/653/509			
Sound press	sure level(H/M/L)	dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34			
		Туре		R410A							
Refrigerant		Control method			E	XV					
	Net dim.(W×H×D)	in.(mm)		40	6-9/32×11-49/64×23-	-17/64(1172×299×59	1)				
Body	Gross dim.(W×H×D)			5	3-11/32×15-3/4×26-	37/64(1355×400×67	5)				
	Net/gross weight	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)			
	Net dim.(W×H×D)	in.(mm)			56-19/64×2-3/32×26-	-49/64(1430×53×680)				
Panel	Gross dim.(W×H×D)				60-3/64×5-1/8×30-	1/8(1525×130×765)					
	Net/gross weight	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)			
	L(flare)	in.(mm)	Ф1/4(6.35)	Ф1/4(6.35)	Ф1/4(6.35)	Ф1/4(6.35)	Ф3/8(9.53)	Ф3/8(9.53)			
Piping G(flare)	G(flare)	in.(mm)	Ф1/2(12.7)	Ф1/2(12.7)	Ф1/2(12.7)	Ф1/2(12.7)	Ф5/8(15.9)	Ф5/8(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 cor	ntroller	-		Wire	eless remote controlle	er (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)

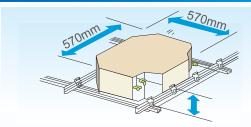
^{2.} Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft. (8m) (horizontal) 3. Sound Level is measured 4.59ft. (1.4m) below the unit



Compact Four-way Cassette

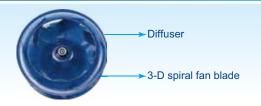


Compact design, easy installation



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.

Fresh air intake



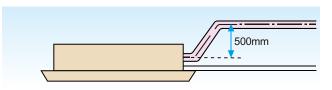
Fresh air can enter through the cassette unit so you can enjoy even fresher air in your room.

Sub duct



Sub duct enables you to use the same air conditioner unit to cool an additional smaller space nearby.

High-lift drain pump



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

Model			MDV-D15Q4/N1-A3	MDV-D22Q4/N1-A3	MDV-D28Q4/N1-A3	MDV-D36Q4/N1-A3				
Power supply					I-phase,220-240V,50)Hz				
		kW	1.5	2.2	2.8	3.6	4.5			
Cooling capacity		kcal/h	1300	1900	2400	3100	3900			
		Btu/h	5100	7500	9600	12300	15400			
		kW	1.7	2.4	3.2	4	5			
Heating capacity		kcal/h	1500	2100	2700	3400	4300			
		Btu/h	5800	8200	10900	13600	17100			
Rated input	Cooling	W	36	50	50	56	56			
Kaleu IIIpul	Heating	VV	36	50	50	56	56			
Rated current	Cooling		0.22	0.22	0.22	0.25	0.25			
Rated Current	Heating	A	0.22	0.22	0.22	0.25	0.25			
Airflow rate(SH/H/M/	1.\	m³/h	501/435/283/208	522/414/313/238	522/414/313/238	610/521/409/314	610/521/409/314			
Alfilow fale(SH/H/IVI/	L)	CFM	295/256/167/98	307/244/184/140	307/244/184/140	359/307/241/185	359/307/241/185			
Sound pressure leve	I(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	41.5/35.6/28.8			
Refrigerant		Туре	R410A							
Reingerant		Control method	EXV							
	Net dim.(W×H×D)	mm	570x260x570	570x260x570	570x260x570	570x260x570	570x260x570			
Indoor Unit	Gross dim.(W×H×D)	mm	675x285x675	675x285x675	675x285x675	675x285x675	675x285x675			
	Net/Gross weight	kg	16/19.5	16/20	16/20	18/22	18/22			
	Net dim.(W×H×D)	mm	647x50x647	647x50x647	647x50x647	647x50x647	647x50x647			
Panel	Gross dim.(W×H×D)		715x123x715	715x123x715	715x123x715	715x123x715	715x123x715			
	Net/Gross weight	kg	2.4/4.5	2.4/4.5	2.4/4.5	2.4/4.5	2.4/4.5			
	L(flare)	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35			
Piping connections	G(flare)	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф12.7			
	Drain piping	mm	OD Ф25	OD Ф25	OD Ф25	OD Ф25	OD Φ25			
Standard controller			Wireless remote controller (RM05/BG(T)E-A)							

60Hz Specifications

Model			MDV-D22Q4/VN1-A3	MDV-D28Q4/VN1-A3	MDV-D36Q4/VN1-A3					
Power supp	ly		'	1-phase, 208	3-230V 60Hz					
		kW	2.2	2.8	3.6	4.5				
Cooling cap	acity	kcal/h	1,900	2,400	3,100	3,900				
		Btu/h	7,500	7,500 9,600 12,300						
		kW	2.4	3.2	4	5				
Heating cap	acity	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	58				
i owei iriput	Heating	VV	43 44 50							
Rated	Cooling	A 0.175 0.175 0.21								
current	Heating	, ,	0.175	0.175	0.21	0.21				
Airflow rate(SH/H/M/L)	m³/h	532/397/292/215	539/408/310/231	632/496/359/263	632/496/359/263				
/ III IIOW Tato(OT I/T I/TVI/E)	CFM	313/234/172/127	317/240/182/136	372/292/211/155	372/292/211/155				
Sound press	sure level(H/M/L)	dB(A)	35.8/33.4/23.4	35.8/33.4/23.4	41.5/35.6/28.8	41.5/35.6/28.8				
D (: .		Туре	R410A							
Refrigerant		Control method		E	(V					
	Net dim.(W×H×D)	in.(mm)		22-7/16×10-15/64×22	2-7/16(570×260×570)					
Body	Gross dim.(W×H×D)	()		26-9/16×11-7/32×26	-9/16(675×285×675)					
	Net/Gross weight	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)				
	Net dim.(W×H×D)	in.(mm)		25-15/32×1-31/32×2	5-15/2(647×50×647)					
Panel	Gross dim.(W×H×D)	(!!!!!)		28-5/32×4-27/32×28-	5/32 (715×123×715)					
	Net/Gross weight	lbs.(kg)	6.6/11(3/5)	6.6/11(3/5)	6.6/11(3/5)	6.6/11(3/5)				
D: :	L(flare) in.(mm)		Ф1/4(6.35)	Ф1/4(6.35)	Ф1/4(6.35)	Ф1/4(6.35)				
Piping connections	G(flare)	in.(mm)	Ф1/2(12.7)	Ф1/2(12.7)	Ф1/2(12.7)	Ф1/2(12.7)				
	Drain piping	in.(mm)	OD 63/64(Ф25)	OD 63/64(Φ25)	OD 63/64(Ф25)	OD 63/64(Φ25)				
Standard cor	ntroller			Wireless remote contro	ller (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 4.59ft. (1.4m) below the unit



Four-way Cassette



Quiet operation, gentle air supply

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

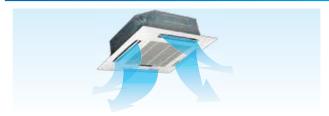


Easy troubleshooting

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



Four-way uniform airflow



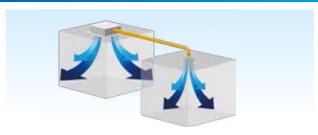
Four air discharge ports provide strong air flow circulation to cool or heat every corner of a room and evenly distribute temperature. High airflow mode can maximize the conditioning effect in rooms that are over 3m high.

Fresh air intake



Fresh air can enter through the cassette unit so you can enjoy even fresher air in your room.

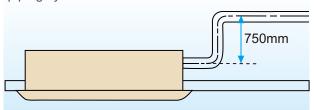
Sub duct



Sub duct enables you to use the same air conditioner unit to cool an additional smaller space nearby.

High-lift drain pump

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



Model			MDV-D28Q4/N1-D	MDV-D36Q4/N1-D					
Power supply				1	-phase, 220-240V, 50Hz				
		kW	kW 2.8 3.6 4.5		5.6	7.1			
Cooling capac	city	kcal/h	2,400	3,100	3,900	4,800	6,100		
		Btu/h	9,600	12,300	15,400	19,100	24,200		
		kW	3.2	4.0	5.0	6.3	8.0		
Heating capa	city	kcal/h	2,800	3,400	4,300	5,400	6,900		
		Btu/h	10,900	13,600	17,100	21,500	27,300		
Davisa innut	Cooling	101	65	65	75	75	82		
Power input	Heating	W	65	65	75	75	82		
Rated current	Cooling	Α	0.4	0.4	0.4	0.4	0.5		
Rated current	Heating	A	0.4	0.4	0.4	0.4	0.5		
Airflow rate(S	L/L/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		
Allilow rate(5	П/П/IVI/L)	CFM	699/498/450/376	699/498/450/376	660/508/444/387	660/508/444/387	815/680/562/440		
Sound pressu	ire level(H/M/L)	dB(A)	42/38/35 42/38/35 42/38/35 42		42/38/35	45/42/39			
		Туре	R410A						
Refrigerant		Control method	EXV						
	Net dim.(W×H×D)	mm	904×230×840	904×230×840	904×230×840	904×230×840	904×230×840		
Body	Gross dim.(W×H×D)	111111	955×260×955	955×260×955	955×260×955	955×260×955	955×260×955		
	Net/gross weight	kg	24/28	24/28	26/30	26/30	26/30		
	Net dim.(W×H×D)		950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950		
Panel	Gross dim.(W×H×D)	mm	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035		
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9		
	L(flare)	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.53	Ф9.53		
Piping	G(flare)	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9		
connections	Drain piping	mm	OD Ф32	OD Ф32	OD Ф32	OD Ф32	OD Ф32		
Standard con	troller	-		Wireless remot	te controller(RM05/BG(T)E	-A)			

Model			MDV-D80Q4/N1-D	MDV-D90Q4/N1-D	MDV-D100Q4/N1-D				
Power supply			1-phase, 220-240V, 50Hz						
	kW		8.0 9.0		10.0	11.2	14.0		
Cooling capac	city	kcal/h	6,900	7,700	8,600	9,600	12,000		
		Btu/h	27,300	30,700	34,100	38,200	47,800		
		kW	9.0	10.0	11.1	12.5	15.0		
Heating capa	city	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	97	160	160	160	170		
rower input	Heating	VV	97	160	160	160	170		
Rated current	Cooling	А	0.5	0.7	0.7	0.7	0.8		
rtated current	Heating	A	0.5	0.7	0.7	0.7	0.8		
Airflow rate(S	H/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		
Allilow rate(o	1 1/1 1/1VI/L)	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 pressu	re level(H/M/L)	dB(A)	45/42/39 48/45/43 48/45/43 48/4		48/45/43	50/47/44			
		Туре	R410A						
Refrigerant		Control method	EXV						
	Net dim.(W×H×D)	mm	904×230×840	904×300×840	904×300×840	904×300×840	904×300×840		
Body	Gross dim.(W×H×D)		955×260×955	955×330×955	955×330×955	955×330×955	955×330×955		
	Net/gross weight	kg	26/30	32/37	32/37	32/37	32/37		
	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950		
Panel	Gross dim.(W×H×D)	111111	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035		
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9		
Piping	L(flare)	mm	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53		
connections	G(flare)	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9		
00111100110113	Drain piping	mm	OD Ф32	OD Ф32	OD Ф32	OD Ф32	OD Ф32		
Standard con	troller	-		Wireless rer	mote 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.



Model			MDV-D28Q4/N1-D	MDV-D36Q4/N1-D					
Power supply			1-phase, 220-240V, 60Hz						
		kW	2.8 3.6 4.5		5.6	7.1			
Cooling capa	city	kcal/h	2,400	3,100	3,900	4,800	6,100		
		Btu/h	9,600	12,300	15,400	19,100	24,200		
		kW	3.2	4	5	6.3	8		
Heating capa	city	kcal/h	2,800	3,400 13,600	4,300 17,100	5,400 21,500	6,900		
		Btu/h	10,900				27,300		
Power input	Cooling	W	90	90	90	90	115		
rowei iliput	Heating	VV	90	90	90	90	115		
Rated current	Cooling	А	0.4	0.4	0.4	0.4	0.5		
Rateu curren	Heating	^	0.4	0.4	0.4	0.4	0.5		
Airflow rate(S	L/L/M/L)	m³/h	1,155/847/766/640	1,155/847/766/640	1,207/864/755/658	1,207/864/755/658	1,327/1,157/955/749		
Allilow fale(3	П/П/IVI/L)	CFM	680/499/451/377	680/499/451/377	710/509/444/387	710/509/444/387	781/681/562/441		
Sound pressu	ire level(H/M/L)	dB(A)	42/38/35 42/38/35 42/38/35 42/38/35				45/42/39		
		Туре	R410A						
Refrigerant		Control method	EXV						
	Net dim.(W×H×D)	in.(mm)	35-19/32×9-1/16×33-5/64(904×230×840)						
Body	Gross dim.(W×H×D)	111.(111111)	37-19/32x10-15/64x37-19/32(955x260x955)						
	Net/gross weight	lbs.(kg)	53 /61.7(24/28)	53 /61.7(24/28)	57.3 /66.2(26/30)	57.3 /66.2(26/30)	57.3 /66.2(26/30)		
	Net dim.(W×H×D)	in (m.m.)		37-13/32	×2-9/64×37-13/32(950×54.	5×950)			
Panel	Gross dim.(W×H×D)	in.(mm)		40-3/4×3	3-35/64×40-3/4(1,035×90×	1,035)			
	Net/gross weight	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)	11.0/19.9(5/9)		
District.	L(flare)	in.(mm)	Ф1/4(6.35)	Ф1/4(6.35)	Ф1/4(6.35)	Ф3/8(9.53)	Ф3/8(9.53)		
Piping connections	G(flare)	in.(mm)	Ф1/2(12.7)	Ф1/2(12.7)	Ф1/2(12.7)	Ф5/8(15.9)	Ф5/8(15.9)		
CONTRECTIONS	Drain piping	in.(mm)		OD	1-17/64(Φ32)				
Standard con	troller	-		Wireless	remote controller (RM05/B	G(T)E-A)			

Model			MDV-D80Q4/N1-D	MDV-D90Q4/N1-D	MDV-D100Q4/N1-D					
Power supply			1-phase, 220-240V, 60Hz							
		kW	8 9 1		10	11.2	14			
Cooling capa	city	kcal/h	6,900	7,700	8,600	9,600	12,000			
		Btu/h	27,300	30,700	34,100	38,200	47,800			
		kW	9	10	11.1	12.5	15			
Heating capa	city	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	160	180			
rowei iliput	Heating	VV	115	160	160	160	180			
Rated curren	Cooling	A	0.5	0.7	0.7	0.7	0.8			
rvateu curren	Heating	~	0.5	0.7	0.7	0.7	0.8			
Airflow rate(S	: LI/LI/M/I \	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	1,881/1,678/1,358/1,115			
Allilow rate(c)	CFM	799/727/573/429	1,057/936/765/642	1,057/936/765/642	1,057/936/765/642	1,107/988/799/656			
Sound pressi	ure level(H/M/L)	dB(A)	45/42/39 48/45/43 48/45/43 48/45/43				50/47/44			
		Туре	R410A							
Refrigerant		Control method	EXV							
	Net dim.(W×H×D)	in.(mm)	35-19/32×9-1/16×33-5/64(35-19/32×11-13/16×33-5/64(904×300×840)							
Body	Gross dim.(W×H×D)		37-19/32x10-15/64x37-19/ 32(955x260x955)	37-19/32x	11-13/16x37-19/32(955x33	80x955)				
	Net/gross weight	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)	70.5/81.6(32/37)			
	Net dim.(W×H×D)	in.(mm)		37-13/32	×2-9/64×37-13/32(950×54.	5×950)				
Panel	Gross dim.(W×H×D)	111.(111111)		40-3/4×3	3-35/64×40-3/4(1,035×90×	1,035)				
	Net/gross weight	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)	11.0/17.6(5/8)			
Piping	L(flare)	in.(mm)	Ф3/8(9.53)	Ф3/8(9.53)	Ф3/8(9.53)	Ф3/8(9.53)	Ф3/8(9.53)			
connections	G(flare)	in.(mm)	Ф5/8(15.9)	Ф5/8(15.9)	Ф5/8(15.9)	Ф5/8(15.9)	Ф5/8(15.9)			
COLLIGCTIONS	Drain piping	in.(mm)		OE) 1-17/64(Ф32)					
Standard cor	troller	-		Wireless	remote controller (RM05/B	G(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

Four-way Cassette - Silent Type



Lower operating sound

The new designed fan blade, air deflector and the built-in throttling part make the noise reduced greatly.



The former fan blade



Optimized fan blade

More reliable

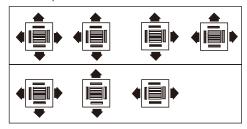
- The connection of drainage pan adopts foaming technology which can further improve the connection tightness.
- Capacitor is isolated by a sheet metal box making it safer and even more reliable.



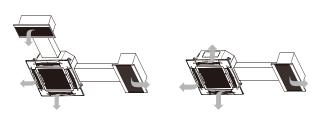
■ The high voltage and low voltage electricity wires are separated in electronic control box making the interference decreased greatly.

Flexible air distribution type

■ 7 discharge patterns in 2 to 4 directions can be selected to suit the requirements of installation site or the shape of the room.



■ Duct connection is possible.





Model			MDV-D28Q4/N1-E	MDV-D36Q4/N1-E	MDV-D45Q4/N1-E	MDV-D56Q4/N1-E	MDV-D71Q4/N1-E
Power supply				1	l-phase, 220-240V, 50	Hz	
		kW	2.8	3.6	4.5	5.6	7.1
Cooling capacity	,	kcal/h	2,400	3,100	3,900	4,800	6,100
		Btu/h	9,600	12,300	15,400	19,100	24,200
		kW	3.2	4	5	6.3	8
Heating capacity kca			2,800	3,400	4,300	5,400	6,900
		Btu/h	10,900	13,600	17,100	21,500	27,300
	Cooling	W	80 80		88	88	88
Power input	Heating	W	80	80	88	88	88
	Cooling	А	0.31	0.31	0.41	0.41	0.41
Rated current	Heating	A	0.31	0.31	0.41	0.41	0.41
	3	m³/h	920/764/638//554	920/764/638//554	1090/905/740//651	1090/905/740//651	1140/950/767//663
Airflow rate (SH/	H/M/L)	CFM	541/450/375/326	541/450/375/326	641/532/435/383	641/532/435/383	670/560/451/390
Sound proceure	lovol (H/M/L)						
Sound pressure		dB(A)	32/31/30	32/31/30	36/34/33	36/34/33	38/36/35
Refrigerant	Type				R410A		
	Control method				EXV		
D 1	Net dim. (W×H×D)	mm			840×230×840		
Body	Gross dim. (W×H×D)	mm			955×260×955		
	Net/Gross weight	kg	21.5/26.7	21.5/26.7	23.7/28.9	23.7/28.9	23.7/28.9
	Net dim. (W×H×D)	mm			950×54.5×950		
Panel	Gross dim. (W×H×D)	mm			1035×90×1035		
	Net/Gross weight	kg			6/9		
Piping	L (flare)	mm		Ф6.35		Ф	9.53
connections	G (flare)	mm		Ф12.7		Ф	15.9
Drain piping mm					Ф32		
					+ 0=		
Standard contro				Wireles	ss remote controller (R	M05/BG(T)E-A)	
Standard control Model			MDV-D80Q4/N1-E		ss remote controller (R	. , ,	MDV-D140Q4/N1-E
Model			MDV-D80Q4/N1-E	MDV-D90Q4/N1-E	ss remote controller (R	MDV-D112Q4/N1-E	MDV-D140Q4/N1-E
		kW	MDV-D80Q4/N1-E	MDV-D90Q4/N1-E	ss remote controller (R	MDV-D112Q4/N1-E	MDV-D140Q4/N1-E
Model	ler			MDV-D90Q4/N1-E	MDV-D100Q4/N1-E -phase, 220-240V, 50H	MDV-D112Q4/N1-E Hz 11.2	14.0
Model Power supply	ler	kW	8.0 6,900	MDV-D90Q4/N1-E 1- 9.0	MDV-D100Q4/N1-E -phase, 220-240V, 50h	MDV-D112Q4/N1-E Hz 11.2 9,600	14.0 12,000
Model Power supply	ler	kW kcal/h Btu/h	8.0 6,900 27,300	MDV-D90Q4/N1-E 9.0 7,700 30,700	MDV-D100Q4/N1-E -phase, 220-240V, 50h 10.0 8,600 34,100	MDV-D112Q4/N1-E Hz 11.2 9,600 38,200	14.0 12,000 47,800
Model Power supply Cooling capacity	ler	kW kcal/h Btu/h kW	8.0 6,900 27,300 9.0	MDV-D90Q4/N1-E 1. 9.0 7,700 30,700 10.0	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1	MDV-D112Q4/N1-E Hz 11.2 9,600 38,200 12.5	14.0 12,000 47,800 16.0
Model Power supply	ler	kW kcal/h Btu/h kW kcal/h	8.0 6,900 27,300 9.0 7,700	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800	14.0 12,000 47,800 16.0 13,800
Model Power supply Cooling capacity	ler	kW kcal/h Btu/h kW kcal/h Btu/h	8.0 6,900 27,300 9.0 7,700 30,700	9.0 7,700 30,700 10.0 8,600 34,100	MDV-D100Q4/N1-E -phase, 220-240V, 50F 10.0 8,600 34,100 11.1 9,500 37,900	MDV-D112Q4/N1-E Hz 11.2 9,600 38,200 12.5 10,800 42,700	14.0 12,000 47,800 16.0 13,800 54,600
Model Power supply Cooling capacity	Cooling	kW kcal/h Btu/h kW kcal/h Btu/h	8.0 6,900 27,300 9.0 7,700 30,700	9.0 7,700 30,700 10.0 8,600 34,100 140	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165	14.0 12,000 47,800 16.0 13,800 54,600
Model Power supply Cooling capacity Heating capacity	Cooling Heating	kW kcal/h Btu/h kW kcal/h Btu/h W	8.0 6,900 27,300 9.0 7,700 30,700 110	9.0 7,700 30,700 10.0 8,600 34,100 140	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165	MDV-D112Q4/N1-E Hz 11.2 9,600 38,200 12.5 10,800 42,700 165 165	14.0 12,000 47,800 16.0 13,800 54,600 176
Model Power supply Cooling capacity Heating capacity	Cooling Heating Cooling	kW kcal/h Btu/h kW kcal/h Btu/h W	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48	MDV-D90Q4/N1-E 1. 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72	MDV-D112Q4/N1-E Hz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75
Model Power supply Cooling capacity Heating capacity Power input	Cooling Heating	kW kcal/h Btu/h kW kcal/h Btu/h W	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48	9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75
Model Power supply Cooling capacity Heating capacity Power input	Cooling Heating Cooling Heating	kW kcal/h Btu/h kW kcal/h Btu/h W W A A A	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/	Cooling Heating Cooling Heating	kW kcal/h Btu/h kW kcal/h Btu/h W W A A M³/h CFM	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665
Model Power supply Cooling capacity Heating capacity Power input Rated current	Cooling Heating Cooling Heating	kW kcal/h Btu/h kW kcal/h Btu/h W W A A A	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/	Cooling Heating Cooling Heating H/M/L) Ievel (H/M/L) Type	kW kcal/h Btu/h kW kcal/h Btu/h W W A A M³/h CFM	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 R410A	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/	Cooling Heating Cooling Heating Heating Type Control method	kW kcal/h Btu/h kW kcal/h Btu/h W W A A M³/h CFM dB(A)	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464 42/39/37	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 R410A EXV	MDV-D112Q4/N1-E Hz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/ Sound pressure Refrigerant	Cooling Heating Cooling Heating Heating Type Control method Net dim. (W×H×D)	kW kcal/h Btu/h kW kcal/h Btu/h W W A A M³/h CFM dB(A)	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464 42/39/37	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 R410A EXV 840×3	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 00×840	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/ Sound pressure Refrigerant	Cooling Heating Cooling Heating Type Control method Net dim. (W×H×D) Gross dim. (W×H×D)	kW kcal/h Btu/h kW kcal/h Btu/h W W A A M³/h CFM dB(A)	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464 42/39/37	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534 43/39/38	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 R410A EXV 840×3 955×3	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 00×840 30×955	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665 46/41/39
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/ Sound pressure Refrigerant	Cooling Heating Cooling Heating Heating Type Control method Net dim. (W×H×D) Gross dim. (W×H×D) Net/Gross weight	kW kcal/h Btu/h kW kcal/h Btu/h W W A A M³/h CFM dB(A)	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464 42/39/37	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 R410A EXV 840×3 955×3 28.7/34.1	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 00×840	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/ Sound pressure Refrigerant	Cooling Heating Cooling Heating Type Control method Net dim. (W×H×D) Gross dim. (W×H×D)	kW kcal/h Btu/h kW kcal/h Btu/h W W A A M³/h CFM dB(A)	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464 42/39/37	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534 43/39/38	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 R410A EXV 840×3 955×3	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 00×840 30×955	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665 46/41/39
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/ Sound pressure Refrigerant	Cooling Heating Cooling Heating Heating Type Control method Net dim. (W×H×D) Gross dim. (W×H×D) Net/Gross weight	kW kcal/h Btu/h kW kcal/h Btu/h W W A A M³/h CFM dB(A)	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464 42/39/37	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534 43/39/38	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 R410A EXV 840×3 955×3 28.7/34.1	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 00×840 30×955	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665 46/41/39
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/Sound pressure Refrigerant Body	Cooling Heating Cooling Heating Heating Cooling Heating TH/M/L) Iveel (H/M/L) Type Control method Net dim. (W×H×D) Gross dim. (W×H×D) Net/Gross weight Net dim. (W×H×D)	kW kcal/h Btu/h kW kcal/h Btu/h W W A A m³/h CFM dB(A) mm kg mm	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464 42/39/37	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534 43/39/38	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 R410A EXV 840×3 955×3 28.7/34.1	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 00×840 30×955	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665 46/41/39
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/ Sound pressure Refrigerant Body Panel	Cooling Heating Cooling Heating Heating Cooling Heating Coling Heating Heating Coling Heating Heatin	kW kcal/h Btu/h kW kcal/h Btu/h W W A A m³/h CFM dB(A) mm mm kg mm	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464 42/39/37	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534 43/39/38	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 R410A EXV 840×3 955×3 28.7/34.1 950×54.5×950 1035×90×1035	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 00×840 30×955	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665 46/41/39
Model Power supply Cooling capacity Heating capacity Power input Rated current Airflow rate (SH/Sound pressure Refrigerant Body	Cooling Heating Cooling Heating Cooling Heating Heating Control method Net dim. (W×H×D) Gross dim. (W×H×D) Net/Gross weight Net dim. (W×H×D) Gross dim. (W×H×D) Net/Gross weight	kW kcal/h Btu/h kW kcal/h Btu/h W W A A M³/h CFM dB(A) mm mm kg mm kg	8.0 6,900 27,300 9.0 7,700 30,700 110 110 0.48 0.48 1380/1200/1021/789 812/706/600/464 42/39/37	MDV-D90Q4/N1-E 9.0 7,700 30,700 10.0 8,600 34,100 140 140 0.67 0.67 1598/1332/1129/908 940/784/664/534 43/39/38	MDV-D100Q4/N1-E -phase, 220-240V, 50H 10.0 8,600 34,100 11.1 9,500 37,900 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 R410A EXV 840×3 955×3 28.7/34.1 950×54.5×950 1035×90×1035 6/9	MDV-D112Q4/N1-E dz 11.2 9,600 38,200 12.5 10,800 42,700 165 165 0.72 0.72 1750/1651/1304/1127 1029/971/767/663 45/42/40 00×840 30×955	14.0 12,000 47,800 16.0 13,800 54,600 176 176 0.75 0.75 1774/1658/1335/1130 1044/975/785/665 46/41/39

Notes

Standard controller

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

Wireless remote controller (RM05/BG(T)E-A)

- 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.

Model			MDV-D28Q4/VN1-E	MDV-D36Q4/VN1-E	MDV-D45Q4/VN1-E	MDV-D56Q4/VN1-E			
Power supply			1-phase, 208-230V, 60Hz						
kW			2.8	2.8 3.6 4		5.6	7.1		
Cooling capaci	ty	kcal/h	2,400	3,100	3,900	4,800	6,100		
		Btu/h	9,600	12,300	15,400	19,100	24,200		
		kW	3.2	4.0	5.0	6.3	8.0		
Heating capaci	ty	kcal/h	2,800	3,400	4,300	5,400	6,900		
		Btu/h	10,900	13,600	17,100	21,500	27,300		
Dawar innut	Cooling	W	80	80	88	88	105		
Power input	Heating	W	80	80	88	88	105		
D-4	Cooling	А	0.31	0.31	0.4	0.4	0.43		
Rated current	Heating	А	0.31	0.31	0.4	0.4	0.43		
Airflow rate (SI	1/11/1/1/1/1	m³/h	1020/791/674/596	1020/791/674/596	1195/942/777/662	1195/942/777/662	1421/1235/1013/805		
All llow rate (Si	VI VIVVL)	CFM	600/465/396/351	600/465/396/351	703/554/457/389	703/554/457/389	836/726/596/474		
Sound pressur	e level (H/M/L)	dB(A)	30/25/22	30/25/22	35/31/27	35/31/27	43/37/31		
D (; ,	Туре		R410A						
Refrigerant	Control method		EXV						
	Net dim. (W×H×D)	in.(mm)	33-1/16×9-1/16×33-1/16(840×230×840)						
Body	Gross dim. (W×H×D)	in.(mm)	37-19/32×10-1/4×37-19/32(955×260×955)						
	Net/Gross weight	lbs.(kg)	47.3/58.7(21.5/26.7)	47.3/58.7(21.5/26.7)	52.1/63.6(23.7/28.9)	52.1/63.6(23.7/28.9)	52.1/63.6(23.7/28.9)		
	Net dim. (W×H×D)	in.(mm)		37-13/32	2×2-9/64×37-13/32(950×	54.5×950)			
Panel	Gross dim. (W×H×D)	in.(mm)		40-3/4	1×3-9/16×40-3/4(1035×9	0×1035)			
	Net/Gross weight	lbs.(kg)			13.2/19.8(6/9)				
Dining	L (flare)	in. (mm)	Ф1/4 (6.35)	Ф1/4 (6.35)	Ф1/4 (6.35)	Ф3/8 (9.53)	Ф3/8 (9.53)		
Piping connections	G (flare)	in. (mm)	Ф1/2 (12.7)	Ф1/2 (12.7)	Ф1/2 (12.7)	Ф5/8 (15.9)	Ф5/8 (15.9)		
COMPCUONS	Drain piping	in. (mm)		,	Ф1-1/4 (32)				
Standard contr	oller			Wireless	remote controller (RM05	i/BG(T)E-A)			

Model			MDV-D80Q4/VN1-E	MDV-D90Q4/VN1-E	MDV-D100Q4/VN1-E	MDV-D112Q4/VN1-E			
Power supply				1-p	hase, 208-230V, 60H	Z			
		kW	8.0	9.0	10.0	11.2	14.0		
Cooling capac	ity	kcal/h	6,900	6,900 7,700 8,600		9,600	12,000		
		Btu/h	27,300	30,700	34,100	38,200	47,800		
		kW	9.0	10.0	11.1	12.5	16.0		
Heating capac	ity	kcal/h	7,700	8,600	9,500	10,800	13,800		
		Btu/h	30,700	34,100	37,900	42,700	54,600		
Power input	Cooling	W	120	187	200	200	220		
rowei iriput	Heating	W	120	187	200	200	220		
Rated current	Cooling	А	0.53	0.84	0.87	0.87	0.94		
	Heating	А	0.53	0.84	0.87	0.87	0.94		
Airflow rate (S	L/L/M/I \	m³/h	1421/1235/1013/805	1606/1333/1158/957	1766/1634/1219/1139	1766/1634/1219/1139	1790/1692/1243/1157		
Allilow rate (3)	1 1/1 1/10/10/10/	CFM	836/726/596/474	945/784/681/563	1039/961/717/670	1039/961/717/670	1053/995/731/681		
Sound pressu	re level (H/M/L)	dB(A)	43/37/31	43/38/32	45/37/35	45/37/35	46/38/37		
Defricerent	Туре		R410A						
Refrigerant	Control method		EXV						
	Net dim. (W×H×D)	in.(mm)	33-1/16×9-1/16×33-1/16 (840×230×840)	33-1/16×11-13/16×33-1/16(840×300×840)					
Body	Gross dim. (W×H×D)	in.(mm)	37-19/32×10-1/4×37-19/32 (955×260×955)	37-19/32×13×37-19/32(955×330×955)					
	Net/Gross weight	lbs.(kg)	52.1/63.6(23.7/28.9)	63.1/75(28.7/34.1)	63.1/75(28.7/34.1)	63.1/75(28.7/34.1)	68/79.9(30.9/36.3)		
	Net dim. (W×H×D)	in.(mm)		37-13/32×2	2-9/64×37-13/32(950×54.5×950)				
Panel	Gross dim. (W×H×D)	in.(mm)		40-3/4×3	-9/16×40-3/4(1035×9	0×1035)			
	Net/Gross weight	lbs.(kg)			13.2/19.8(6/9)				
Piping	L (flare)	in. (mm)	Ф3/8 (9.53)						
connections	G (flare)	in. (mm)			Ф5/8 (15.9)				
CONTRECTIONS	Drain piping	in. (mm)			Ф1-1/4 (32)				
Standard cont	roller			Wireless re	mote controller (RM05	5/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.

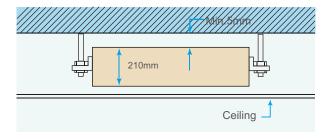
V shape evaporator-- good for heat exchanging

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

Convenient for installation and maintenance

The EXV is fixed inside the indoor unit.

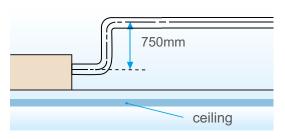
Compact design



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.

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 suppl	У		220-240V~1Ph~50Hz									
		kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1			
Cooling capa	acity	kcal/h	1500	1900	2400	3100	3900	4800	6100			
		Btu/h	6100	7500	9600	12300	15400	19100	24200			
		kW	2.2	2.6	3.2	4	5	6.3	8			
Heating cap	acity	kcal/h	1900	2200	2800	3400	4300	5400	6900			
		Btu/h	7500	8900	10900	13600	17100	21500	27300			
Datad innut	Cooling	W	59	59	59	65	105	105	130			
Rated input	Heating	VV	59	59	59	65	105	105	130			
Rated	Cooling		0.31	0.31	0.31	0.36	0.36	0.36	0.5			
current	Heating	Α	0.31	0.31	0.31	0.36	0.36	0.36	0.5			
Airflann nata (CLL/LL/M/L \	m³/h	6	06(30pa)/578/512/	409	646(30pa) /617/551/441	803(30Pa	a)/824/690/609	1207(30pa) /1060/970/811			
Airflow rate(SH/H/M/L)	CFM		357/340/301/241		380/363/324/260	473/48	710/624/571/477				
External Sta	tic Pressure	Pa	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)			
Sound press (H/M/L)	sure level	dB(A)	35/27/24	35/27/24	35/27/24	38/32/28	39/32/29	39/32/29	41/33/30			
Defi		Туре	R410A	R410A	R410A	R410A	R410A	R410A	R410A			
Refrigerant t	.ype	Control type	EXV	EXV	EXV	EXV	EXV	EXV	EXV			
	Dimension (W×H×D)	mm	740×210×470	740×210×470	740×210×470	740×210×470	960×210×470	960×210×470	1180×210×470			
Indoor unit	Packing (W×H×D)	mm	910×230×510	910×230×510	910×230×510	910×230×510	1130×230×510	1130×230×510	1350×230×510			
	Net/Gross weight	kg	14/17.5	14/17.5	14/17.5	14/17.5	17.5/22	17.5/22	21/26.5			
	L(flare)	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.53	Ф9.53			
Piping connections	G(flare)	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9			
	Drain piping	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25			
Standard co	ntroller				Wire	less remote control	ler (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-D56T3/VN1-C	MDV-D71T3/VN1-C
Power s	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
kW		kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
Cooling	capacity	kcal/h	1500	1900	2400	3100	3900	4800	6100
		Btu/h	6100	7500	9600	12300	15400	19100	24200
		kW	2.2	2.6	3.2	4	5	6.3	8
Heating	capacity	kcal/h	1900	2200	2800	3400	4300	5400	6900
		Btu/h	7500	8900	10900	13600	17100	21500	27300
Rated	Cooling	W	59	59	59	65	105	105	130
input		VV	59	59	59	65	105	105	130
Rated	Cooling	А	0.26	0.26	0.26	0.3	0.5	0.5	0.6
current	Heating	А	0.26	0.26	0.26	0.3	0.5	0.5	0.6
A inflant no	ate(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(30pa)/824/690/609	803(30pa)/824/690/609	1207(30pa)/1060/970/811
Alfillow 18	ate(SH/H/IVI/L)	CFM	357/340/301/241	357/340/301/241	357/340/301/241	380/363/324/260	473/485/406/358	473/485/406/358	710/624/571/477
	Static Pressure	Pa	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)	10(10~30)
Sound p (H/M/L)	ressure level	dB(A)	35/27/24	35/27/24	35/27/24	38/32/28	39/32/29	39/32/29	41/33/30
Defries	ant tune	Туре	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Reiriger	ant type	Control type	EXV	EXV	EXV	EXV	EXV	EXV	EXV
	Dimension (W×H×D)	in.(mm)		29-9/64×8-1	7/64×18-1/2(740×2	210×470)		8-17/64×18-1/2 ×210×470)	46-29/64×8-17/64×18-1/2 (1180×210×470)
Indoor unit	Packing (W×H×D)	in.(mm)		35-53/64×9-	1/16×20-5/64(910×	230×510)	44-31/64×9		53-5/32×9-1/16×20-5/64 (1350×230×510)
unit	Net/Gross/ weight	lbs.(kg)		32.0/3	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
Piping	L(flare)	in.(mm)	1/4(Ф6.35)	1/4(Ф6.35)	1/4(Ф6.35)	1/4(Ф6.35)	1/4(Ф6.35)	3/8(Ф9.53)	3/8(Ф9.53)
conn-	G(flare)	in.(mm	1/2(Ф12.7)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	Ф12.7	5/8(Ф15.9)	5/8(Ф15.9)
ections	Drain piping	in.(mm)				OD 63/64(Φ2	5)		
Standar	d controller				Wir	eless remote contro	oller (RM05/BG(T)E	-A)	

Notes

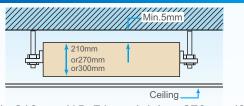
- 1. Nominal cooling capacities are based on the following conditions: return air temp.: 27°CDB, 19°CWB, and outdoor temp.:35°CDB, equivalent ref. piping: 8m (horizontal)
- 2. Nominal heating capacities are based on the following conditions: return air temp.: 20°CDB, outdoor temp.: 7°CDB, 6°CWB, and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



Concealed Duct Unit (A5 Type)







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.

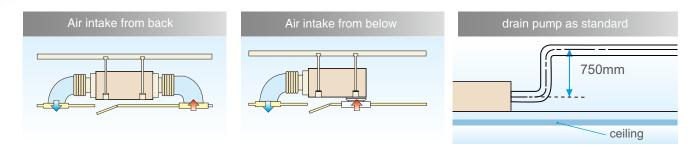
Convenient installation

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).

Model			MDV-D15T2 /N1-DA5	MDV-D22T2 /N1-DA5	MDV-D28T2 /N1-DA5	MDV-D36T2 /N1-DA5	MDV-D45T2 /N1-DA5	
Power supply	/				1-	phase,220-240V,5	OHz	
		kW	1.5	2.2	2.8	3.6	4.5	5.6
Cooling capa	city	kcal/h	1290	1900	2400	3100	3900	4800
		Btu/h	5100	7500	9600	12300	15400	19100
		kW	1.7	2.6	3.2	4	5	6.3
Heating capa	city	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	103
Rated Input	d input Heating		56	57	57	61	98	103
Rated current	Cooling	А	0.31	0.31	0.31	0.33	0.36	0.36
Rated current	Heating	А	0.31	0.31	0.31	0.33	0.36	0.36
۸:ــــا ۱۵۰	11/11/04/1	m ³ /h	5	88(30pa)/538/456/	375	614(30pa)/597 /514/429	763(30pa)/811 /684/575	763(30pa)/81 /684/575
Airflow rate(SI	H/H/IWL)	CFM		346/317/268/22	1	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)	10(10-30)
Sound pressu	re 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	39/37.9/34
Defriesront		Туре			R4	10A		
Refrigerant		Control method			E	⟨∨		
	Net dim.(W×H×D)		740x210x500	740x210x500	740x210x500	740x210x500	960x210x500	960x210x500
Indoor Unit	Gross dim.(W×H×D)	mm	870×285×525	870×285×525	870×285×525	870×285×525	1,115x285x525	1,115x285x525
	Net/Gross weight	kg	17.5/20.5	17.5/20	17.5/20	17.5/20	22.5/26	22.5/26
	L(flare)	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.53
Piping connections	G(flare)	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.9
00111160110113	Drain piping	mm	OD Φ25	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-D140T2/N1-BA5
Power Supply					220~240V-1Ph-50Hz		1
		kW	7.1	8	9	11.2	14
	Cooling	kcal/h	6,100	6,900	7,700	9,600	12,000
		btu/h	24,200	27,300	30,700	38,200	47,800
Capacity		kW	8	9	10	12.5	15.5
	Heating	kcal/h	6,900	7,700	8,600	10,800	13,300
		Btu/h	27,300	30,700	34,100	42,700	52,900
D. (O. 15.4)	Input	W	105	198	200	313	274
Power (Cooling)	Rated Current	Α	0.47	1.0	1.0	1.8	1.55
5 (11 (1)	Input	W	105	198	200	313	274
Power (Heating)	Rated Current	А	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
Indoor air flow (SH/H/M/L)		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
	Туре				R410A		
Refrigerant	Control method				EXV		
Net dimension	W×H×D	mm	1,180x210x500	1,230×270×775	1,230×270×775	1,230×270×775	1,290×300×865
Packing dimension	W×H×D	mm	1,335x285x525	1,355×350×795	1,355×350×795	1,355×350×795	1,400×375×925
Net/Gross Weight		kg	28/31.5	38/46.5	40/48	40/48	49/58
	L(flare)	mm	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53
Piping Connections	G(Flare)	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9
Drain piping		mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller		-		Wired controller KJR-2	9B1/BK-E (6 meters co	nnection wire)	1

- 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 out-let.

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

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



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 su	upply		1-phase,208-230V,60Hz								
		kW	2.2	2.8	3.6	4.5	5.6	7.1			
Cooling	capacity	kcal/h	1900	2400	3100	3900	4800	6100			
		Btu/h	7500	9600	12300	15400	19100	24200			
		kW	2.6	3.2	4.0	5.0	6.3	8.0			
Heating (capacity	kcal/h	2200	2800	3400	4300	5400	6900			
		Btu/h	8200	10900	13600	17100	21500	27300			
Rated	Cooling	W	66	72	77	100	100	125			
input	Heating	VV	66	72	77	100	100	125			
Rated	Cooling		0.24	0.24	0.28	0.48	0.48	0.6			
current	Heating	Α	0.24	0.24	0.28	0.48	0.48	0.6			
۸ : ۱۰۰۰ - ۱۰۰۰	-4-(011/11/11/11)	m³/h	588(30pa) /538/456/375	588(30pa) /538/456/375	614(30pa) /597/514/429	763(30pa) /811/684/575	763(30pa) /811/684/575	1127(30pa)/1029/934/7			
AITHOW 18	ate(SH/H/M/L)	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(exte	rnal static pressure)	Pa	10(10-30)	10(10-30)	10(10-30)	10(10-30)	10(10-30)	10(10-30)			
Sound pre	essure 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			
		Туре	R410A								
Refrigera	ant	Control method			Į.	ΞΧV					
	Net dim.(W×H×D)		29-9/64x8	-17/64x19-11/16(740)x210x500)	37-51/64x8-17/64x19- 11/16(960x210x500)	37-51/64x8-17/64x19- 11/16(960x210x500)	46-29/64x8-17/64x19- 11/16(1180x210x500)			
ndoor Jnit Gross dim.(W×H×D)		in.(mm)	34-1/4×11	-7/32×20-43/64(870	×285×525)	43-57/64×11-7/ 32×20-43/64 (1115×285×525)	43-57/64×11-7/ 32×20-43/64 (1115×285×525)	52-9/16×11-7/ 32×20-43/64 (1335×285×525)			
Net/Gross weight		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)	49.6/57.3(22.5/26)	61.8/69.5(28/31.5)			
	L(flare)	in.(mm)	1/4(Ф6.35)	1/4(Ф6.35)	1/4(Ф6.35)	1/4(Ф6.35)	3/8(Ф9.53)	3/8(Ф9.53)			
Piping connections	G(flare)	in.(mm)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	1/2(Φ12.7)	5/8(Ф15.9)	5/8(Ф15.9)			
	Drain piping	in.(mm)	OD 63/64(Ф25)	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	
Power supply				1-phase,208-		
		kW	8	9	11.2	14
Cooling capacity		kcal/h	6900	7700	9600	12000
		Btu/h	27300	30700	38200	47800
		kW	9	10	12.5	15.5
Heating capacity		kcal/h	7700	8600	10800	13300
		Btu/h	30700	34100	42700	52900
D (1)	Cooling	144	133	134	378	352
Rated input	Heating	W	133	134	378	352
D	Cooling		1	1	1.8	1.55
Rated current	Heating	Α	1	1	1.8	1.55
A: 0	(B.4.(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)/1,905/1,636/1,40
Airflow rate (SH/H	/M/L)	CFM	817/792/686/596	817/792/686/596	1,089/1,059/916/824	1,027/1,121/963/824
ESP(external stati	c pressure)	Pa	20(10-50)	20(10-50)	40(10-80)	40(10-100)
Sound pressure le	vel(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
D. (: .		Туре		R	410A	
Refrigerant		Control method		Е	XV	
	Net dim.(W×H×D)		48-27	/64×10-5/8×30-33/64(1230)×270×775)	50-25/32×11-13/16×34-1 /16(1290×300×865)
Indoor Unit	Gross dim.(W×H×D)	in.(mm)	53-11/3	2×13-25/31×31-19/64(13	55×350×795)	55-1/8×14-49/64×36-27 /64(1400×375×925)
	Net/Gross weight	lbs.(kg)	84/102.5(38/46.5)	88.2/105.8 (40/48)	88.2/105.8 (40/48)	108.0/127.9(49/58)
	L(flare)	in.(mm)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)
Piping connections	G(flare)	in.(mm)	Ф5/8(Ф15.9)	Ф5/8(Ф15.9)	Ф5/8(Ф15.9)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)		OD 63/	64(Ф25)	
Standard controlle	r		W	/ired controller KJR-29B1/E	BK-E (6 meters connection	wire)

- 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)
- 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)
- 3. Sound Level is measured 4.59ft. (1.4m) below the unit.
- * external static pressure are based on high speed indoor airflow.
- * Specifications are subject to change without prior notice for product improvement.

High Static Pressure Duct





Auto Restart



Anti-Cold Air Function



Auto Addressing



Connectable To Duct



Follow Me

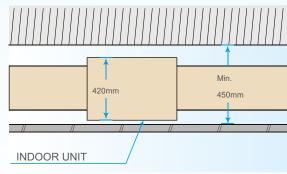


Wired Controller

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.

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

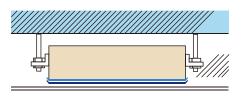
Standard functional port such as remote on/off dry contact.

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)



Model			MDV-D71T1/N1-B	MDV-D80T1/N1-B	MDV-D90T1/N1-B				
Power Supply					220~240V-	1Ph-50Hz			
		kW	7.1	8	9	11.2	14	16	
	Cooling	kcal/h	6,100	6,900	7,700	9,600	12,000	13,800	
0		Btu/h	24,200	27,300	30,700	38,200	47,800	54,600	
Capacity		kW	8	9	10	12.5	16	17	
	Heating	kcal/h	6,900	7,700	8,600	10,800	13,800	14,600	
		Btu/h	27,300	30,700	34,100	42,700	54,600	58,000	
Input		W	263	263	423	524	724	940	
Power (Cooling) Rated Current		А	1.23	1.23	1.87	2.3	2.85	4.77	
D (11 (1 - 1)	Input	W	263	263	423	524	724	940	
Power (Heating)	Rated Current	А	1.23	1.23	1.87	2.3	2.85	4.77	
		m³/h	1,443/1,361/1,218	1,416/1,338/1,220	1,951/1,741/1,518	2,116/1,936/1,520	3,000/2,618/2,226	3,620/3,044/2,744	
Indoor air flow (H/M/L)		CFM	849/801/717	883/788/718	1,148/1,025/893	1,246/1,140/895	1,766/1,541/1,310	2,131/1,792/1,615	
ESP (external static pressi	ure)	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	
	Туре		R410A						
Refrigerant	Control method				E>	(V			
Net dimension	W×H×D	mm	952×420×690	952×420×690	952×420×690	952×420×690	1,300×420×691	1,300×420×691	
Packing dimension	W×H×D	mm	1,090×440×768	1,090×440×768	1,090×440×768	1,090×440×768	1,436×450×768	1,436×450×768	
Net/Gross weight	-	kg	45/50	45/50	46.5/52.4	50.6/56	68/70	70/77.5	
	L(flare)	mm	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53	
Piping connections	G(flare)	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	
	Drain piping	mm	ОДФ32	ОДФ32	ОДФ32	ОДФ32	ОДФ32	ОДФ32	
Standard controller		-		Wired contro	oller KJR-29B1/BK-E (6 meters connection w	ire)		

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		
		kW	20	25	28	40	45	56
	Cooling	kcal/h	17,200	21,500	24,100	34,400	38,700	48,200
0 "		Btu/h	68,200	85,300	95,500	136,500	153,500	191,100
Capacity		kW	22.5	26	31.5	45	50	63
	Heating	kcal/h	19,400	22,400	27,100	38,700	43,000	54,200
		Btu/h	76,800	88,700	107,500	153,500	170,600	214,960
Input		W	1516	1516	1516	2700	2700	3400
Power (Cooling) Rated Current		А	8.6	8.6	8.6	12.5	12.5	15.5
D (11 (5)	Input	W	1516	1516	1516	2700	2700	3400
Power (Heating)	Rated Current	А	8.6	8.6	8.6	12.5	12.5	15.5
		m³/h	4,700/4,100/3,599	4,700/4,100/3,599	4,700/4,100/3,599	7,472/6,072/4,995	7,472/6,072/4,995	9,550/7,950/6,600
Indoor air flow (H/M/L)		CFM	2,766/2,413/2,118	2,766/2,413/2,118	2,766/2,413/2,118	4,398/3,574/2,940	4,398/3,574/2,940	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
	Туре				R41	0A		
Refrigerant	Control method				E>	(V		
Net dimension	W×H×D	mm	1,443×470×810	1,443×470×810	1,443×470×810	1,970×668×902.5	1,970×668×902.5	1,970×668×902.5
Packing dimension	W×H×D	mm	1,509×550×990	1,509×550×990	1,509×550×990	2,095×800×964	2,095×800×964	2,095×800×964
Net/Gross weight		kg	115/129	115/129	115/129	232/245	232/245	235/250
	L(flare)	mm	Ф9.53×2	Ф9.53×2	Ф9.53×2	Ф12.7×2	Ф12.7×2	Ф15.9×2
Piping connections	G(flare)	mm	Ф15.9×2	Ф15.9×2	Ф15.9×2	Ф22.2х2	Ф22.2х2	Ф28.6×2
	Drain piping		ОДФ32	ОДФ32	ОDФ32	ОДФ32	ОДФ32	ОДФ32
Standard controller		-		Wired controller KJR-2	29B1/BK-E (6 meters of	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 out-let.
- $\ensuremath{\bigstar}$ External static pressure is based on high speed indoor air flow.
- $\ensuremath{\star}$ Specifications are subject to change without prior notice for product improvement.

Model			MDV-D71T1/VN1-B	MDV-D80T1/VN1-B	MDV-D90T1/VN1-B				
Power Supply			208~230V-1Ph-60Hz						
		kW	7.1	8	9	11.2			
	Cooling	kcal/h	6,100	6,900	7,700	9,600			
0		Btu/h	24,200	27,300	30,700	38,200			
Capacity		kW	8	9	10	12.5			
	Heating	kcal/h	6,900	7,700	8,600	10,800			
		Btu/h	27,300	30,700	34,100	42,700			
	Cooling		414	402	409	409			
Power input	Heating	- w	414	402	409	409			
	Cooling		1.8	1.8	1.8	2.01			
Rated current Heating		A	1.8	1.8	1.8	2.01			
, , , , , , , , , , , , , , , , , , ,		m³/h	1683/1550/1317	1683/1550/1317	2240/2020/1590	2186/1975/1560			
Indoor air flow (H/M/L)		CFM	990/912/775	990/912/775	1318/1188/935	1286/1162/918			
EXP (external static pres	sure)	Pa	40(30~196)	40(30~196)	40(30~196)	50(30~ 196)			
Sound pressure level(H/I	M/L)	dB(A)	48/46/44.5	48/46/44.5	52/49/47	52/49/47			
Defilement	Туре		R410A						
Refrigerant	Control method		EXV						
Net dimension	W×H×D	in.(mm)	37-31/64×16-17/32×27-11/64(952×420×690)						
Packing dimension	W×H×D	in.(mm)		42-29/32×17-21/64×30	-15/64(1090×440×768)				
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)			
	L(flare)	in.(mm)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)			
Piping connections	G(flare)	in.(mm)	Φ5/8(Φ15.9)	Ф5/8(Ф15.9)	Ф5/8(Ф15.9)	Φ5/8(Φ15.9)			
r iping confidentions	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/Bh	K-E (6m wrie is standard)				

Model			MDV-D140T1/VN1-B	MDV-D160T1/VN1-B					
Power Supply				208~230V-	1Ph-60Hz				
		kW	14	16	40	45			
	Cooling	kcal/h	12,000	13,800	34400	38,700			
		Btu/h	47,800	54,600	136500	153,500			
Capacity		kW	16	18	45	50			
	Heating	kcal/h	13,800	15,500	38700	43,000			
		Btu/h	54,600	61,400	153,500	170600			
Cooling			527	532	1,600	1,600			
Power input Heating		W	527	532	1,600	1,600			
	Cooling		2.2	2.2	7.5	7.5			
Rated current Heating		A	2.2	2.2	7.5	7.5			
Indeed and the state of the sta		m³/h	2969/2688/2469	2969/2688/2469	7083/6200/4630	7083/6200/4630			
Indoor air flow (H/M/L)		CFM	1746/1582/1452	1746/1582/1452	4166/3647/2723	4166/3647/2723			
EXP (external static press	sure)	Pa	50(30~ 196)	50(30~ 196)	196(50~250)	196(50~250)			
Sound pressure level(H/N	1/L)	dB(A)	53/50/48	54/52/50	61/59/56	61/59/56			
D. ()	Туре		R410A						
Refrigerant	Control method		EXV						
Net dimension	W×H×D	in.(mm)	47-1/4×15-3/4×23-5	5/8 (1,200×400×600)	77-9/16×26-19/64×33-5	1/64(1,970×668×858.5)			
Packing dimension	W×H×D	in.(mm)	56-17/32×17-23/32×30	i-15/64(1436×450×768)	82-31/64×31-1/2×37-6	1/64(2,095×800×964)			
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)			
	L(flare)	in.(mm)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)			
Piping connections	G(flare)	in.(mm)	Φ5/8(Φ15.9)	Ф5/8(Ф15.9)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)			
Fibring Confidentions	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 wrie is standard)				

Notes

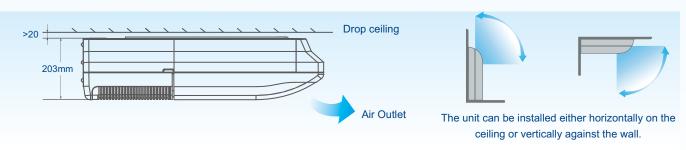
- 1. Nominal cooling capacities are based on the following conditions: return air temperature: 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temperature: 95°F(35°C)DB,equivalent ref. Piping:26.25ft(8m)(horizontal)
- 2. Nominal heating capacities are based on the following conditions: return air temperature: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



Convenient installation



- The slim and sleek structure design ensures easy installation.
- It can be installed into a corner of the ceiling even if the ceiling is very narrow.

Auto swing and wide angle air flow



- Two direction auto swing vertical and horizontal.
- The range of horizontal air discharge is widened which secures wider air flow distribution to provide more comfortable air circulation no matter where the units is set up.
- Three air flow speeds: low, medium and high; double air guides.

More comfortable

- Adopt electrical expansion valve, ensuring precise flow control, lower modulation noise when EXV operating.
- Low noise operations; minimum 36 dB(A).
- Smoother airflow and less turbulence due to the multi-blade fan and the air guide design.

Model			MDV-D36DL/N1-C	MDV-D45DL/N1-C	MDV-D56DL/N1-C				
Power supply			1-phase, 220-240V, 50Hz						
		kW	3.6	4.5	5.6	7.1	8		
Cooling capaci	ity	kcal/h	3,100	3,900	4,800	6,100	6,900		
		Btu/h	12,300	15,400	19,100	24,200	27,300		
		kW	4	5	6.3	8	9		
Heating capaci	ity	kcal/h	3,400	4300	5,400	6,800	7,700		
		Btu/h	13,600	17,100	21,500	27,300	30,700		
	Cooling	10/	49	120	122	125	130		
Power input	Heating	W	49	120	122	125	130		
D	Cooling		0.23	0.67	0.67	0.67	0.83		
Rated current	Heating	A	0.23	0.67	0.67	0.67	0.83		
A. G	140	m³/h	650/570/500	800/600/500	800/600/500	800/600/500	1,200/900/700		
Airflow rate(H/I	M/L)	CFM	383/335/294	471/353/294	471/353/294	471/353/294	706/530/412		
Sound pressur	e level(H/M/L)	dB(A)	40/38/36	43/41/38	43/41/38	43/41/38	45/43/40		
D (1)		Type			R410A	-			
Refrigerant		Control method			EXV				
Net dimension	(W×H×D)	mm	990×203×660	990×203×660	990×203×660	990×203×660	1,280×203×660		
Packing dimen	sion(W×H×D)	mm	1,089×296×744	1,089×296×744	1,089×296×744	1,089×296×744	1,379×296×744		
Net weight		kg	26	28	28	28	34.5		
Gross weight		kg	32	34	34	34	41		
Dinin -	L(flare)	mm	Ф6.35	Ф6.35	Ф9.53	Ф9.53	Ф9.53		
Piping	G(flare)	mm	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9		
connections	Drain piping	mm	OD Φ16	OD Φ16	OD Φ16	OD Φ16	ОДФ16		
Standard Controller -				Wireless remote of	controller(RM05/BG(T)	E-A)			

Model			MDV-D90DL/N1-C	MDV-D112DL/N1-C	MDV-D140DL/N1-C	
Power supply				1-phase, 220-2	240V, 50Hz	
		kW	9	11.2	14	16
Cooling capac	ity	kcal/h	7,700	9,600	13,300	13,800
		Btu/h	30,700	38,200	47,800	54,600
		kW	10	12.5	15	18
Heating capac	ity	kcal/h	8,600	10,800	12,900	15,500
		Btu/h	34,100	42,700	51,200	61,400
	Cooling		130	182	182	300
Power input	Heating	W	130	182	182	300
	Cooling		0.83	1.11	1.11	1.41
Rated current	Heating	A	0.83	1.11	1.11	1.41
		m³/h	1,200/900/700	1,980/1,860/1,730	1,980/1,860/1,730	1,980/1,860/1,730
Airflow rate(H/	M/L)	CFM	706/530/412	1,165/1,095/1,018	1,165/1,095/1,018	1,165/1,095/1,018
Sound pressur	e level(H/M/L)	dB(A)	45/43/40 47/45/42		47/45/42	47/45/42
	, ,	Type	-	R41	0A	
Refrigerant		Control method		EX	(V	
Net dimension	(W×H×D)	mm	1,280×203×660	1,670×244×680	1,670×244×680	1,670×285×680
Packing dimen	sion(W×H×D)	mm	1,379×296×744	1,764×329×760	1,764×329×760	1,775×377×760
Net weight		kg	34.5	54	54	57.5
Gross weight		kg	41	59	59	63.5
	L(flare)		Ф9.53	Ф9.53	Ф9.53	Ф9.53
Piping	G(flare)	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9
connections	Drain piping	mm	ОДФ16	ОДФ16	ОДФ16	ОДФ16
Standard Contr	oller	-	Wireless	remote controller(RM05/BG	(T)E-A)	

Notes

^{1.} Nominal cooling capacities are based on the following conditions: return airtemperature.: 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.



Model			MDV-D36DL/N1-C	MDV-D45DL/N1-C					
Power supply				220~240V-	1Ph-60Hz				
		kW	3.6	4.5	5.6	7.1			
Cooling capac	ity	kcal/h	3,100	3,900	4,800	6,100			
		Btu/h	12,300	15,400	19,100	24,200			
	- 11	kW	4	5	6.3	8			
Heating capac	city	kcal/h	3,400	4300	5,400	6,800			
		Btu/h	13,600	17,100	21,500	27,300			
Cooling		W	50	148	148	148			
Power input	Heating	VV	50	148	148	148			
D-4- d	Cooling	Δ.	0.55	0.55	0.55	0.57			
Rated current	Heating	A	0.55	0.55	0.55	0.57			
A:	Th. 4 / L. \	m³/h	600/480/400	750/650/550	750/650/550	750/650/550			
Airflow rate(H/	IVI/L)	CFM	353/283/235	441/383/324	441/383/324	441/383/324			
Sound pressur	re level(H/M/L)	dB(A)	40/38/36	43/41/38	43/41/38	43/41/38			
D (; ,		Туре	R410A						
Refrigerant		Control method	EXV						
Net dimension	i(W×H×D)	in.(mm)	38-31/32×7-63/64×25-63/64(990×203×660)						
Packing dimer	nsion(W×H×D)	in.(mm)	42-7/8x11-21/32x29-9/32(1089x296x744)						
Net/Gross weig	jht	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)			
Dinin -	L(flare)	in.(mm)	1/4(Ф6.35)	1/4(Ф6.35)	3/8(Ф9.53)	3/8(Ф9.53)			
Piping	G(flare)	in.(mm)	1/2(Ф12.7)	1/2(Φ12.7)	5/8(Ф15.9)	5/8(Ф15.9)			
connections	Drain piping	in.(mm)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)			
Standard contro	oller	-	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-60h	Hz			
		kW	8	9	11.2	14	16		
Cooling capaci	ity	kcal/h	6,900	7,700	9,600	12,000	13,800		
			27,300	30,700	38,200	47,800	54,600		
		kW	9	10	12.5	15	18		
Heating capac	ity	kcal/h	7,700	8,600	10,800	12,900	15,477		
		Btu/h	30,700	34,100	42,700	51,200	61,400		
	Cooling	W	183	183	245	245	378		
Power input	Heating	VV	183	183	245	245	378		
Detect comment	Cooling	Δ.	0.6	0.6	0.83	0.83	1.75		
Rated current	Heating	Α	0.6	0.6	0.83	0.83	1.75		
A : fl (1 1 //	NA/L >	m³/h	1,200/900/700	1,200/900/700	1,980/1,860/1,730	1,980/1,860/1,730	2,300/2,100/1,800		
Airflow rate(H/	IVI/L)	CFM	706/530/412	706/530/412	1,165/1,095/1,018	1,165/1,095/1,018	1,354/1,236/1,060		
Sound pressur	e level(H/M/L)	dB(A)	45/43/40	45/43/40	47/45/42	47/45/42	47/45/42		
D (;)		Type	R410A						
Refrigerant		Control method			EXV				
N. C. P.	(14/-11-15)	in (mana)	50-25/64×7-	63/64×25-63	65-3/4 x9-39	65-3/4x11-7/32x26-49/64			
Net dimension	(vv×H×D)	in.(mm)	/64(1280>	(203×660)	(1670 x2	244x680)	(1670x285x680)		
De die e die e	-:(\\\.\\.\\\.\\\\\\\\\\\\\\\\\\\\\\\\	in (man)	54-19/64x11-2	1/32x29-19/64	69-29/64 x12-6	61/64x29-59/64	69-7/8x14-27/32x29-59/64		
Packing dimen	ision(vv×H×D)	in.(mm)	(1379x2	96x744)	(1764x3	329x760)	(1775x377x760)		
Net/Gross weig	ght	lbs.(kg)	76.1/90.4(34.5/41)	76.1/90.4(34.5/41)	119.0/130.1(54/59)	119.0/130.1(54/59)	126.5/139.7(57.5/63.5)		
D: :	L(flare)	in.(mm)	3/8(Ф9.53)	3/8(Ф9.53)	3/8(Ф9.53)	3/8(Ф9.53)	3/8(Ф9.53)		
Piping	G(flare)	in.(mm)	5/8(Ф15.9)	5/8(Ф15.9)	5/8(Ф15.9)	5/8(Ф15.9)	5/8(Ф15.9)		
connections	Drain piping	in.(mm)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)	OD 5/8(Φ16)		
Standard contro	oller	-		Wireless ren	note controller (RM05	/BG(T)E-A)			
Notes:		-1	1		· · · · · · · · · · · · · · · · · · ·				

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. 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.

Wall-mounted





Auto Restart



Auto Addressing



Cleanable Panel



Anti-Cold Air Function



Follow Me



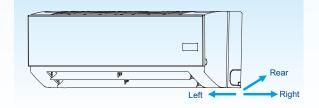
LED Display

Panel with LED display

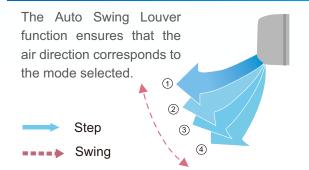
The front panel and display panel have different colors to choose: white and brown for big panel, blue and brown for small panel.

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.

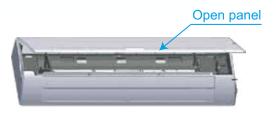


Auto swing louver



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		
Power supply				1	-phase,220-240V,	50Hz		
		kW	1.5	2.2	2.8	3.6	4.5	5.6
Cooling capacit	y	kcal/h	1290	1900	2400	3100	3900	4800
		Btu/h	5100	7500	9600	12300	15400	19100
		kW	1.7	2.4	3.2	4	5	6.3
Heating capacit	у	kcal/h	1470	2100	2800	3400	4300	5400
		Btu/h	5800	8200	10900	13600	17100	21500
Detections.	Cooling	10/	28	28	28	28	45	45
Rated input Heating		W	28	28	28	28	45	45
Detect comment	Cooling	٨	0.12	0.14	0.14	0.14	0.2	0.2
Rated current	Heating	А	0.12	0.14	0.14	0.14	0.2	0.2
A: G . (11/A	4.0	m³/h	427/389/336	525/480/430	525/480/430	590/520/480	860/755/630	925/860/755
Airflow rate (H/N	VI/L)	CFM	251/229/198	309/283/253	309/283/253	347/306/283	506/444/371	544/506/444
Sound pressure	e level(H/M/L)	dB(A)	33/31/28	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
5 (: (Туре			R4	10A		
Refrigerant		Control method			E	XV		
	Net dim.(W×H×D)		915×290×230	915×290×230	915×290×230	915×290×230	1072×315×230	1072×315×230
Indoor Unit	Gross dim.(W×H×D)	mm	1,020×390×315	1,020×390×315	1,020×390×315	1,020×390×315	1,180×415×315	1,180×415×315
	Net/Gross weight	kg	12.4/15.9	13/16.8	13/16.8	13/16.8	15.1/19.5	15.1/19.5
	L(flare)	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.53
Piping connections G(flare)		mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.9
	Drain piping	mm	ODФ16.5	ODΦ16.5	ОДФ16.5	ODΦ16.5	ODФ16.5	ОДФ16.5
Standard contro	oller			Wireless re	mote controller (RI	M05/BG(T)E-A)		

C type panel (50hz)

Model			MDV-D22G/N1YB	MDV-D28G/N1YB	MDV-D36G/N1YB					
Power supply				1-p	hase, 220-240V, 50Hz					
		kW	2.2	2.8	3.6	4.5	5.6			
Cooling capaci	ty	kcal/h	1,900	2,400	3,100	3,900	4,800			
		Btu/h	7,500 9,600 12,300		12,300	15,400	19,100			
		kW	2.4	3.2	4	5	6.3			
Heating capaci	ty	kcal/h	2,100	2,800	3,400	4,300	5,400			
		Btu/h	8,200	10,900	13,600	17,000	21,500			
	Cooling	10/	28	28	28	45	45			
Power input	ower input W		28	28	28	45	45			
Datad aumont	0		0.14	0.14	0.14	0.2	0.2			
Rated current	Heating		0.14	0.14	0.14	0.2	0.2			
		m³/h	520/480/430	520/480/430	520/480/430	860/755/630	925/860/755			
Alfilow rate(n/i	VI/L)	CFM	306/283/253	306/283/253	306/283/253	506/444/371	544/506/444			
Sound pressure	e level(H/M/L)	dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34			
Defilment		Туре	R410A							
Refrigerant		Control method			EXV					
Net dimension(\	N×H×D)	mm	915×290×210	915×290×210	915×290×210	1,070×315×210	1,070×315×210			
Packing dimens	ion(W×H×D)	mm	1,020×385×300	1,020×385×300	1,020×385×300	1,180×410×300	1,180×410×300			
Net weight		kg	12	12	12	15	15			
Gross weight		kg	17.5	17.5	17.5	19	18			
L(flare)		mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.53			
Piping	G(flare)	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.9			
CONNECTIONS	Drain piping	mm	ОДФ16.5	ОДФ16.5	ОДФ16.5	ОДФ16.5	ОДФ16.5			
Standard contro	ller	-		Wireless rem	ote 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.

R type panel (50Hz)

Model			MDV-D71G-R3/N1Y	MDV-D80G-R3/N1Y		
Power supply				1-phase, 220-240V, 50Hz		
		kW	7.1	8	9	
Cooling capaci	ity	kcal/h	6,100	6,900	7,700	
		Btu/h	24,200	27,300	30,700	
		kW	8	9	10	
Heating capac	ity	kcal/h	6,900	7,700	8,600	
		Btu/h	27,300	30,700	34,100	
	Cooling	W	75	86	86	
Power input	Heating	VV	75	86	86	
Datad aumant	Cooling	Α	0.33	0.39	0.39	
Rated current	ated current Heating		0.33	0.39	0.39	
A:	B.4/L.\	m³/h	1,190/780/580	1,320/840/640	1,320/840/640	
Airflow rate(H/	IVI/L)	CFM	700/459/341	776/494/376	776/494/376	
Sound pressur	e level(H/M/L)	dB(A)	47/43/42	48/43/38	49/43/38	
Defilerent		Туре		R410A		
Refrigerant		Control method		EXV		
Net dimension	(W×H×D)	mm		1,250×325×245		
Packing dimen	nsion(W×H×D)	mm		1,345×430×335		
Net weight		kg		19.9		
Gross weight		kg		25		
Piping	L(flare)	mm		Ф9.53		
connections	G(flare)	mm		Ф15.9		
COTTRECTIONS	Drain piping	mm		OD Φ16.5		
Standard contro	oller	-	W	ireless 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					220~240V-1Ph-60Hz					
		kW	2.2	2.8	3.6	4.5	5.6			
Cooling capacity	/	kcal/h	1,900	2,400	3,100	3,900	4,800			
		Btu/h	7,500	9,600	12,300	15,400	19,100			
		kW	2.4	3.2	4	5	6.3			
Heating capacity	/	kcal/h	2,100	2,800	3,400	4,300	5,400			
		Btu/h	8,200	10,900	13,600	17,100	21,500			
5	Cooling	W	28	28	28	51	51			
Power input	Heating 28 28 28 51		51							
Rated current Cooling A		^	0.14	0.14	0.14	0.2	0.2			
Rated current Heating A			0.14	0.14	0.14	0.2	0.2			
Airflow rate (LI/M/L)		m³/h	525/480/430	525/480/430	590/520/480	860/755/630	925/860/755			
Airflow rate(H/M/L)		CFM	309/283/253	309/283/253	347/306/283	506/444/371	544/506/444			
Sound pressure	level(H/M/L)	dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34			
D.C.		Туре	R410A							
Refrigerant		Control method	EXV							
Net dimension(V	V×H×D)	in.(mm)	36-1/32	x11-13/32x9-1/16(915×29	90×230)	42-7/32x12-13/32x9-	1/16(1072×315×230)			
Packing dimens	ion(W×H×D)	in.(mm)	40-5/32x1	5-11/32x12-13/32(1020×	390×315)	46-15/32×16-11/32×12	-13/32(1180×415×315)			
Net weight		lbs.(kg)	28.7(13)	28.7(13)	28.7(13)	33.4(15.1)	33.4(15.1)			
Gross weight		lbs.(kg)	37.1(16.8)	37.1(16.8)	37.1(16.8)	43/19.5	43/19.5			
	L(flare)	in.(mm)	Ф1/4(Ф6.35)	Ф1/4(Ф6.35)	Ф1/4(Ф6.35)	Ф1/4(Ф6.35)	Ф3/8(Ф9.53)			
Piping	G(flare)	in.(mm)	Ф1/2(Ф12.7)	Ф1/2(Ф12.7)	Ф1/2(Ф12.7)	Ф1/2(Ф12.7)	Ф5/8(Ф15.9)			
connections	Drain piping	in.(mm)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)			
Standard contro	ller	-		Wireless rer	note controller (RM05/BG	G(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.



C type panel (60Hz)

Model			MDV-D22G/N1YB	MDV-D28G/N1YB	MDV-D36G/N1YB		MDV-D56G/N1YE					
Power supply					220-240V~, 1Ph, 60Hz							
		kW	2.2	2.8	3.6	4.5	5.6					
Cooling capacit	ver input Cooling Heating ded current Heating	kcal/h	1,900	2,400	3,100	3,900	4,800					
		Btu/h	7,500	9,600	12,300	15,400	19,100					
		kW	2.4	3.2	4	5	6.3					
Heating capaci	capacity kcal/h		2,200	2,800	3,400	4,300	5,400					
		Btu/h	8,900	10,900	13,600	17,100	21,500					
	Cooling	W	28	28	28	45	45					
Power input	Heating	VV	28	28	28	45	45					
D. I. I.	Cooling A		Cooling	۸	А	^	oling	0.14	0.14	0.14	0.2	0.2
Rated current	Heating	A	0.14	0.14	0.14	0.2	0.2					
A ' C	m³/h		557/520/467	557/520/467	557/520/467	842/722/597	842/722/597					
Airflow rate(H/M/L)		CFM	328/306/275	328/306/275	328/306/275	496/425/351	496/425/351					
Sound pressure	e level(H/M/L)	dB(A)	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34					
		Туре	R410A									
Refrigerant		Control method			EXV							
Net dimension((W×H×D)	in.(mm)	36-1/32	x11-13/32x8-9/32(915×29	90×210)	42-7/32×12-13/32×8	-9/32(1070×315×210					
Packing dimens	sion(W×H×D)	in.(mm)	40-5/32×	15-5/32×11-13/16(1020×	385×300)	45-7/8x15-9/16x11-	7/32(1165×395x285)					
Net weight		lbs.(kg)	26.5(12)	26.5(12)	26.5(12)	33.1(15)	33.1(15)					
Gross weight		lbs.(kg)	38.6(17.5)	38.6(17.5)	38.6(17.5)	41.9(19)	39.7(18)					
	L(flare)	in.(mm)	Ф1/4(Ф6.35)	Ф1/4(Ф6.35)	Ф1/4(Ф6.35)	Ф1/4(Ф6.35)	Ф3/8(Ф9.53)					
Piping	G(flare)	in.(mm)	Ф1/2(Ф12.7)	Ф1/2(Ф12.7)	Ф1/2(Ф12.7)	Ф1/2(Ф12.7)	Ф5/8(Ф15.9)					
connections	Drain piping	in.(mm)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)	OD 21/32(Φ16.5)					
Standard contro	oller	-		Wireless	remote controller (RM05/E	BG(T)E-A)	1					

R type panel (60Hz)

Model			MDV-D71G-R3/QN1Y	MDV-D80G-R3/QN1Y	
Power supply				1-phase, 220-240V, 60Hz	
		kW	7.1	8	9
Cooling capaci	ity	kcal/h	6,100	6,900	7,700
		Btu/h	24,200	27,300	30,700
		kW	8	9	10
Heating capac	ity	kcal/h	6,900	7,700	8,600
		Btu/h	27,300	30,700	34,100
	Cooling	W	79	95	95
Power input	Heating	VV	79	95	95
Rated current	Cooling	Δ.	0.33	0.39	0.39
Rated current	Heating A		0.33	0.39	0.39
Airflow roto/LI/	NA/L X	m³/h	1,190/780/580	1,320/840/640	1,320/840/640
Airflow rate(H/	IVI/L)	CFM	700/459/341	776/494/376	776/494/376
Sound pressur	e level(H/M/L)	dB(A)	45/42/39	48/43/38	49/43/38
Defriences		Туре		R410A	
Refrigerant		Control method		EXV	
Net dimension	(W×H×D)	in.(mm)	49-	7/32×12-51/64×9-41/64(1250×325×24	45)
Packing dimen	sion(W×H×D)	in.(mm)	52-6	61/64×16-59/64×13-3/16(1345×430×3	35)
Net weight		lbs.(kg)		43.8 (19.9)	
Gross weight		lbs.(kg)		55.1 (25)	
Dining	L(flare)	in.(mm)		Ф3/8(Ф9.53)	
Piping	G(flare)	in.(mm)		Ф5/8(Ф15.9)	
connections	Drain piping	in.(mm)		OD 21/32(Φ16.5)	
Standard contro	oller	-	Wire	eless remote controller (RM05/BG(T)E	E-A)

- 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.

Floor Standing



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.

Optional panel styles



Concealed type's body is concealed in the skirting board to improve aesthetics. The body is just 212mm deep, and can be installed at the room's perimeter. Special installation methods eliminate noise in the room area. Both air intake from front and air intake from below is optional for exposed floor standing type.



Air intake from front(F4 series)



Air intake from below(F5 series)



	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
Power supply					1-	phase,220-240V	,50Hz		
		kW	2.2	2.8	3.6	4.5	5.6	7.1	8
Cooling capacity	y	kcal/h	1900	2400	3100	3900	4800	6100	6900
		Btu/h	7500	9600	12300	15400	19100	24200	27300
		kW	2.4	3.2	4	5	6.3	8	9
Heating capacit	у	kcal/h	2100	2800	3400	4300	5400	6900	7700
		Btu/h	8200	10900	13600	17100	21500	27300	30700
Dated input	Cooling	10/	40	46	46	49	88	130	130
Rated Input	Rated input Heating W		40	46	46	49	88	130	130
Dated aumont	Cooling	А	0.18	0.21	0.22	0.22	0.4	0.56	0.59
Rated current	ated current Heating		0.18	0.21	0.22	0.22	0.4	0.56	0.59
Airflow roto (LL/N/	1/1.)	m³/h	530/456/400	569/485/421	624/522/375	660/542/440	1,150/970/830	1,380/1,100/870	1,380/1,100/870
Airflow rate(H/N	I/L)	CFM	312/268/235	335/285/248	367/307/221	388/319/259	677/571/489	812/647/512	812/647/512
Sound pressure	level (H/M/L)	dB(A)	36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33
Defricement		Туре				R410A			
Refrigerant		Control method				EXV			
	Net dim.(W×H×D)	100 100	840×545×212	840×545×212	1,040×545×212	1,040×545×212	1,340×545×212	1,340×545×212	1,340×545×212
Indoor Unit	Gross dim.(W×H×D)	mm	939×639×305	939×639×305	1,139×639×305	1,139×639×305	1,425×639×305	1,425×639×305	1,425×639×305
	Net/Gross weight	kg	25/27	25/27	29.5/34	29.5/34	33/39	33/39	36/40
Piping	L(flare)	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.53	Ф9.53	Ф9.53
connections	G(flare)	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9
	Drain piping	mm	ОДФ16						
Standard contro	ller			Wir	eless remote co	ntroller (RM05/B	G(T)E-A)		

	Model		MDV-D22Z/N1-F4	MDV-D28Z/N1-F4	MDV-D36Z/N1-F4							
	Model		MDV-D22Z/N1-F5	MDV-D28Z/N1-F5	MDV-D36Z/N1-F5							
Power supply				1-phase, 220-240V, 50Hz								
		kW	2.2	2.8	3.6	4.5	5.6	7.1	8			
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	6,900			
		Btu/h	7,500	9,500	12,300	15,400	19,100	242,00	27,300			
		kW	2.4	3.2	4	5	6.3	8	9			
Heating capacity		kcal/h	2,100	2,800	3,400	4,300	5,400	6,900	7,700			
		Btu/h	8,200	10,900	13,600	17,100	21,500	27,300	30,700			
Power input Cooling W		14/	40	46	46	49	88	130	130			
Power input	Heating	VV	40	46	46	49	88	130	130			
2-41	Cooling		0.18	0.19	0.22	0.22	0.43	0.63	0.63			
Airflow rate(H/M/L)		А	0.18	0.19	0.22	0.22	0.43	0.63	0.63			
		m³/h	530/456/400	569/485/421	624/522/375	660/542/440	1,150/970/830	1,380/1,100/870	1,380/1,100/870			
		CFM	312/268/235	335/285/248	367/307/221	388/319/259	677/571/489	812/647/512	812/647/512			
Sound pressure	F4	dB (A)	36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33			
evel(H/M/L)	F5	UB (A)	36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33			
2 - 6-1	Туре			'		R410A	'	'	'			
Refrigerant	Control method					EXV						
Net dimension	F4	mm	1,000×596×225	1,000×596×225	1,200×596×225	1,200×596×225	1,500×596×225	1,500×596×225	1,500×596×225			
W×H×D)	F5		1,000×677×220	1,000×677×220	1,200×677×220	1,200×677×220	1,500×677×220	1,500×677×220	1,500×677×220			
Packing dimension	F4		1,089×683×312	1,089×683×312	1,289×683×312	1,289×683×312	1,589×683×312	1,589×683×312	1,589×683×312			
w×H×D)	F5	mm	1,182×683×312	1,182×683×312	1,382×683×312	1,382×683×312	1,682×683×312	1,682×683×312	1,682×683×312			
Net/Gross	F4		30/35	30/35	36/44	36/44	41/46.5	41/46.5	42.5/48.5			
veight	F5	kg	30/38	30/38	35.5/41	35.5/41	42/51	42/51	44/53			
	L(flare)	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.53	Ф9.53	Ф9.53			
Piping	G(flare)	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9			
connections G(liare) Drain piping												

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



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	
Power supply				1-phase, 220	-240V, 50Hz	
		kW	2.2	2.8	3.6	4.5
Cooling capaci	ity	kcal/h	1,900	2,400	3,100	3,900
		Btu/h	7,500	9,600	12,300	15,400
		kW	2.6	3.2	4.0	5.0
Heating capaci	ity	kcal/h	2,200	2,800	3,400	4,300
		Btu/h	8,900	10,900	13,600	17,100
Cooling			20	25	25	45
Power input	Heating	W	20	25	25	45
Detect comment	Cooling		0.09	0.11	0.15	0.2
Rated current	Heating	A	0.09	0.11	0.15	0.2
		m³/h	430/345/229	510/430/229	510/430/229	660/512/400
Airflow rate(H/I	M/L)	CFM	253/203/135	300/253/135	300/253/135	388/300/235
Sound pressure	e level(H/M/L)	dB(A)	38/32/26	39/33/27	39/33/27	42/39/36
		Туре		R41	0A	
Refrigerant		Control method		EX	(V	
Net dimension	(W×H×D)	mm	700×210×600	700×210×600	700×210×600	700×210×600
Packing dimen	ısion(W×H×D)	mm	810×305×710	810×305×710	810×305×710	810×305×710
Net weight		kg	14	15	15	15
Gross weight		kg	19	20	20	20
	L(flare)	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35
Piping	G(flare)	mm	Ф12.7	Ф12.7	Ф12.7	Ф12.7
connections	Drain piping	-	OD Ф16	OD Φ16	OD Φ16	OD Φ16
Standard contr	roller			Wireless remote control	oller(RM05/BG(T)F-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 1m from the air outlet in horizontal distance and 1m above the floor in vertical distance.

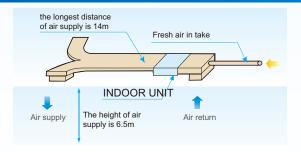
Fresh Air Processing Unit



Healthy and comfortable

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

100% Fresh air processing unit



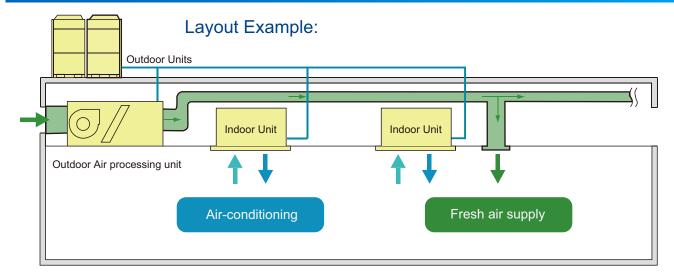
Both fresh air filtration and heating/cooling can be achieved in a single system.

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





Model			MDV-D125T1/N1-FA	MDV-D140T1/N1-FA	MDV-D200T1/N1-FA	MDV-D250T1/N1-FA	
Power Supply					1-phase, 220-240V, 5	50Hz	I .
		kW	12.5	14	20	25	28
	Cooling	kcal/h	10,800	12,000	17,200	21,500	24,100
Capacity		Btu/h	42,700	47,800	68,200	85,300	95,500
Сараспу		kW	10.5	12	18	20	22
	Heating	kcal/h	9,000	10,300	15,550	17,200	18,900
		Btu/h	35,800	41,000	61,400	68,200	75,100
D (O!:)	Input	W	430	430	1063	1,063	1063
Power (Cooling)	Rated Current	Α	2.4	2.4	5.3	5.6	5.6
D (11ti)	Input	W	461	430	1063	1,063	1,063
Power (Heating)	Rated Current	Α	2.4	2.4	5.3	5.6	5.6
Air flow (H/M/L)	·	m³/h	2,142/1,870/1,611	2,142/1,870/1,611	2,870/2,620/2,150	3,005/2,700/2,250	3,005/2,700/2,250
All llow (H/IVI/L)		CFM	1,261/1101/948	1,261/1101/948	1,689/1,542/1,265	1,766/1,589/1,324	1,766/1,589/1,324
ESP (external static pro	essure)	Pa	50(50~196)	50(50~196)	200(50~280)	200(50~280)	200(50~280)
Sound pressure level(H	H/M/L)	dB(A)	54/52/50	54/52/50	54/53/51	55/54/52	55/54/52
Defricerent	Туре				R410A		
Refrigerant	Control method				EXV		
Net dimension	W×H×D	mm	1,300×420×690	1,300×420×690	1,443×470×810	1,443×470×810	1,443×470×810
Packing dimension	W×H×D	mm	1,436×450×768	1,436×450×768	1,509×550×990	1,509×550×990	1,509×550×990
Net/Gross weight		kg	69.5/76	69.5/76	115/125	115/125	115/125
	L(flare)	mm	Ф9.53	Ф9.53	Ф9.53	Ф9.53	Ф9.53
Piping connections	G(flare)	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9
	Drain piping	mm	OD Φ25	OD Φ25	OD Ф32	OD Ф32	OD Ф32
Standard controller		-	Wired	controller KJR-29B1/B	K-E (6 meters connec	tion wire)	

Model			MDV-D125T1/VN1-FA	MDV-D140T1/VN1-FA					
Power Supply					208~230V-1Ph-60Hz		<u>I</u>		
		kW	12.5	14	20	25	28		
	Cooling	kcal/h	10,800	12000	17,200	21,500	24,100		
		Btu/h	42,600	47,800	68,200	85,300	95,500		
Capacity		kW	10.5	12	18	20	22		
	Heating	kcal/h	9,000	10,300 15,500 17,200 41,000 61,400 68,200 468 616 616 468 616 616 2.4 4.2 4.4 2.4 4.2 4.4 2,142/1,870/1,611 2,870/2,620/2,150 3,005/2,700/2,250 1,261/1,101/948 1,689/1,542/1,265 1,766/1,589/1,324 50(50~196) 200(50~280) 200(50~280) 53/50/48 54/53/51 55/54/52		18,900			
		Btu/h	36,000	41,000	61,400	68,200	75,000		
	Cooling		468	468	616	616	616		
Power input W 468 468 616 616						616			
Rated current	Cooling	Α	2.4	2.4	4.2	4.4	4.4		
						4.4			
door oir flow (H/M/L)			2,142/1,870/1,611	2,142/1,870/1,611	2,870/2,620/2,150	3,005/2,700/2,250	3,005/2,700/2,250		
Indoor air flow (H/M/L)		CFM	1,261/1,101/948	1,261/1,101/948	1,689/1,542/1,265	1,766/1,589/1,324	1,766/1,589/1,324		
ESP (external static pressu	ure)	Pa	50(50~196)	50(50~196)	200(50~280)	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	55/54/52		
	Туре			1	R410A	1	1		
Refrigerant	Control method				EXV				
Net dimension	W×H×D	in.(mm)	51-3/16×16-17/32×27-	-11/64(1300×420×690)	56-13/10	6×18-1/2×31-57/64(1443×4	70×810)		
Packing dimension	W×H×D	in.(mm)	56-17/32×17-23/32×3	0-1/4(1,436×450×768)	59-13/32>	×21-21/32×38-31/32(1,509×	550×990)		
Net/Gross weight		lbs.(kg)	153.2/167.5(69.5/76)	153.2/167.5(69.5/76)	251/274(114/124)	251/274(114/124)	251/274(114/124)		
	L(flare)		Ф3/8(Ф9.53)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)	Ф3/8(Ф9.53)		
Piping connections	` '		Ф5/8(Ф15.9)	Ф5/8(Ф15.9)	Ф5/8(Ф15.9)	Ф5/8(Ф15.9)	Ф5/8(Ф15.9)		
	Drain piping in.(n			OD	1-17/64(Ф32)				
Standard controller	1	-	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.

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

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

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

 4. When outdoor-air processing units and standard indoor units are connected, the total connection capacity of the outdoor-air processing units.

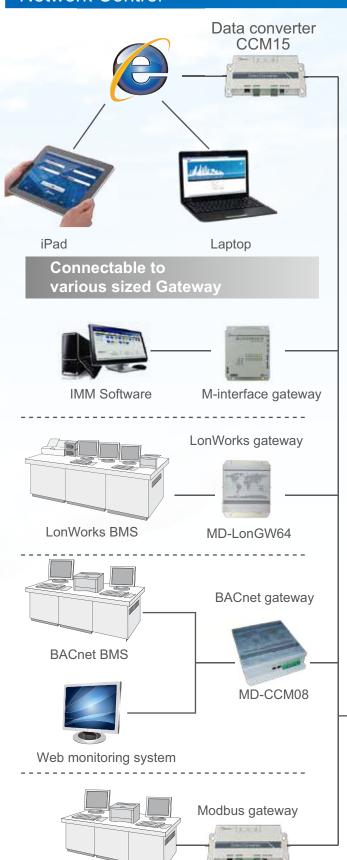
 5. Outdoor-air processing units can be used without indoor units.
- Outdoor-air processing units can be used without indoor units.
 The fresh air processing unit is not available for V4+R system.Connection Conditions:The following restrictions must be observed in order to maintain the indoor units connected to the same system.





Control Systems

Network Control



CCM-18A

Centralized Control

Indoor Centralized Controller (Touch key)



X,Y,E

CCM30

Indoor Centralized Controller



X,Y,E

MD-CCM03

Outdoor Centralized Monitor

F1,F2,E



K1,K2,E

MD-CCM02

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

Modbus BMS

Individual control

Wired controller

KJR-10B KJR-86C KJR-12B KJR-120B KJR-90A KJR-90C KJR-29B KJR-120C



Remote controller

RM02

RM05

R05

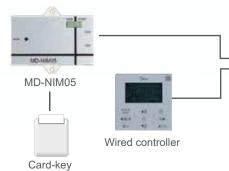
R51





Accessories

Card-key Interface MD-NIM05



Infrared Sensor MD-NIM09



Outdoor units



Comparison of Controllers

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

Available controller functions

— : Not available controller functions

Wireless Remote Controller



Functions

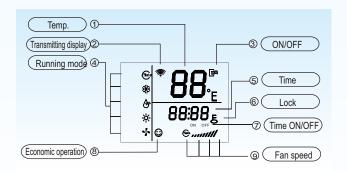
Portable device

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.

Auto mode Dry mode Heat mode Cool mode Fan mode Fan mode Lock Eco mode Address setting The follow me function is available for RM02

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.



The indoor unit is set to work in automode from 8:00 to 20:00



Model	RM02	RM05	R05	R51	R71				
Dimensions (H×W×D)(mm)	150×60×15	150×65×20 150×65×20		140×60×15	125×42×27				
Power (V)	1.5V(LR03/AAA)×2								





KJR-29B



KJR-90C













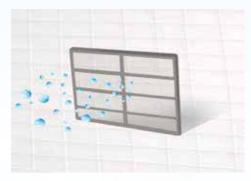
Fan mode Silent me

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 (H×W×D)(mm)	120×120×20	86×86×16.5
Power (V)	DC:	5V







KJR-12B











ol mode Fan mode

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.

*Follow me function is available for KJR-12B, KJR-29B and KJR-90C 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

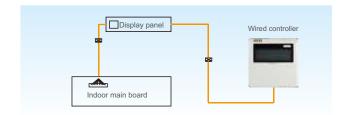
Built-in daily timer offers the convenience of automatically starting and stopping the system at set times.



The indoor unit is set to work in automode from 8:00 to 20:00

Easy connection

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



Specifications						
Model	10B					
Dimensions (H×W×D)(mm)	120×120×15	120×120×15				
Power (V)	DC 5V					









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



KJR-90A

Built-in timer

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

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.



KJR-86C

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)



KJR-120B

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

HRV Wired Controller



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.

		example sday: 8:0		0:00				
		ON		2	4°C		OF	F
0	3	6	9	12	15	18	21	Time

Specifications

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

Weekly Schedule Controller

MD-CCM04 KJR-120C





Functions

Simple disign

Weekly schedule wired controller has different appearances to choose. They can query the indoor temperature and the setting parameters of the weekly schedule. They can show the error codes and running state of the indoor unit. With the LCD backlight, and enables 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, then it will delay 1 hour or 2 hours to turn off the air conditioner.

Weekly schedule

With the weekly schedule function, and users can set up 4 periods schedule per day to avoid setting frequently. During operation, can change the mode, fan speed, temperature, and then the next startup will run at the status according to the latest setting.

•		
Model	MD-CCM04	KJR-120C
Dimensions (H*W*D)(mm)	120×120×15	120×120×20
Power (V)	DC 5V	DC 12V



Centralized Controller

Indoor Centralized Controller





Swing



Filter cleaning



Heat mode



MD-CCM03



CCM30





Remote controller lock



Fan mode

Cooling lock



Heating lock Net connection

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.

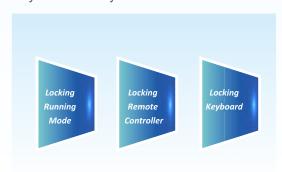
The device connects to the master outdoor units of Midea's newly designed products to simplify and centralize the wiring configuration. The 2 ways of connecting are as follow:



*If it connects to XYE ports of master ODU, ODU must be set to auto addressing mode.

Three lock modes

Centralized controller 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 centralized controller's keyboard as they wish.



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.

Error code or Connecting protection code status matrix GROUP QUERY RUN SET ७ ∅ № 倉 MODE (ad) 2 (3) 34 4 5 60 07 08 09 10 11 12 13 14 15 16 I SET.TEMP ROOM.TEMP 32+ BBC 4T3 CT2A BBC Hr FAN OOOO 🦹 🖷 📵 📵 приприприпринцинини

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.



Functions

Stylish design

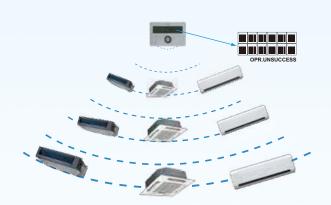
CCM's stylish design suits high-end environments. The keyboard lock function is used to prevent operational mistakes.



Single/unified control

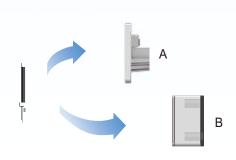
The control object can be either a single unit or all units, which vastly simplifies the control process.

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.





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.



Model	MD-CCM03	ССМ30					
Dimensions (H*W*D)(mm)	179×119×74	180×122×78 and 180×122×68					
Power (V)	198-242V(50/60Hz)						



Centralized Controller

Weekly Schedule Centralized Controller

MD-CCM09













Cooling lock



Dry mode

Heating lock



Remote controller lock

Keyboard lock

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.

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.



8.00 16:00 23:59 28°C Sun Thu Fri

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.



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.

*If it connects to XYE ports of master ODU, ODU must be set to auto addressing mode.

Error c											or tat				_				
Current All Pa	Set, temp	Mode	Auto						Qu	ery	, :	Set	Ļ		0рі	r. u	nsı	ICC	ess
88" ALL Pr	Error 88 [-		SEC.	00	01	02	03	04	05	06	07	80	09	10	11	12	13	14	15
T2A T2B T3 Period	Room, temp	*	.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
88 80 • • •	88 80	*	g.Gr	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Week Sun Mon Tue Wed	Thu Fri Sat	-		48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
88,18,38	,88:88	*	111	We	ek I y	Th	mer	0ff	L) (0	M	t	. 1	6	9	0	<u>}</u> [0

Model	MD-CCM09
Dimensions (H*W*D)(mm)	179×119×74
Power (V)	198-242V(50/60Hz)

Centralized Controller

Unified On/Off Controller

KJR-90B

Unified controller design with graceful appearance and explicit panel. Can control single or group indoor units.



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			
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:



Model	KJR-90B
Dimensions (H*W*D)(mm)	90×86×8
Power (V)	DC 5V



Centralized Monitor

Outdoor Centralized Monitor

MD-CCM02









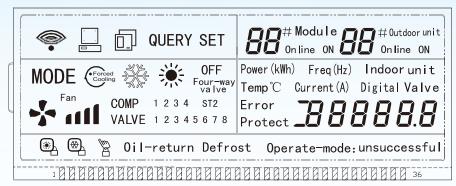


Forced Cooling

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.



Graph 2 LCD Screen

Access to network monitoring

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



Model	MD-CCM02
Dimensions(H×W×D)(mm)	120×120×15
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.

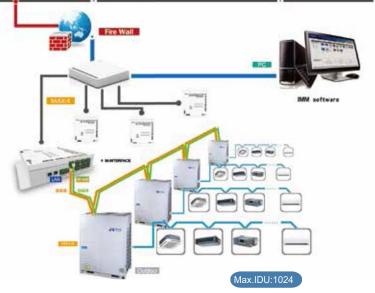
- Up to 4 M-interfaces, 64 refrigerant systems, 1,024 indoor units, and 256 outdoor units can be controlled by one PC.
- Web Access
- User friendly operation
- Central building monitoring and control
- Energy saving management
- SMS modem (optional)

- Electricity charge distribution
- Schedule management
- Low-load operation indicate
- Generate operational history reports (daily, weekly, monthly)
- Fault display & Warning message
- Air filter cleaning reminding function
- Emergency stop and Alarm signal output

Network Control Application

Web Access Local Web Access Web Access IP/Ethernet

- Can run on Window 7_32/64 bit, Window XP_32 bit and Window 8.
- Can monitor and control A/C anytime, anywhere by PC, iPhone, iPad and notebook computer.
- Support WEB access: IE, Firefox, Safari and Chrome.
- Enables remote access through DSL, VPNs and so on.



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.

Hightlights



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 French Italian
Russian German Spanish

Simple Chinese



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.

Weekly schedule control

- With weekly schedule function for iPad and Web function.
- 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 and control the running state of the air conditioner any time and any where and even make an appointment in advance.
- Can remotely turn off the air conditioner to avoid the power waste, when you are in a hurry to leave.





BACnet® BMS Gateway

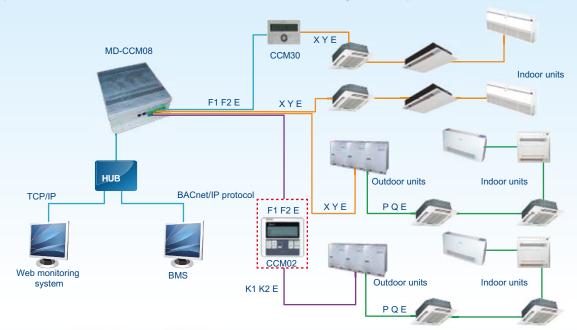
MD-CCM08

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. Built-in WEB function.



Network example

Each port can connect to XYE ports of IDU/ODU or the K1K2E ports of the outdoor units. Each port can also connect to one CCM03 or one CCM02 through F1F2E ports.



*If it connects to XYE ports of master ODU, ODU must be set to auto addressing mode.

Monitoring units online

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

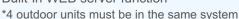
Wide compatibility

CCM08 has a wonderful adaptability to the BMS

	Company	BMS software	Brand
1	SIMENS	APOGEE	APOGEE
2	TRANE	Tracer Summit	TRACER SUMMT
3	Honeywell	Alerton	ALERTON'
4	Schneider	Andover	Andover Controls
5	Johnson	METASYS	METASYS.

Modbus BMS Gateway CCM-18A

Supports Modbus protocol networks
Bridges the Midea central A/C system to BMS
Connect up to 64 or 16 indoor units and 4 outdoor units
Built-in WEB server function





Network example

1)TCP connection method



2) RTU connection method



- *1. If it connects to XYE ports of master ODU, ODU must be set to auto addressing mode.
- 2. XYE and K1K2E must be connected hand by hand.

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.



LonWorks® BMS Gateway MD-LonGW64

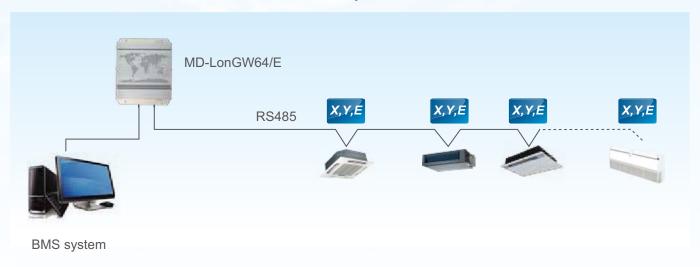
Compliance with LonMark protocol, and realizes the management and control of A/C. Can connect up to 64 indoor units to the BMS.

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.



^{*}If it connects to XYE ports of master ODU, ODU must be set to auto addressing mode.

Specifications				
Model	MD-LonGW64			
Dimensions (H*W*D)(mm)	319×251×61			
Power (V)	177~265V AC(50Hz/60Hz)			

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					
iviodei	HWUA	DPA53CM23	HWUA	DPB71CM48	
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	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(W×H×D)(mm)	90×69×35	81×67.2×17.5	90×69×35	81×67×35	81×67.2×17.5

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.

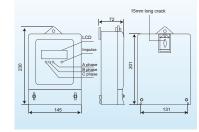


Low power consumption

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)	230×145×72
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)	150×85×70
Power (V)	198-242V(50/60Hz)

Indoor Unit Group Controller KJR-150A



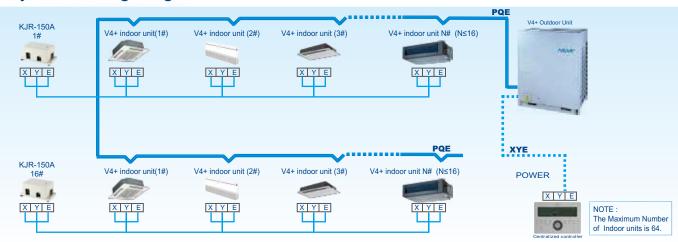
Functions

Simple design

KJR-150A is a indoor group controller, designed specifically for V4 plus indoor units. It can connect up to 16 indoor units through XYE ports.

With a display panel connected to KJR-150A, signal from wired controller and remote controller can control a group of indoor units simultaneously and all indoor units will run at the same setting parameters. You can also control the indoor units separately in each room by remote controller. The indoor unit will run at the state according to the latest setting.

System wiring diagram



^{*} If you need to use a centralized controller, you can connect to the XYE from an outdoor unit.

Specifications

Model	KJR-150A
Dimensions (H*W*D)(mm)	150×85×70
Power (V)	198-242V(50/60Hz)

Infrared sensor controller

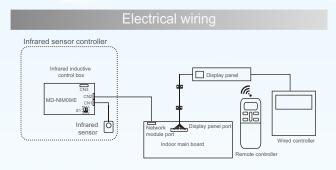
MD-NIM09

Automatically adjust the room environment.

Automatically extend the shutting down time, avoiding frequent ON/OFF. Graceful appearance accommodates itself to different buildings.







Remote controller or wired controller can control indoor unit.

Specifications	
Model	MD-NIM09
Dimensions(H×W×D)(mm)	Senor part: 46×30×25.6, Control box: 86×72.8×15.5
Power	DC 5V

Hotel Card Key Interface Module

MD-NIM05

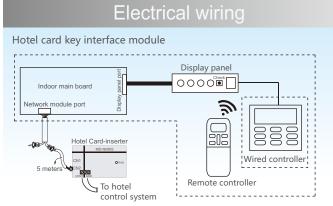
Cooperate with the wired controller to automate control. Eliminates the need for high voltage power, making the device safe and steady.

Includes a build-in auto-restart function.

Remote controller or wired controller can control indoor unit.







Specifications

Model	MD-NIM05
Dimensions (H*W*D)(mm)	86×72.8×15.5
Power (V)	DC 5V



AHU Control Box AHUKZ-01A/AHUKZ-02A/AHUKZ-03A

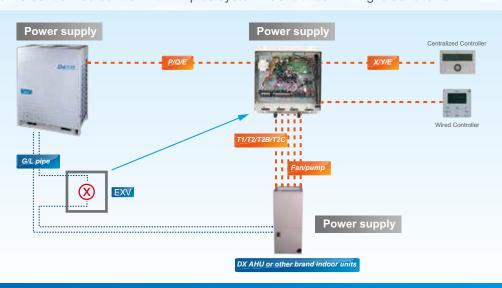
V4+ functions inside.





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(H×W×D)(mm)	335×375×150
Power (V)	220-240V~ 50Hz 208-230V~ 60Hz

Midea Outdoor Unit Diagnosis Software MCAC-DIAG/E

Display the outdoor units' real-time running conditions.

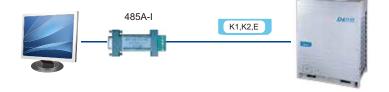
Automatically outputs running status charts.

Supports V3, V4, V4+, D3, D4, V4+S and V4+R 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

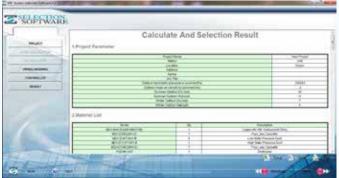
To meet consultants' and distributors' requirements, Midea has developed an advanced design automation tool that can be used in AutoCAD-based CAD version or Windows-based Sales version. The software provides quick and convenient selectable options for users, supports multiple languages, and greatly improves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





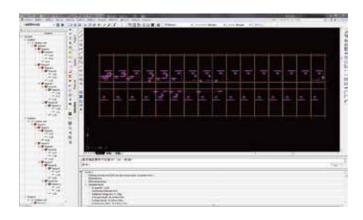
CAD Version

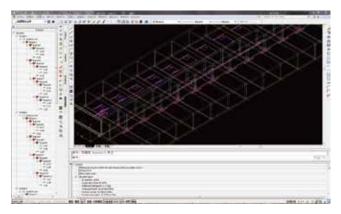
AutoCAD add-on software

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%.

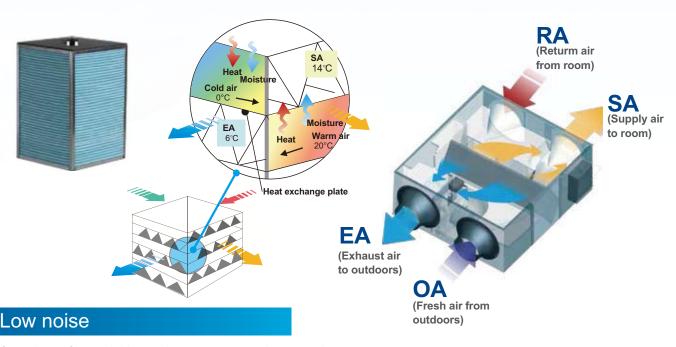
Model Names

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



HRV-1500 HRV-2000

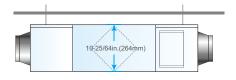




Sound proof material is used to guarantee quiet operation.

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

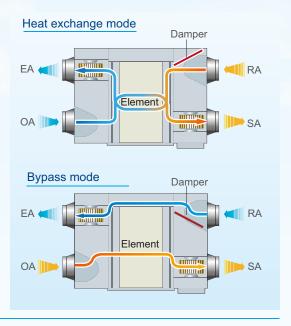
Heat exchange mode

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.





/lodel				HRV-200	HRV-300	HRV-400	HRV-500
ower sup	ply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50 (220/1/60)	220-240/1/50 (220/1/60
	Temperature	High	%	55	55	55	55
	exchange	Medium	%	55	55	55	55
a a lina	efficiency	Low	%	60	60	60	60
ooling	Enthalpy	High	%	50	50	50	50
	exchange	Medium	%	50	50	50	50
	efficiency	Low	%	55	55	55	55
	Temperature	High	%	60	60	60	65
	exchange	Medium	%	60	60	60	65
	efficiency	Low	%	65	65	65	70
Leating L	Enthalpy	High	%	55	55	60	60
	exchange	Medium	%	55	55	60	60
	efficiency	Low	%	60	60	65	65
	Heat	High	dB(A)	27	30	32	35
	exchange	Medium	dB(A)	26	29	31	34
ound	mode	Low	dB(A)	20	23	25	28
ressure		High	dB(A)	28	31	33	36
	Bypass	Medium	dB(A)	27	30	32	35
	mode	Low	dB(A)	22	25	27	30
			mm	866×655×264	944×722×270	944×927×270	1038×1026×270
let dimens	sion (W×D×H)		inch	34-1/8×25-3/4×10-3/8	37-3/16×28-27/64×10-5/8	37-3/16×36-1/2×10-5/8	40-7/8×40-3/8×10-5/8
			mm	930×730×445	1010×800×450	1010×1010×450	1120×1120×452
acking size	ze (W×D×H)		inch	36-5/8×28-3/4×17-1/2	39-3/4×31-1/2×17-3/4	39-3/4×39-3/4×17-3/4	44-1/8×44-1/8×17-13/1
lot/cross	woight			23/40	26/44		
let/gross	weigni		kg(lbs)	23/40	26/44 Galvanized	31/52(68.3/114.4)	41/64(90.4/140.8)
Casing	anna avatam			A in to			
	ange system			Air to	air cross flow total heat (sen		nange
	ange element i	material			Specially processed		
	Туре		2 (() = 1 ()	000	Centrifu	<u> </u>	500(004.5)
	A: 61	High	m³/h(CFM)	200	300	400(235.6)	500(294.5)
	Airflow rate	Medium	m³/h(CFM)	200	300	400(235.6)	500(294.5)
an		Low	m³/h(CFM)	150	225	300(176.7)	375(220.8)
		High	Pa	75	75	80	80
	ESP	Medium	Pa	58	60	65	68
		Low	Pa	35	40	43	45
	Motor output		W	20	40	80	120
ouct diame	eter		mm(in.)	Ф144	Ф144	Ф144(5-5/8)	Ф194(7-5/8)
nerating	temperature ra	ange	°C		-7~43 DB, 80	% RH or less	
poraming	tomporataro re						
			°F		19.4~109.4 DB,	80% RH or less	
/lodel			°F	HPV-800			HPV-2000
Model	nnly			HRV-800	HRV-1000	HRV-1500	HRV-2000
ower sup		Himb	V/Ph/Hz	220-240/1/50 (220/1/60)	HRV-1000 220-240/1/50 (220/1/60)	HRV-1500 380-415/3/50 (280/3/60)	380-415/3/50 (280/3/60
ower sup	Temperature	High	V/Ph/Hz %	220-240/1/50 (220/1/60) 55	HRV-1000 220-240/1/50 (220/1/60) 55	HRV-1500	
ower sup	Temperature exchange	Medium	V/Ph/Hz %	220-240/1/50 (220/1/60) 55 55	HRV-1000 220-240/1/50 (220/1/60) 55 55	HRV-1500 380-415/3/50 (280/3/60)	380-415/3/50 (280/3/60
ower sup	Temperature exchange efficiency	Medium Low	V/Ph/Hz % %	220-240/1/50 (220/1/60) 55 55 60	HRV-1000 220-240/1/50 (220/1/60) 55 55 60	HRV-1500 380-415/3/50 (280/3/60) 55 /	380-415/3/50 (280/3/60 55 /
ower sup	Temperature exchange efficiency Enthalpy	Medium Low High	V/Ph/Hz % % %	220-240/1/50 (220/1/60) 55 55 60 50	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50	HRV-1500 380-415/3/50 (280/3/60)	380-415/3/50 (280/3/60 55 / / 50
ower sup	Temperature exchange efficiency Enthalpy exchange	Medium Low High Medium	V/Ph/Hz % % % %	220-240/1/50 (220/1/60) 55 55 60 50 50	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50	HRV-1500 380-415/3/50 (280/3/60) 55 /	380-415/3/50 (280/3/60 55 /
ower sup	Temperature exchange efficiency Enthalpy exchange efficiency	Medium Low High Medium Low	V/Ph/Hz % % % % %	220-240/1/50 (220/1/60) 55 55 60 50 50 55	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 /	380-415/3/50 (280/3/60 55 / / 50 /
cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature	Medium Low High Medium Low High	V/Ph/Hz % % % % % % %	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65	HRV-1500 380-415/3/50 (280/3/60) 55 /	380-415/3/50 (280/3/60 55 / / 50
Cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange	Medium Low High Medium Low High Medium Medium	V/Ph/Hz % % % % % % % %	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 /	380-415/3/50 (280/3/60 55 / / 50 /
cooling -	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency	Medium Low High Medium Low High Medium Low Hodium Low	V/Ph/Hz % % % % % % % %	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 70	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 70	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / 65 /	380-415/3/50 (280/3/60 55 / / / 50 / 65 /
cooling -	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy	Medium Low High Medium Low High Medium Low High Medium Low High	V/Ph/Hz % % % % % % % % %	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 70 60	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 70 60	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 /	380-415/3/50 (280/3/60 55 / / / 50 /
Cooling -	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange	Medium Low High Medium Low High Medium Low High Medium Low High Medium	V/Ph/Hz % % % % % % % % % % % %	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 70 60 60	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 60 60	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / 65 /	380-415/3/50 (280/3/60 55 / / / 50 / 65 /
cooling -	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency	Medium Low High Medium Low High Medium Low High Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % % % %	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 70 60 60 65	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 60 60 60	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / 66 / / 60	380-415/3/50 (280/3/60 55 / / 50 / 65 / / 65 / /
cooling -	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange	Medium Low High	V/Ph/Hz % % % % % % % % % % % % % % % dB(A)	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 60 60 60 60 65 39	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 65 70 60 60 65	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / 65 /	380-415/3/50 (280/3/60 55 / / / 50 / 65 /
Cooling -	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency	Medium Low High Medium Low High Medium Low High Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % % % %	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 70 60 60 65	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 60 60 60	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / 66 / / 60	380-415/3/50 (280/3/60 55 / / 50 / 65 / / 65 / /
Cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency Heat	Medium Low High	V/Ph/Hz % % % % % % % % % % % % % % % dB(A)	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 60 60 60 60 65 39	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 65 70 60 60 65	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / 66 / / 60	380-415/3/50 (280/3/60 55 / / 50 / 65 / / 65 / /
cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency Heat exchange mode	Medium Low High Medium	V/Ph/Hz % % % % % % % % % % % % dB(A) dB(A)	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 70 60 60 65 39 38	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 60 60 60 60 60 65 40	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / 66 / / 60	380-415/3/50 (280/3/60 55 / / 50 / 65 / / 65 / /
cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass	Medium Low High Medium Low Low Low Low Low Low Low Low	V/Ph/Hz % % % % % % % % % % % dB(A) dB(A)	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 60 60 60 65 39 38 32	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 65 40 39 33	HRV-1500 380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / / 60 / / / 51	380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / 66 / / 60 / / 53
Cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency Heat exchange mode	Medium Low High Medium	V/Ph/Hz % % % % % % % % % % % dB(A) dB(A) dB(A)	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 60 60 60 65 39 38 32 40	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65	HRV-1500 380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / / 60 / / / 51	380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / 66 / / 60 / / 53
Cooling Heating Sound ressure evel	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass mode	Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A)	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 60 60 60 65 39 38 32 40 39 34	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 55 65 65 65 70 60 60 65 40 39 33 41 40 35	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / / 66 / / 51 / 51 / 52 / /	380-415/3/50 (280/3/60 55 / / 50 / 65 / 60 / / 53 / / 54
Cooling leating Gound ressure evel	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass	Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A) mm	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 65 60 60 60 60 60 60 60 61 39 38 32 40 39 34 1286×1006×388	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 55 65 65 65 70 60 60 65 40 39 33 41 40 35 1286×1256×388	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / 60 / / 51 / 51 / 1 52 / 1600×1270×540	380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / / 65 / / 60 / / / 53 / / 1 54 / 1 1650×1470×540
Cooling deating cound ressure evel	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass mode sion (W×D×H)	Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A) dB(A) mm inch	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 70 60 60 65 39 38 32 40 39 34 1286×1006×388 50-5/8×39-5/8×15-1/4	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 55 65 65 65 70 60 60 65 40 39 33 41 40 35	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / 60 / / 51 / 51 / 1600×1270×540 63×50×21-1/4	380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / / 65 / / / 65 / / / 1650×1470×540 65×57-7/8×21-1/4
Cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass mode	Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A) dB(A) mm inch mm	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 70 60 60 65 39 38 32 40 39 34 1286×1006×388 50-5/8×39-5/8×15-1/4 1380×1100×573	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 60 60	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / / 60 / / 51 / 1 52 / 1600×1270×540 63×50×21-1/4 1680×1350×720	380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / 66 / / 60 / / 53 / / 54 / 1650×1470×540 65×57-7/8×21-1/4 1760×1580×720
Cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass mode sion (W×D×H)	Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A) mm inch mm	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 70 60 60 65 39 38 32 40 39 34 1286×1006×388 50-5/8×39-5/8×15-1/4 1380×1100×573 54-5/16×43-5/16×22-9/16	HRV-1000 220-240/1/50 (220/1/60) 55 60 50 50 55 65 65 65 65 60 60	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / / 66 / / 51 / 60 / / 51 / 52 / / 1600×1270×540 63×50×21-1/4 1680×1350×720 66-1/8×53-1/8×28-3/8	380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / 665 / / 60 / / 53 / / 54 / 1650×1470×540 65×57-7/8×21-1/4 1760×1580×720 69-5/16×62-3/16×28-3/
cooling leating	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass mode sion (W×D×H)	Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A) dB(A) mm inch mm	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 70 60 60 65 39 38 32 40 39 34 1286×1006×388 50-5/8×39-5/8×15-1/4 1380×1100×573	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 70 60 60 65 40 39 33 41 40 35 1286×1256×388 50-5/8×49-7/16×15-1/4 1390×1350×580 54-3/4×53-1/8×22-13/16 79/110(173.8/242)	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / 65 / 65 / / 60 / / 51 / 51 / 60 52 / / 1600×1270×540 63×50×21-1/4 1680×1350×720 66-1/8×53-1/8×28-3/8 163/224(358.6/492.8)	380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / 665 / / 60 / / 53 / / 54 / 1650×1470×540 65×57-7/8×21-1/4 1760×1580×720 69-5/16×62-3/16×28-3/
cooling - leating - lound ressure - evel - let dimenseracking sizelet/gross sizeleting	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass mode sion (W×D×H) weight	Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A) mm inch mm	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 60 60 65 39 38 32 40 39 34 1286×1006×388 50-5/8×39-5/8×15-1/4 1380×1100×573 54-5/16×43-5/16×22-9/16 62/88(136.7/193.6)	HRV-1000 220-240/1/50 (220/1/60) 55 60 50 50 55 65 65 65 70 60 60 65 40 39 33 41 40 35 1286×1256×388 50-5/8×49-7/16×15-1/4 1390×1350×580 54-3/4×53-1/8×22-13/16 79/110(173.8/242) Galvanized	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / 65 / / 65 / / 60 / / 51 / 52 / 1600×1270×540 63×50×21-1/4 1680×1350×720 66-1/8×53-1/8×28-3/8 163/224(358.6/492.8) steel plate	380-415/3/50 (280/3/60) 55 / / / 50 / 65 / 65 / 60 / / 53 / 60 / / 65 53 / / 1650×17/8×21-1/4 1760×1580×720 69-5/16×62-3/16×28-3/ 182/247(400.4/543.4)
cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass mode sion (W×D×H) xe (W×D×H) weight ange system	Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A) mm inch mm	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 66 60 60 65 39 38 32 40 39 34 1286×1006×388 50-5/8×39-5/8×15-1/4 1380×1100×573 54-5/16×43-5/16×22-9/16 62/88(136.7/193.6)	HRV-1000 220-240/1/50 (220/1/60) 55 55 60 50 55 65 65 65 70 60 60 65 40 39 33 41 40 35 1286×1256×388 50-5/8×49-7/16×15-1/4 1390×1350×580 54-3/4×53-1/8×22-13/16 79/110(173.8/242) Galvanized Dair cross flow total heat (sen	HRV-1500 380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / 60 / / 51 / 51 / 1600×1270×540 63×50×21-1/4 1680×1350×720 66-1/8×53-1/8×28-3/8 163/224(358.6/492.8) steel plate sible heat + latent heat) exch	380-415/3/50 (280/3/60) 55 / / / 50 / 65 / 65 / 60 / / 53 / / 65 53 / / / 1650×1470×540 65×57-7/8×21-1/4 1760×1580×720 69-5/16×62-3/16×28-3/ 182/247(400.4/543.4)
cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass mode Sion (W×D×H) weight ange system ange element	Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A) mm inch mm	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 66 60 60 65 39 38 32 40 39 34 1286×1006×388 50-5/8×39-5/8×15-1/4 1380×1100×573 54-5/16×43-5/16×22-9/16 62/88(136.7/193.6)	HRV-1000 220-240/1/50 (220/1/60) 55 60 50 55 65 65 65 65 70 60 60 65 40 39 33 41 40 35 1286×1256×388 50-5/8×49-7/16×15-1/4 1390×1350×580 54-3/4×53-1/8×22-13/16 79/110(173.8/242) Galvanized of air cross flow total heat (sen	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / 60 / / 51 / 51 / 1600×1270×540 63×50×21-1/4 1680×1350×720 66-1/8×53-1/8×28-3/8 163/224(358.6/492.8) steel plate sible heat + latent heat) exchanging and servinonflammable paper	380-415/3/50 (280/3/60 55 / / 50 / 65 / 66 / 60 / / 53 / / 54 / 1650×1470×540 65×57-7/8×21-1/4 1760×1580×720 69-5/16×62-3/16×28-3/ 182/247(400.4/543.4)
ower sup cooling cound ressure evel et dimens acking siz et/gross v asing eat excha	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass mode sion (W×D×H) xe (W×D×H) weight ange system	Medium Low High	V/Ph/Hz % % % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A) mm inch mm	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 65 70 60 60 65 39 38 32 40 39 34 1286×1006×388 50-5/8×39-5/8×15-1/4 1380×1100×573 54-5/16×43-5/16×22-9/16 62/88(136.7/193.6) Air to	HRV-1000 220-240/1/50 (220/1/60) 55 60 50 50 55 65 65 65 65 60 60	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / 66 / / 51 / 51 / 1600×1270×540 63×50×21-1/4 1680×1350×720 66-1/8×53-1/8×28-3/8 163/224(358.6/492.8) steel plate sible heat + latent heat) exchanging manual paper	380-415/3/50 (280/3/60) 55 / / / 50 / / 65 / / 665 / / / 53 / / 54 / 1650×1470×540 65×57-7/8×21-1/4 1760×1580×720 69-5/16×62-3/16×28-3, 182/247(400.4/543.4)
cooling	Temperature exchange efficiency Enthalpy exchange efficiency Temperature exchange efficiency Temperature exchange efficiency Enthalpy exchange efficiency Enthalpy exchange efficiency Heat exchange mode Bypass mode sion (W×D×H) ze (W×D×H) weight ange system ange element in Type	Medium Low High Medium Low	V/Ph/Hz % % % % % % % % % % % % dB(A) dB(A) dB(A) dB(A) dB(A) mm inch mm inch kg(lbs)	220-240/1/50 (220/1/60) 55 55 60 50 50 55 65 65 65 66 60 60 60 60 65 39 38 32 40 39 34 1286×1006×388 50-5/8×39-5/8×15-1/4 1380×1100×573 54-5/16×43-5/16×22-9/16 62/88(136.7/193.6) Air to	HRV-1000 220-240/1/50 (220/1/60) 55 60 50 50 55 65 65 65 65 65	HRV-1500 380-415/3/50 (280/3/60) 55 / / 50 / / 65 / 60 / / 51 / 51 / 1600×1270×540 63×50×21-1/4 1680×1350×720 66-1/8×53-1/8×28-3/8 163/224(358.6/492.8) steel plate sible heat + latent heat) exchanging and servinonflammable paper	380-415/3/50 (280/3/60 555 / / 50 / 65 / 665 / 60 / / 53 / / 54 / 1650×1470×540 65×57-7/8×21-1/4 1760×1580×720 69-5/16×62-3/16×28-3/ 182/247(400.4/543.4)
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- Note:

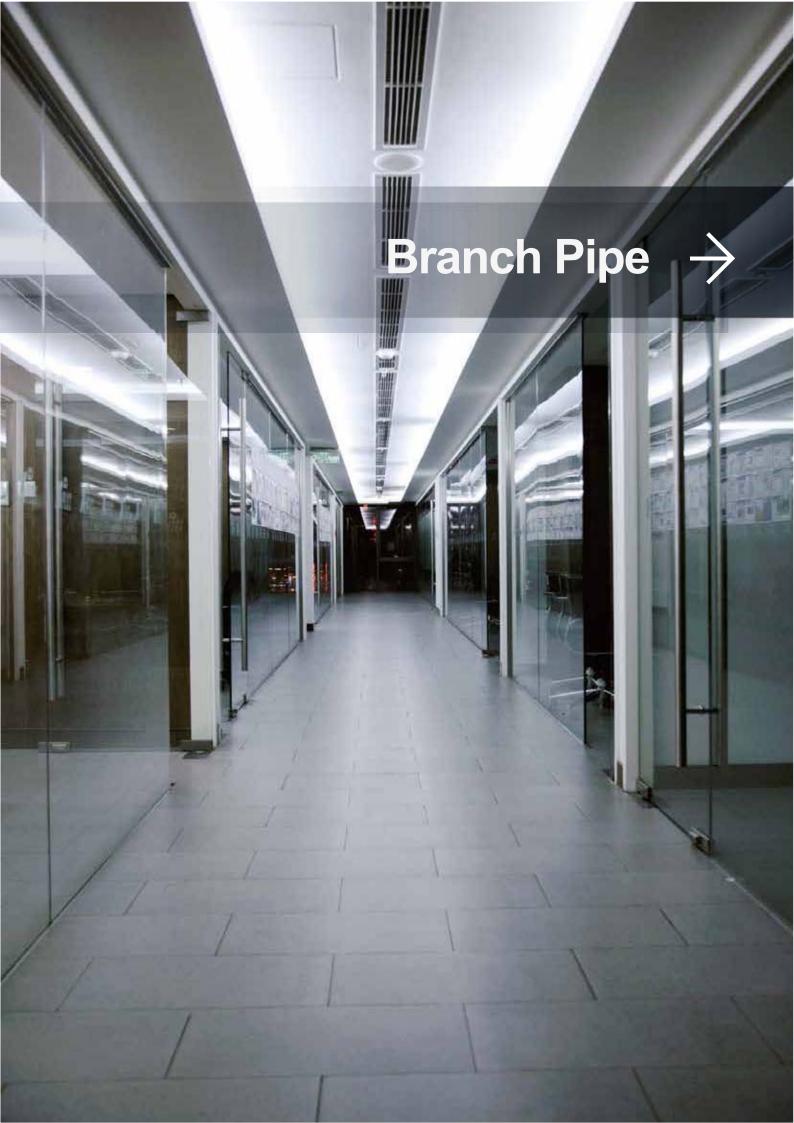
 1. For the units model of HRV (400-1000), there are 3-speed adjustable air volume (Hi, Med, Low), but for the units model of HRV (1500-2000), there are only 1-speed which cannot be adjusted.

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

 3. 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 Pipe

Branch joints of two-pipe refrigerant system								
Model	Appearance	Model name	Packing Size in.(mm)	Gross Weight Ibs.(kg)	Description			
	-»-	FQZHW-02N1D	10-1/16×5-7/8×7-1/4 (255×150×185)	3.3(1.5)	For two outdoor units connection			
Branch joint for 410A outdoor unit	<u>-</u> »»	FQZHW-03N1D	13-9/16×6-5/16×11-1/4 (345×160×285)	7.48(3.4)	For three outdoor units connection			
		FQZHW-04N1D	18-3/4×6-1/2×11-3/4 (475×165×300)	10.56(4.8)	For four outdoor units connection			
		FQZHN-01D	11-7/16×4-1/8×4 (290×105×100)	0.88(0.4)	A*<16.6kW			
		FQZHN-02D	11-7/16×4-1/8×4 (290×105×100)	1.32(0.6)	16.6≤A*<33kW			
Branch joint for R410A indoor unit		FQZHN-03D	12-3/16×5-1/8×4-15/16 (310×130×125)	1.98(0.9)	33kW≤A*<66kW			
		FQZHN-04D	13-25/32×7-3/32×6-11/16 (350×180×170)	3.3(1.5)	66kW≤A*<92kW			
		FQZHN-05D	14-3/8×7-11/16×8-15/32 (365×195×215)	4.18(1.9)	92kW≤A*			

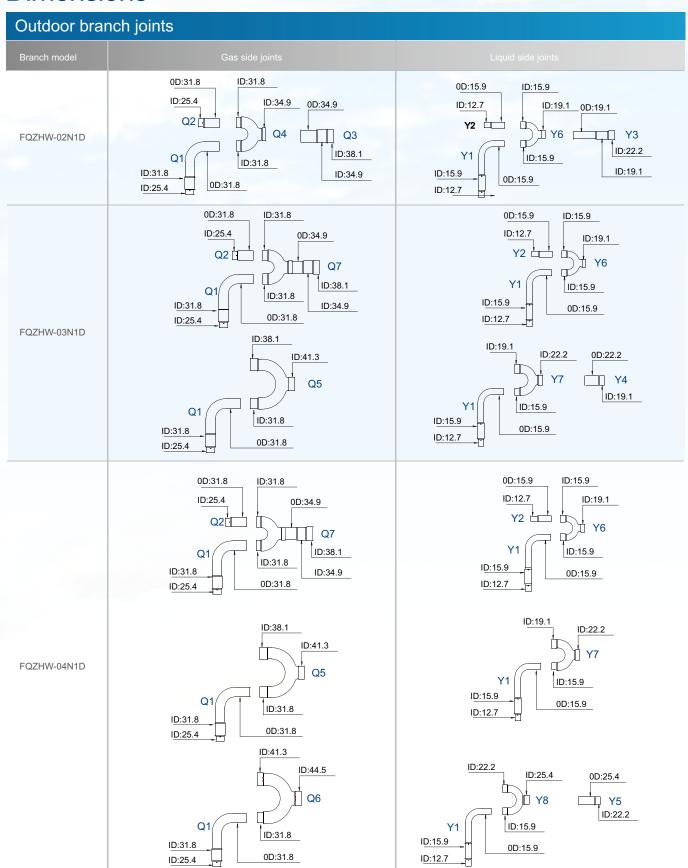
A*:The total capacity of indoor units which is connected to this branch joint

Branch joints of three-pipe refrigerant system					
Model	Appearance	Model name	Packing Size in.(mm)	Gross Weight Ibs.(kg)	Description
Branch joint between outdoor unit	-»- -»-	FQZHW-02SB	10-11/16×6-9/16×9-1/8 (272×167×232)	4.84(2.2)	For two outdoor units connection
		FQZHW-03SB	18-9/16×6-3/16×12-9/32 (472×157×312)	11(5.0)	For three outdoor units connection
		FQZHW-04SB	29-5/16×6-5/16×13-3/16 (745×160×335)	16.5(7.5)	For four outdoor units connection
Branch joint between MS unit and outdoor unit		FQZHN-01SB	10-1/8×5×4-7/32 (257×127×107)	1.76(0.8)	A*<16.6kW
		FQZHN-02SB	11-5/16×5-3/8×4-7/32 (287×137×107)	1.98(0.9)	16.6≤A*<33kW
		FQZHN-03SB	11-11/16×6-9/16×6-31/32 (297×167×177)	3.08(1.4)	33kW≤A*<66kW
		FQZHN-04SB	14-5/8×7-3/4×7-3/8 (372×197×187)	5.06(2.3)	66kW≤A*<92kW
		FQZHN-05SB	17-1/64×8-3/4×8-15/16 (432×222×227)	7.26(3.3)	92kW≤A*
Branch joint between MS unit and indoor unit		FQZHN-01D	11-7/16×4-1/8×4 (290×105×100)	0.88(0.4)	A*<16.6kW

A*:The total capacity of indoor units which is connected to this branch joint



Dimensions



Dimensions

Indoor branch joints (ID:15.9) OD:19.1 ID:19.1 ID:19.1 FQZHN-01D OD:19.1 FQZHN-02D ID:15.9 OD:22.2 OD:28.6 ID:19.1 ID:28.6 FQZHN-03D OD:15.9 OD:28.6 ID:19.1 ID:19.1 OD:34.9 ID:34.9 OD:19.1 FQZHN-04D ID:12.7 (ID:15.9) OD:19.1 ID:22.2 (ID:19.1) OD:22.2 FQZHN-05D OD:22.2



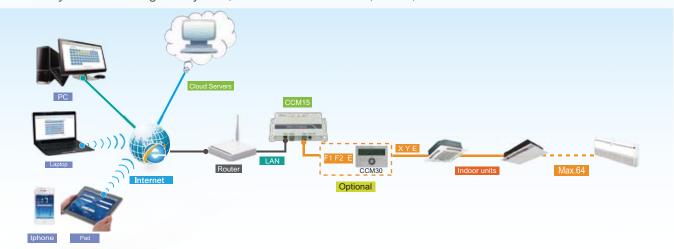
Central Control Software

Data converter CCM15

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

Network example

- Can be directly connected with XYE port of the indoor/outdoor units.
- Up to connect 64 indoor units.
- CCM03/CCM30 is optional and can be connected with CCM15 through F1F2E ports.
- The system consisting A/C system, data converter CCM15, router, cloud server and control terminal.



*If it connects to XYE ports of master ODU, ODU must be set to auto addressing mode.

Simply control interface

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









GD Midea Heating & Ventilating Equipment Co., Ltd. Is certified under the ISO 14001 International standard for environmental management.

Certificate No.15912E10020R0L



GD Midea Heating & Ventilating Equipment Co., Ltd. Is certified under the ISO 9001 International standard for quality assurance.
NO.01 100 019209



GD Midea Heating & Ventilating Equipment Co., Ltd.
Certificate of Occupational Health and Safety Management System
Certificate No. 15912S20006R0L-1.

Dealer information

Commercial Air Conditioner Business Units Midea Group

Add: West Region of Midea Commercial Air Conditioner Department, Industry Avenue,

Beijiao, Shunde, Foshan, Guangdong, P. R. China

Postal code: 528311

Tel: +86-757-26338346 Fax: +86-757-22390205

http://global.midea.com.cn

http://www.midea.com/

Note: The data in this book may be changed without notice for further improvement on quality and performance.

Ver.2015.01