

1902-2V1905

VRF 60Hz V5X/V4+S/V4+R/V4+W/Mini VRF



Commercial Air Conditioners 2019



Commercial Air Conditioner Division Midea Group

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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

VRF 60Hz

V5X/V4+S/V4+R/V4+W/Mini VRF

Midea CAC

Midea CAC is a key division of the Midea Group, a leading producer of consumer appliances and provider of heating, ventilation and air conditioning solutions. Midea CAC has continued with the tradition of innovation upon which it was founded, and emerged as a global leader in the HVAC industry. A strong drive for advancement has created a groundbreaking R&D department that has placed Midea CAC at the forefront of a competitive field. Through these independent efforts and joint cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide.

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

MCAC Shunde: 38 product lines focusing on VRF, 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.



2017 » Launched the All DC Inverter V6 VRF globally, leading in VRF market

2016 » Acquired 80% stake in Clivet

2014-2015 » Win FIFA World Cup Stadiums project in Brazil Beira Rio, Olympic Games Stadiums project in Brazil Rio de Janeiro and Africa games Stadiums project in Congo Brazzaville successively

2014 » Launched the All DC Inverter V5X globally, outstanding product performance helps Midea leading VRF market

2011-2014 » Launched the DC Inverter V4 Plus Series successively, complete product lines help Midea successfully enter the mainstream VRF market

2011-2012 » J.V. with Carrier LA and Carrier India successively

2009 » Launched the DC Inverter V4 globally

2008 » Developed DC inverter technology with Toshiba

2000-2001 » Cooperated with Toshiba and Copeland, enter VRF field

1999 » Entered the CAC field

» INDEX



OUTDOOR UNITS

- 21 VRF V5 X Series
- 27 VRF V4 Plus S Series
- 33 VRF V4 Plus R Series
- 41 VRF V4 Plus W Series
- 45 VRF Mini Series



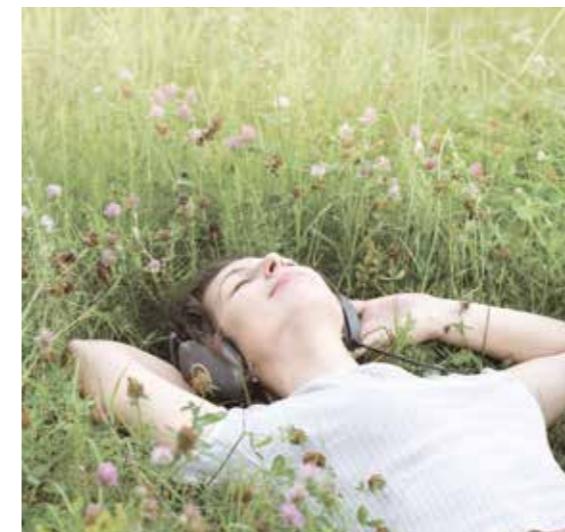
CONTROL SYSTEMS

- 71 Wireless Remote Controller
- 73 Wired Controller
- 81 Centralized Controller & Monitor
- 89 Network Control Software & Gateways
- 107 Accessories



INDOOR UNITS

- 52 One-way Cassette
- 53 Two-way Cassette
- 54 Four-way Cassette
- 59 Medium Static Pressure Duct
- 61 High Static Pressure Duct
- 63 Wall-mounted
- 65 Ceiling & Floor
- 67 Fresh Air Processing Unit



HRV

- 115 Heat Recovery Ventilator



BRANCH JOINTS

- 118 Branch Joints

>> VRF SYSTEM

VRF V5 X uper Series



Heat pump
Max. 4 modules can be combined
8~88HP
All DC inverter compressors
All DC fan motors

VRF V4 Plus W ater Cooled Series



Water cooled
Max. 3 modules can be combined
8~36HP
DC inverter compressor

VRF V4 Plus S uper Series



Heat pump
Max. 4 modules can be combined
8~72HP
All DC inverter compressors
All DC fan motors

VRF V4 Plus Heat R ecovery Series



Heat recovery
Simultaneous cooling and heating operation in one system
Max. 4 modules can be combined
8~64HP
All DC inverter compressors
All DC fan motors

VRF V4 Plus M ini Series

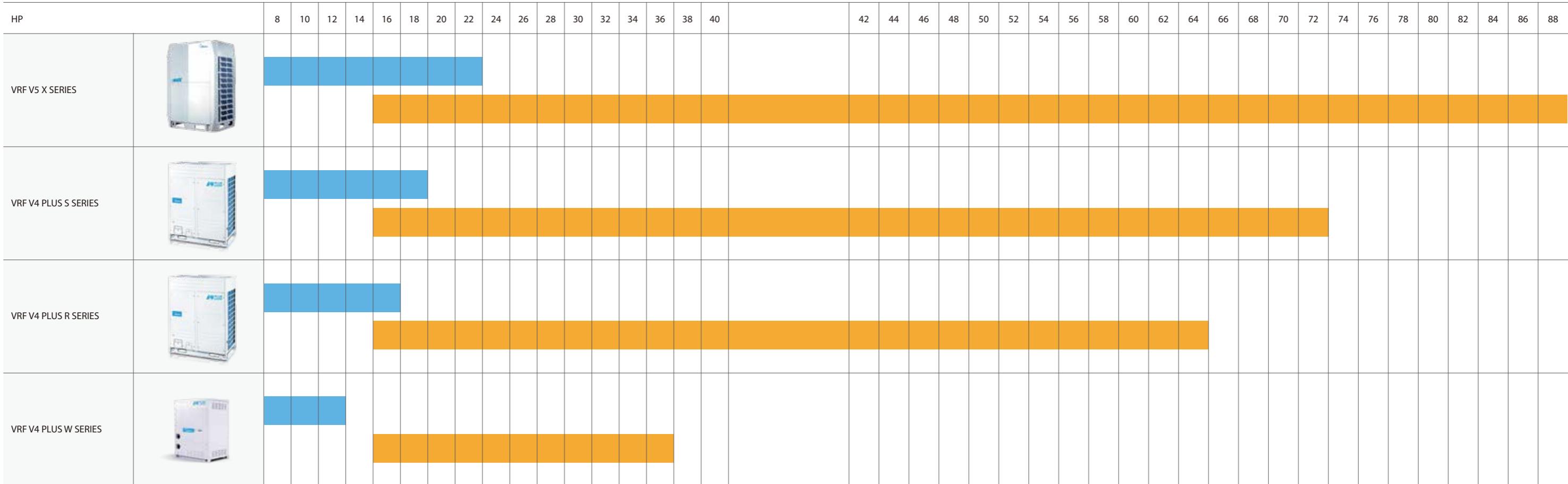


Heat pump, cannot be combined
3~6.5HP
DC inverter compressor
All DC fan motors



>> OUTDOOR UNIT LINEUP

Connectable VRF



Single VRF

HP	4	4.5	5	6
VRF MINI SERIES				

Single unit

Multi combination

>> INDOOR UNIT LINEUP

kW			1.8	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	20.0	25.0	28.0	40.0	45.0
Btu/h			6k	7k	9k	12k	15k	19k	24k	27k	30k	34k	38k	42k	48k	55k	68k	85k	96k	136k	154k
Cassette	One-way cassette																				
	Two-way cassette																				
	Four-way cassette																				
	Compact four-way cassette																				
Duct	Medium static pressure																				
	High static pressure																				
	Fresh air processing unit																				
Wall mounted																					
Ceiling & floor																					

Notes:

Fresh air processing unit is not available for V4+R and Mini VRF Series.



» OUTDOOR UNITS

VRF V5 X SERIES
VRF V4 PLUS S SERIES
VRF V4 PLUS R SERIES
VRF V4 PLUS W SERIES
VRF MINI SERIES

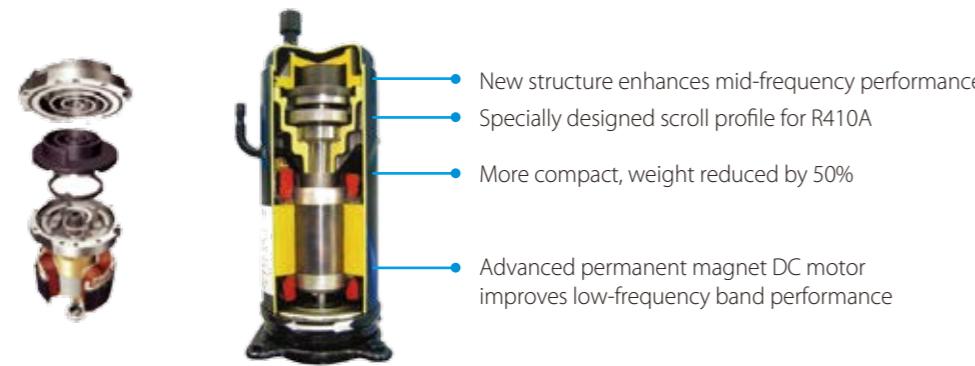
Technologies



1. High Efficiency DC Inverter Compressor [»](#)

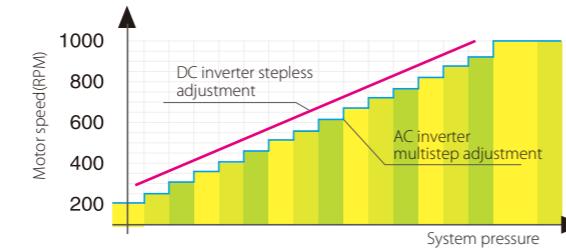
Midea VRF Air Conditioner achieves the industry's top class energy efficiency in cooling and heating by utilizing DC inverter compressor, DC fan motor, and high efficiency heat exchanger.

The DC inverter compressor adopts innovative design and numerous high performance key parts which can reduce power consumption by 25%.



2. High Efficiency DC Fan Motor [»](#)

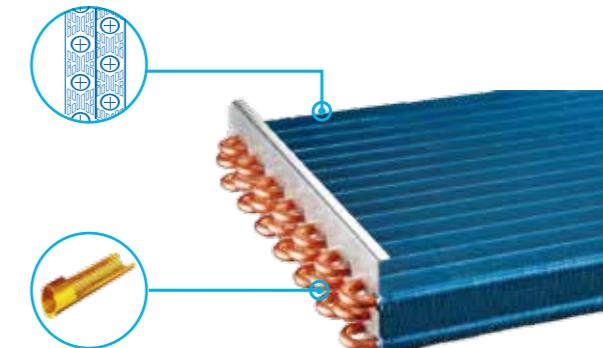
The system controls the speed of the fan motor according to the system pressure and system load achieving the minimum power consumption.



3. High Efficiency Heat Exchanger [»](#)

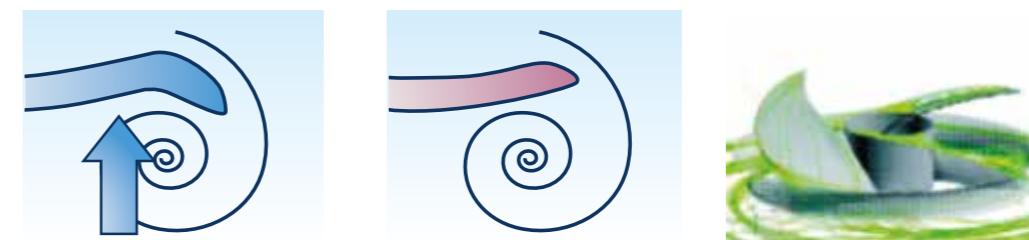
Newly designed window type fins enlarge the heat exchange area and decrease air resistance, enhance heat exchange performance and save more energy.

Hydrophilic fins and internally threaded copper pipes optimize heat exchange efficiency.



4. Newly Designed Fan [»](#)

A new blade with sharp edges and a slight curve increases the airflow rate and lowers vibration and airflow resistance.

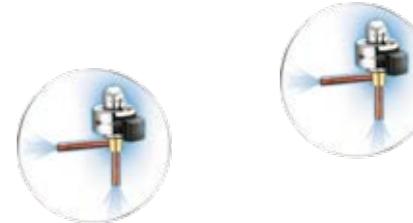


5. Multi Solenoid Valves Control [»](#)

Multi solenoid valves control technology in one system. All the solenoid valves equipped in the unit ensure precise temperature control, stable and efficient running conditions and improved comfort.

6. Double EXVs Control [»](#)

Double EXVs in one system, each EXV part achieves 480 Pulse rate to precisely adjust refrigerant flow.



Wide Application Range

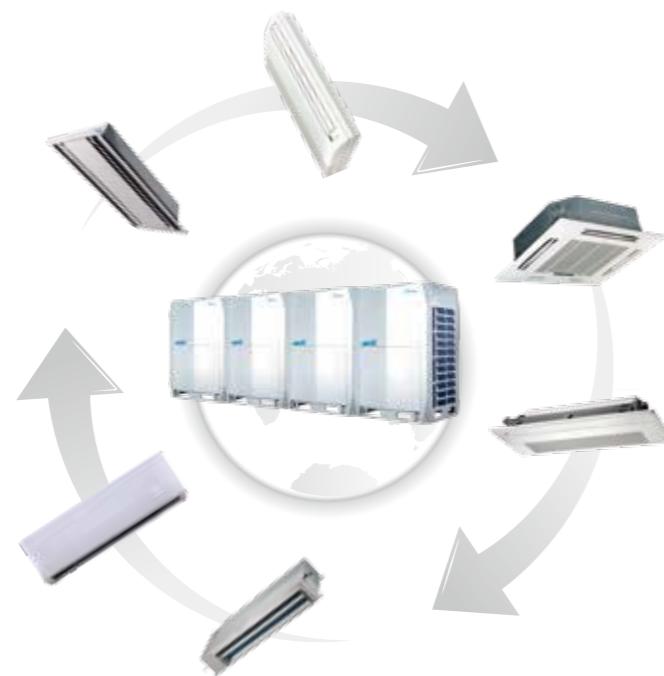
Wide Capacity Range »

Midea VRF has an extensive capacity ranging from 3HP to 88HP, meeting all customer requirements from small to large buildings.



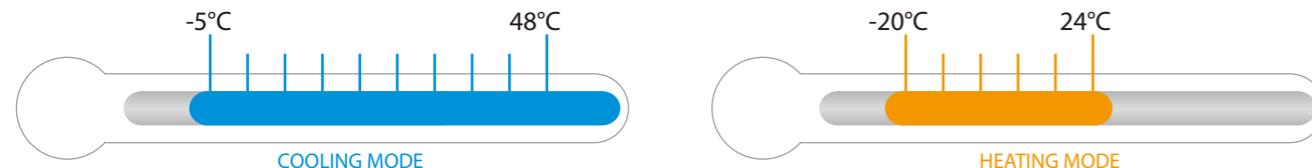
Wide Range of Indoor Units »

Midea provides 12 types and more than 100 models of VRF indoor units to meet varied customer requirements in a wide range of locations including shopping malls, hospitals and airports.



Wide Operation Range »

The VRF system operates stably under extreme conditions, ranging from minus -20°C to 48°C.



High Reliability

Duty Cycling »

Duty cycling equalizes the running time of the outdoor units in a multiple-unit system and of the compressors in each unit, significantly extending compressor lifespan.



Backup Operation »

In a multi-unit system, if one module fails, the other modules provide backup so that the system can continue operating.



Precise Oil Control Technology »

Five stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

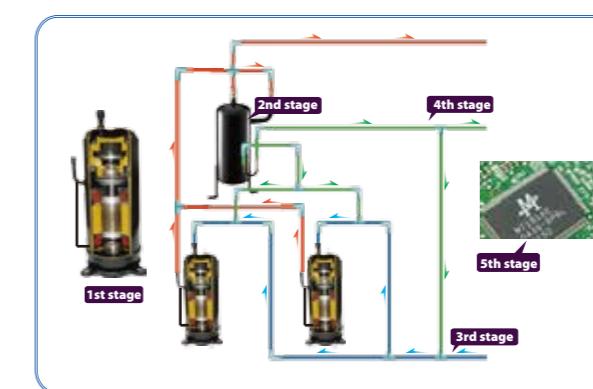
The 1st stage: Compressor internal oil separation.

The 2nd stage: High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.

The 3rd stage: Oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.

The 4th stage: Oil balance pipes among modules ensure even oil distribution among modules.

The 5th stage: Auto oil return program monitors the running time and system status to ensure reliable oil return.



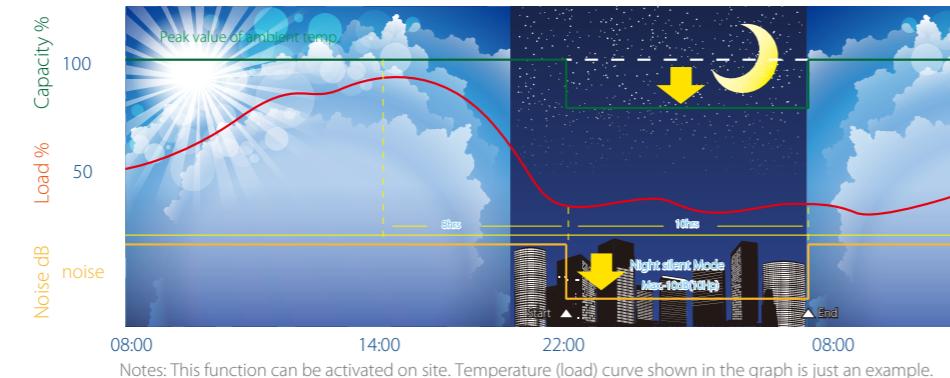
Enhanced Comfort

Night Silent Operation Mode »

Night Silent Mode feature which is easily set on the PCB board allows the unit to be set to various time options during Non-peak and Peak operation time minimizing the units noise output.

Night Silent operation will be activated X hours after the peak daytime temperature, and it will go back to normal operation after Y hours.

- Mode 1→X: 6 hours, Y: 10 hours
- Mode 2→X: 8 hours, Y: 10 hours
- Mode 3→X: 6 hours, Y: 12 hours
- Mode 4→X: 8 hours, Y: 8 hours

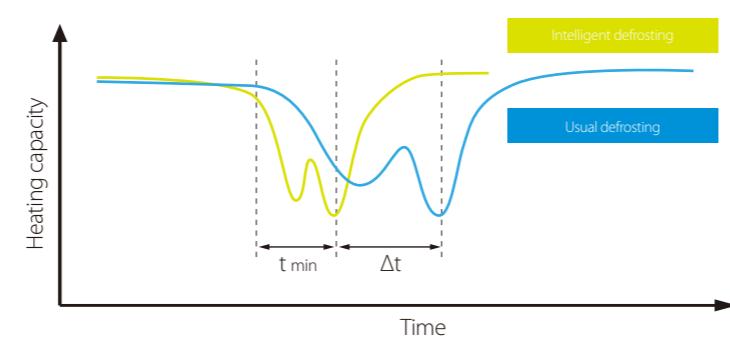


Intelligent Defrosting Technology »

Intelligent defrosting program will judge the defrosting time according to the system real requirement, reduce heating loss caused by unnecessary defrosting and create more comfort.

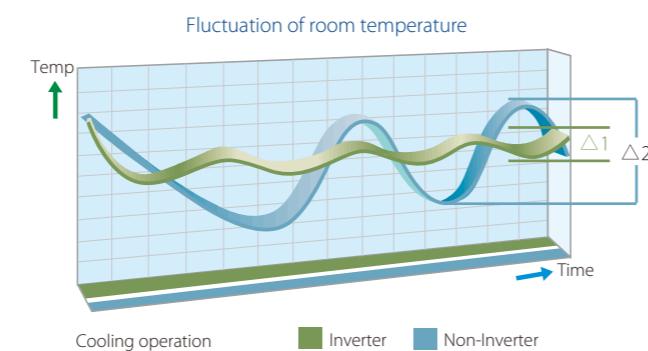
Defrosting time can be shortened to 4 min. due to the specialized defrosting valve.

*This function is only available for heat pump series.



Rapid Warm Up and Cool Down Function »

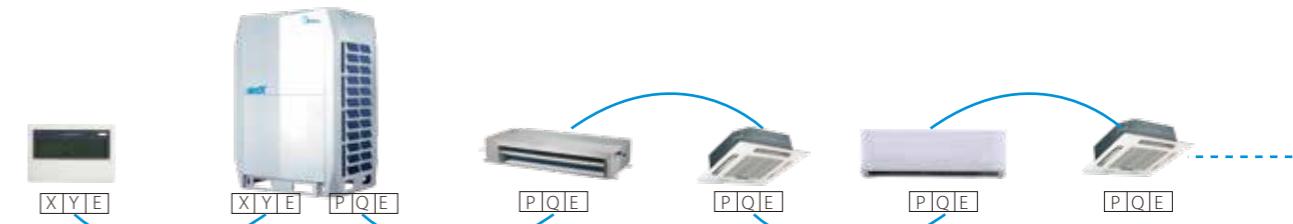
The DC Inverter Compressor system reaches full load rapidly providing less temperature fluctuation and an improved living environment.



Easy Installation and Service

Simple Communication Wiring »

Indoor centralized controller can be connected to either the indoor or the outdoor units. A single set of wiring can be used for system and network communication, making installation quicker and easier.



Auto Addressing »

Outdoor unit can distribute addresses to indoor units automatically.

Remote and wired controllers can be used to query or modify each indoor unit's address.



Easy Maintenance »

Special features that increase ease of maintenance include a control box inspection window for viewing the system status, a self-diagnosis function that speeds fault analysis, and the positioning of the compressor adjacent to the casing, which simplifies inspection and enables valve or compressor parts to be replaced easily.



Midea Unified Branch Piping »

The unified Midea branch piping system is especially designed for simple installation and it also has specifically been designed to optimize refrigerant flow.



*Indoor branch box is only available for Mini VRF Series.

Anti-corrosion Protection

Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on steel sheets, grills, coil fins, electric control box case and screws/bolts for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life.

The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.

[Motor »](#)

Standard products:
72h of neutral salt mist

Heavy anti-corrosion products:
240h of neutral salt mist



[Painted Sheet Metal »](#)

Standard products:
500h of neutral salt mist
1000h of moisture and heating test
500h of light aging test

Heavy anti-corrosion products:
1000h of neutral salt mist
2000h of moisture and heating test
720h of light aging test



[Screws / Bolts / Gaskets »](#)

Standard products:
300h of neutral salt mist

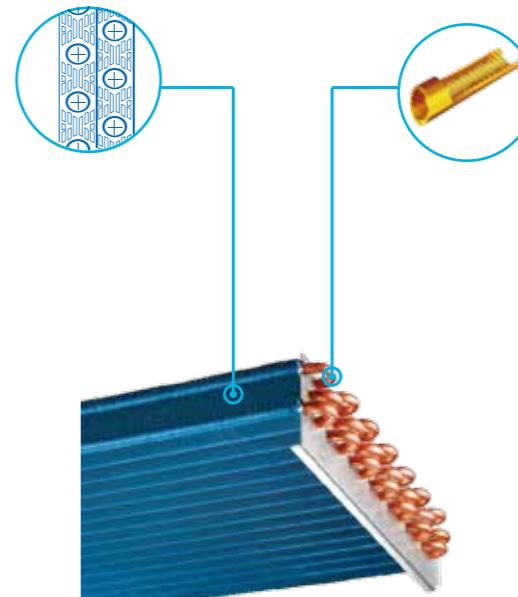
Heavy anti-corrosion products:
720h of neutral salt mist



[Heat Exchanger Aluminum Foil »](#)

Standard products:
72h of neutral salt mist

Heavy anti-corrosion products:
1000h of neutral salt mist
140h of acid salt mist



[Copper »](#)

Standard products:
24h of neutral salt mist

Heavy anti-corrosion products:
120h of neutral salt mist



[Electric Control Box Case »](#)

Standard products:
96h of neutral salt mist

Heavy anti-corrosion products:
240h of neutral salt mist

[Compressor / Motor Bolts](#)

Standard products:
72h of neutral salt mist

Heavy anti-corrosion products:
168h of neutral salt mist

**Indoor Units**

VRF indoor units

**Fresh Air Processing Unit**

100% fresh air supply

**Ventilation**

Heat recovery ventilator (HRV)

**AHU Connection Kit**

Connect to other brand AHU

**Control Systems**

Smart control systems



VRF V5 X Series

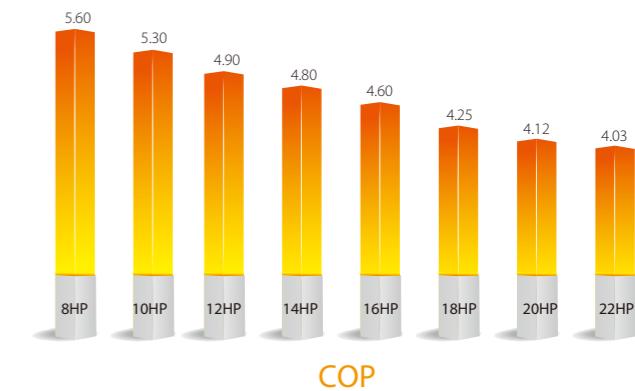
Heat Pump

**Optimized design
for small to large
buildings**

- » ALL DC inverter compressors
- » ALL DC fan motors
- » Capacity up to 88HP
- » Connectable indoor units quantity up to 64
- » ESP up to 60Pa
- » Cycle duty operation
- » Backup operation
- » Precise oil control technology
- » Advanced silence technology
- » Intelligent defrosting technology
- » Simple communication wiring
- » Auto addressing
- » Easy maintenance

High EER and COP Values »

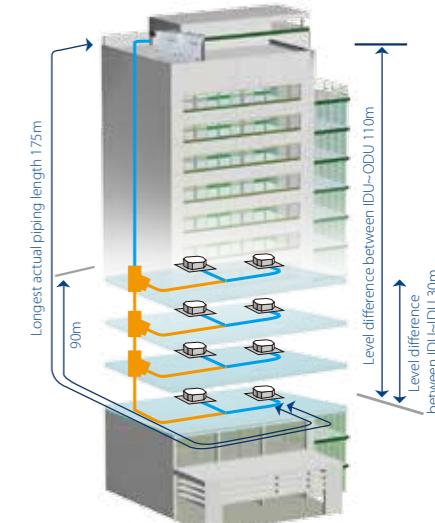
DC compressors and fan motors together with a high-efficiency heat exchanger combine to give the V5 X Series top-class energy efficiency in cooling and heating.



Long Piping Capability »

Total piping length	1000m	3280ft.
Longest length actual (Equivalent)	175(200)m	574(656)ft.
Longest length after first branch	90*m	295*ft.
Level difference between indoor and outdoor units - ODU up (down)	90(110)m	295(361)ft.
Level difference between indoor units	30m	98ft.

*The longest piping length is 40m(131ft.) standard. It can be extended to 90m(295ft.). When the length is over 40m(131ft.), please contact your local Midea dealer for more information and restrictions.



Rotatable Electric Control Box »

The newly designed rotating control box can be rotated up to 150 degrees to provide access to the pipeline system for inspection and maintenance without the need to remove the control box.



**Indoor Units**

VRF V4 Plus indoor units

**Fresh Air Processing Unit**

100% fresh air supply

**Ventilation**

Heat recovery ventilator (HRV)

**AHU Connection Kit**

Connect to other brand AHU

**Control Systems**

Smart control systems



VRF V4 Plus S Series

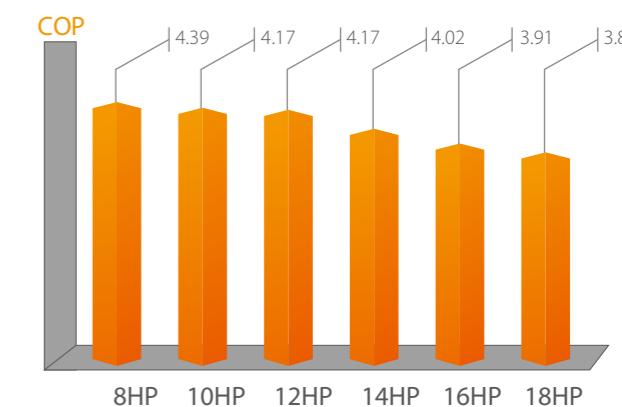
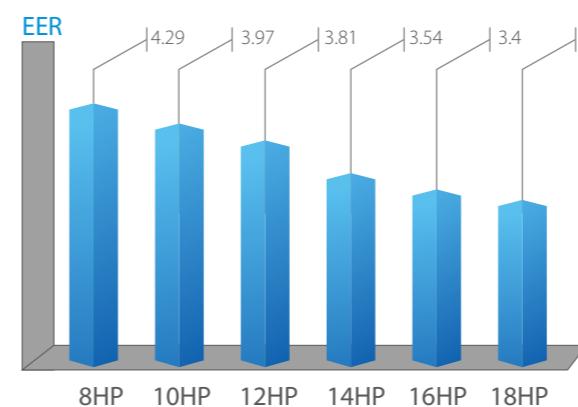
Heat Pump

**Optimized design
for small to large
buildings**

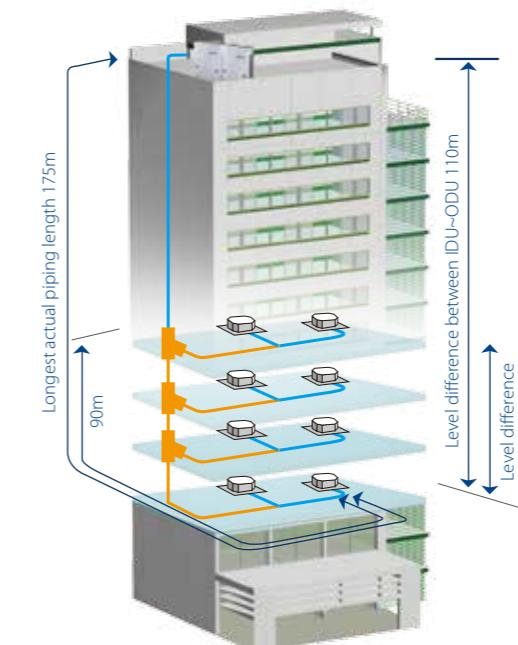
- » ALL DC inverter compressors
- » ALL DC fan motors
- » Capacity up to 72HP
- » Connectable indoor units quantity up to 64
- » ESP up to 60Pa
- » Cycle duty operation
- » Backup operation
- » Precise oil control technology
- » Advanced silence technology
- » Intelligent defrosting technology
- » Simple communication wiring
- » Auto addressing
- » Easy maintenance

High EER and COP Values »

V4 Plus S Series equipped with all DC compressors, all DC fan motors and high efficient heat exchanger. The cooling EER is up to 4.29 and the heating COP is up to 4.39 in the 8HP category.



Long Piping Length »



Total piping length	1000m	3280ft.
Longest length actual (Equivalent)	175(200)m	574(656)ft.
Longest length after first branch	90*m	295*ft.
Level difference between indoor and outdoor units - ODU up (down)	70(110)m	230(361)ft.
Level difference between indoor units	30m	98ft.

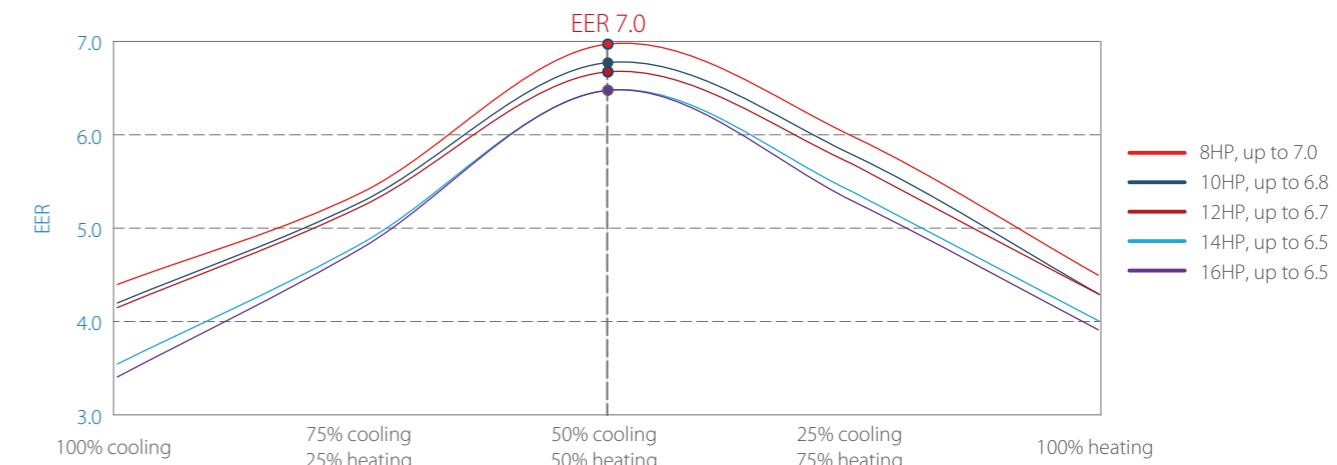
*The longest piping length is 40m(131ft.) standard. It can be extended to 90m(295ft.). When the length is over 40m(131ft.), please contact your local Midea dealer for more information and restrictions.

-  **Indoor Units**
VRF V4 Plus indoor units
-  **Ventilation**
Heat recovery ventilator (HRV)
-  **Control Systems**
Smart control systems



Heat Recovery, EER up to 7.0 »

Heat recovery is achieved by diverting exhaust heat from indoor units in cooling mode to areas requiring heating, maximizing energy efficiency, reducing electricity costs and leading to high partload efficiencies (up to 7.0 in the 8HP category).



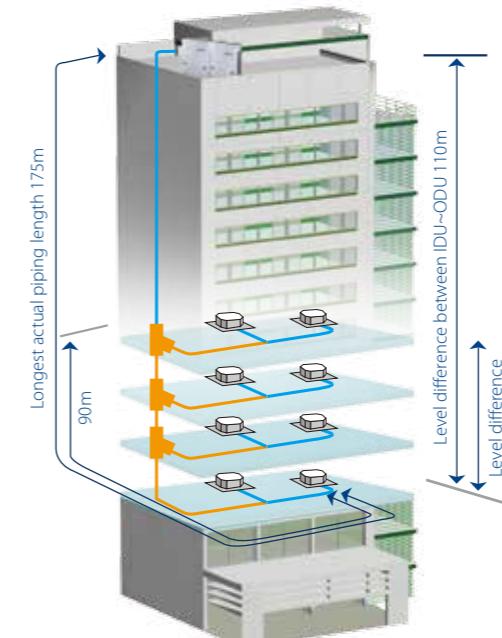
EER in simultaneous cooling and heating mode are based on the following condition:
Outdoor temperature 7°CDB/6°CWB, indoor temperature 27°CDB/19°CWB for cooling, indoor temperature 20°CDB for heating.

VRF V4 Plus R Series Heat Recovery

Offers simultaneous
cooling and
heating operation in
one system

- » ALL DC inverter compressors
- » ALL DC fan motors
- » Capacity up to 64HP
- » Connectable indoor units quantity up to 64
- » ESP up to 60Pa
- » Cycle duty operation
- » Backup operation
- » Precise oil control technology
- » Advanced silence technology
- » Simple communication wiring
- » Remote addressing
- » Easy maintenance

Long Piping Length »

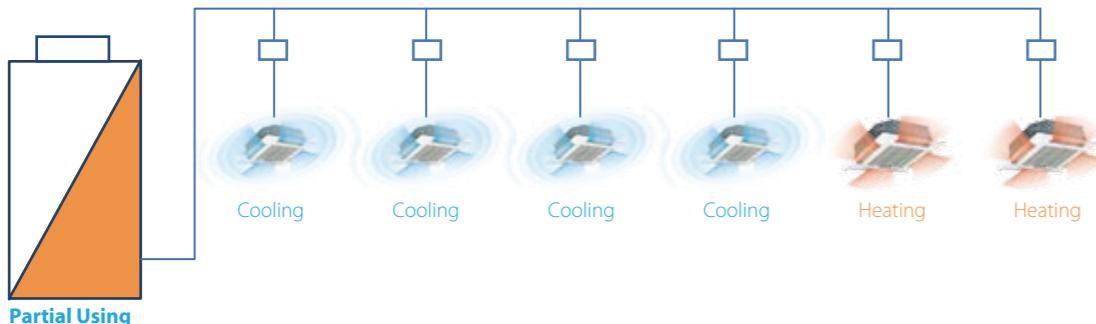


Total piping length	1000m	3280ft.
Longest length actual (Equivalent)	175(200)m	574(656)ft.
Longest length after first branch	90*m	295*ft.
Longest length from MS to its downstream indoor unit	40m	40m(131ft.)
Level difference between indoor and outdoor units - ODU up (down)	70(110)m	230(361)ft.
Level difference between indoor units	30m	98ft.

*The longest piping length is 40m(131ft.) standard. It can be extended to 90m(295ft.). When the length is over 40m, please contact your local Midea dealer for more information and restrictions.

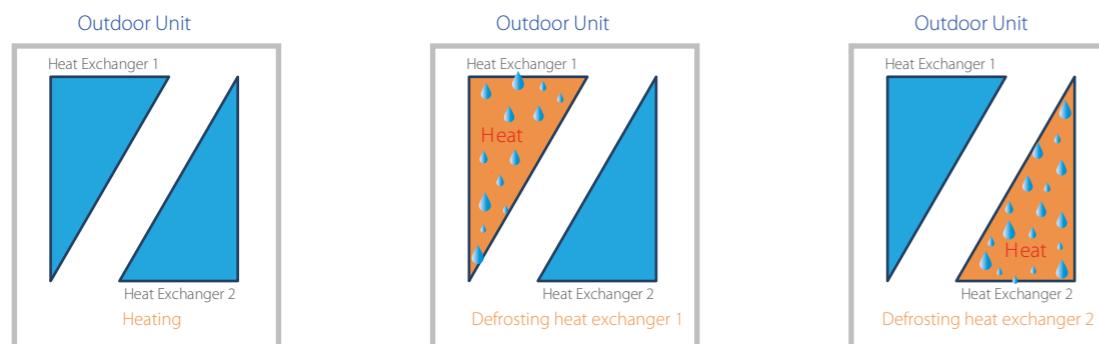
Adjustable Outdoor Heat Exchanger »

Two parts condenser individual design, the unit can distribute a part of evaporator to be as condensing area according to the heating load requirement to improve the utilization rate of the condenser.



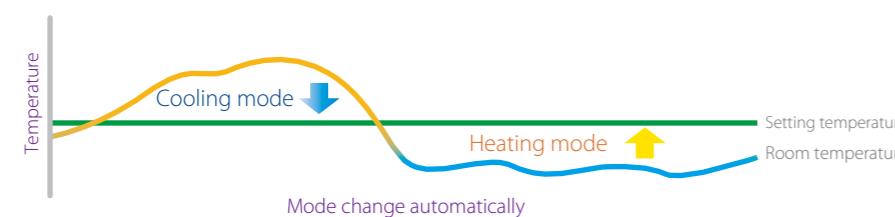
Continuous Heating During Defrost Operation »

Each heat exchanger is defrosted by using heat transferred from one heat exchanger to the other in the outdoor unit. Defrost has no impact on the indoor unit on heating mode.



Auto Mode Control »

Under the Auto Mode, the indoor unit can change the operation mode automatically, to keep the indoor temperature at a constant level.



Note: Auto Mode can be activated only with certain wired controller KJR-120B.

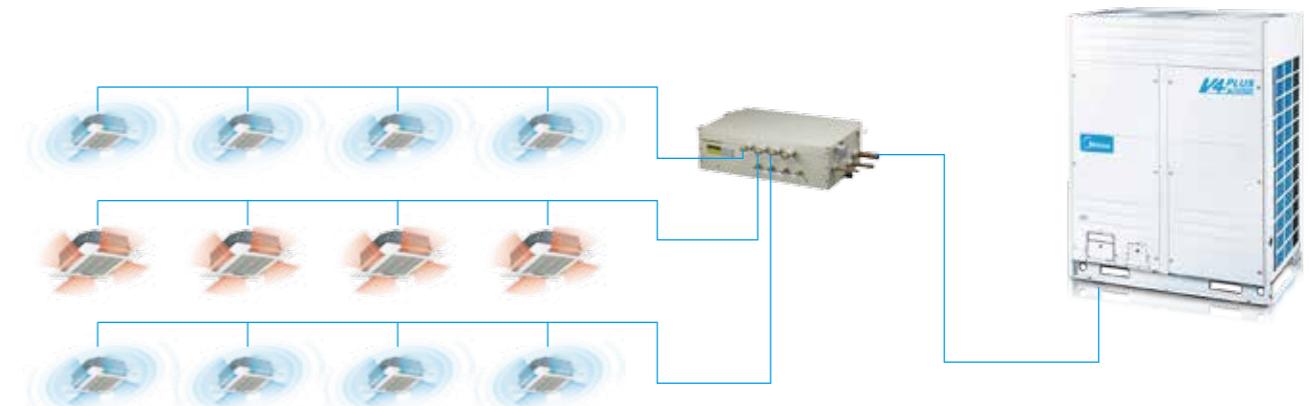
Innovative Mode Switch (MS) Box »

Simultaneous cooling and heating achieved for new designed MS (Mode Switch) box.

- ❖ Low noise operation for precise control of multiple solenoid valves;
- ❖ Max. 24 indoor units connect to a MS box;
- ❖ Max. 56kW indoor units connect to a MS box;



- ❖ Indoor units connected to a same MS can realize simultaneous cooling and heating operation.



Rotatable Control Box »

Newly designed rotating control box can rotate in a wide angle. It is convenient for the inspection and maintenance of the pipeline system and greatly reduces the dismount time of the electric control box.



VRF V4 Plus R Series - Heat Recovery (380~415V)

HP Model MDV-	8	10	12	14	16
Power supply	252(8)W/D2RN1T(C)	280(10)W/D2RN1T(C)	335(12)W/D2RN1T(C)	400(14)W/D2RN1T(C)	450(16)W/D2RN1T(C)
Cooling Capacity	kW	25.2	28.0	33.5	40.0
	kBtu/h	86.0	95.5	114.3	136.5
Power input	kW	5.73	6.67	8.07	11.30
EER		4.40	4.20	4.15	3.54
Heating Capacity	kW	27.0	31.5	37.5	45.0
	kBtu/h	92.1	107.5	128.0	153.5
Power input	kW	6.00	7.33	8.72	11.19
COP		4.50	4.30	4.30	4.02
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity		
Indoor unit	Max. quantity	13	16	20	26
Compressor	Type		DC inverter		
Quantity		1	1	1	2
Fan motor	Type		DC motor		
Quantity		2	2	2	2
Static pressure	Pa(in.W.G.)	20~40(0.08~0.16) (customized)	20~60(0.08~0.24) (customized)	0~40(0~0.16) (customized)	R410A
Refrigerant	Type				
Pipe connections	Factory charging	kg(lbs.)	10(22)	10(22)	13(28.6)
	Liquid pipe	mm(in.)	Φ12.7(Φ1/2)	Φ12.7(Φ1/2)	Φ15.9(Φ5/8)
	Low pressure gas pipe	mm(in.)	Φ22.2(Φ7/8)	Φ22.2(Φ7/8)	Φ25.4(Φ1)
	High pressure gas pipe	mm(in.)	Φ19.1(Φ3/4)(Φ3/4)	Φ19.1(Φ3/4)	Φ22.2(Φ7/8)
	High pressure gas balance pipe	mm(in.)	Φ19.1(Φ3/4)	Φ19.1(Φ3/4)	Φ19.1(Φ3/4)
	Oil balance pipe	mm(in.)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)
Air flow rate	m³/h	12000	12000	13000	15000
Sound pressure level	dB(A)	57	57	58	60
Net dimension (WxHxD)	mm	1250x1615x765			
	inch	49-7/32x63-9/16x30-1/8			
Packing size (WxHxD)	mm	1305x1790x820			
	inch	51-9/16x70-1/2x32-1/2			
Net weight	kg(lbs.)	255(561)	255(561)	255(561)	303(666.6)
Gross weight	kg(lbs.)	273(600.6)	273(600.6)	322(708.4)	322(708.4)
Operating temperature range	°C(F)	Cooling: -5~48(23~118.4); Heating: -20~24(-4~75.2); Simultaneous Cooling and Heating: -5~24(23~75.2)			



HP Model MDV-	18	20	22	24
Combined type	532(18)W/D2RN1T(C)	560(20)W/D2RN1T(C)	615(22)W/D2RN1T(C)	680(24)W/D2RN1T(C)
Power supply	V/Ph/Hz	8HP+10HP	10HPx2	10HP+12HP
		380-415/3/60		
Cooling Capacity	kW	53.2	56	61.5
	kBtu/h	181.5	191	209.8
Power input	kW	12.4	13.34	14.74
EER		4.29	4.2	4.17
Heating Capacity	kW	58.5	63	69
	kBtu/h	199.6	215	235.5
Power input	kW	13.33	14.66	16.05
COP		4.39	4.3	4.3
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity	
Indoor unit	Max. quantity	29	33	36
Compressor	Type		DC inverter	
Quantity		2	2	2
Fan motor	Type		DC motor	
Quantity		4	4	4
Refrigerant	Type		R410A	
Pipe connections	Factory charging	kg(lbs.)	10x2(22x2)	10x2(22x2)
	Liquid pipe	mm(in.)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)
	Low pressure gas pipe	mm(in.)	Φ31.8(Φ1-1/4)	Φ31.8(Φ1-1/4)
	High pressure gas pipe	mm(in.)	Φ28.6(Φ1-1/8)	Φ28.6(Φ1-1/8)
	High pressure gas balance pipe	mm(in.)	Φ19.1(Φ3/4)	Φ19.1(Φ3/4)
	Oil balance pipe	mm(in.)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)
Air flow rate	m³/h	24000	24000	25000
Sound pressure level	dB(A)	61	61	62
Net dimension (WxHxD)	mm	1250x1615x765	x2	
	inch	49-7/32x63-9/16x30-1/8	x2	
Packing size (WxHxD)	mm	1305x1790x820	x2	
	inch	51-9/16x70-1/2x32-1/2	x2	
Net weight	kg(lbs.)	255x2(561x2)		255+303(561+666.6)
Gross weight	kg(lbs.)	273x2(600.6x2)		273+322(600.6+708.4)
Operating temperature range	°C(F)	Cooling: -5~48(23~118.4); Heating: -20~24(-4~75.2); Simultaneous Cooling and Heating: -5~24(23~75.2)		

VRF V4 Plus R Series - Heat Recovery (380~415V)

HP Model MDV-	26	28	30	32
Combined type	730(26)W/D2RN1T(C)	800(28)W/D2RN1T(C)	850(30)W/D2RN1T(C)	900(32)W/D2RN1T(C)
Power supply	V/Ph/Hz	10HP+16HP	14HPx2	16HPx2
Cooling Capacity	kW	73	80	85
	kBtu/h	249	273	290
Power input	kW	19.9	22.6	24.54
EER		3.67	3.54	3.46
Heating Capacity	kW	81.5	90	95
	kBtu/h	278.1	307	324.1
Power input	kW	20.1	22.4	23.98
COP		4.05	4.02	3.96
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity	
Indoor unit	Max. quantity	43	46	50
Compressor	Type		DC inverter	
Quantity		3	4	4
Fan motor	Type		DC motor	
Quantity		4	4	4
Refrigerant	Type		R410A	
Pipe connections	Factory charging	kg(lbs.)	10+13(22+28.6)	13x2(28.6x2)
	Liquid pipe	mm(in.)	Φ19.1(Φ3/4)	Φ19.1(Φ3/4)
	Low pressure gas pipe	mm(in.)	Φ34.9(Φ1-3/8)	Φ34.9(Φ1-3/8)
	High pressure gas pipe	mm(in.)	Φ28.6(Φ1-1/8)	Φ28.6(Φ1-1/8)
	High pressure gas balance pipe	mm(in.)	Φ19.1(Φ3/4)	Φ19.1(Φ3/4)
	Oil balance pipe	mm(in.)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)
Air flow rate	m³/h	27000	30000	30000
Sound pressure level	dB(A)	63	64	64
Net dimension (WxHxD)	mm	1250x1615x765	x2	
	inch	49-7/32x63-9/16x30-1/8	x2	
Packing size (WxHxD)	mm	1305x1790x820	x2	
	inch	51-9/16x70-1/2x32-1/2	x2	
Net weight	kg(lbs.)	255+303(561+666.6)		303x2(666.6x2)
Gross weight	kg(lbs.)	273+322(600.6+708.4)		322x2(708.4x2)
Operating temperature range	°C(F)	Cooling: -5~48(23~118.4); Heating: -20~24(-4~75.2); Simultaneous Cooling and Heating: -5~24(23~75.2)		



Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.
Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.
Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.
Connection piping diameter of single-unit is the stop valve diameter of the unit.
Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, in case of the total equivalent liquid length is less than 90m(295ft.). If the total equivalent liquid length is more than 90m(295ft.), please refer to technical manual to choose the connection piping diameter.
Sound values are measured in a semi-anechoic room, at a position of 1m(3.28ft.) in front of the unit and 1.3m(4.26ft.) above the floor.

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.
Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.
Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.
Connection piping diameter of single-unit is the stop valve diameter of the unit.
Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, in case of the total equivalent liquid length is less than 90m(295ft.). If the total equivalent liquid length is more than 90m(295ft.), please refer to technical manual to choose the connection piping diameter.
Sound values are measured in a semi-anechoic room, at a position of 1m(3.28ft.) in front of the unit and 1.3m(4.26ft.) above the floor.

**Indoor Units**

VRF V4 Plus indoor units

**Fresh Air Processing Unit**

100% fresh air supply

**Ventilation**

Heat recovery ventilator (HRV)

**AHU Connection Kit**

Connect to other brand AHU

**Control Systems**

Smart control systems



VRF V4 Plus W Series

Water Cooled

**Perfect combined
of water and
refrigerant system**

- » DC inverter compressors
- » Capacity up to 36HP
- » Connectable indoor units quantity up to 59
- » Cycle duty operation
- » Backup operation
- » Precise oil control technology
- » Low noise operation
- » Simple communication wiring
- » Easy maintenance

Wide Range of Outdoor Units »

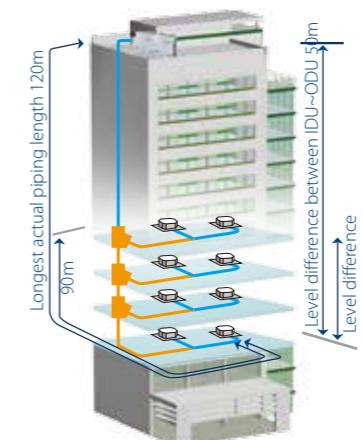
8/10/12HP

Max. 3 units combination



The Water Cooled V4+W Series capacity ranges from 8HP to 36HP, meets all customer requirements from small to large buildings.

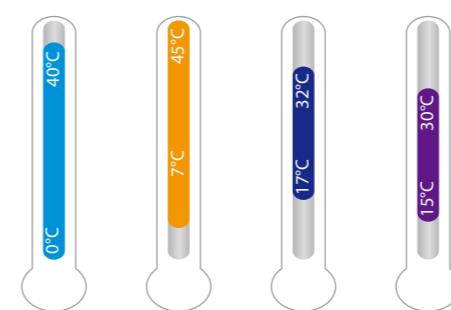
Long Piping Length »



Total piping length	300m	984ft.
Longest length actual (Equivalent)	120(150)m	394(492)ft.
Longest length after first branch	90*m	295*ft.
Level difference between indoor and outdoor units - ODU up (down)	50(40)m	164(131)ft.
Level difference between indoor units	30m	98ft.

*The longest piping length is 40m standard. It can be extended to 90m. When the length is over 40m, please contact your local Midea dealer for more information and restrictions.

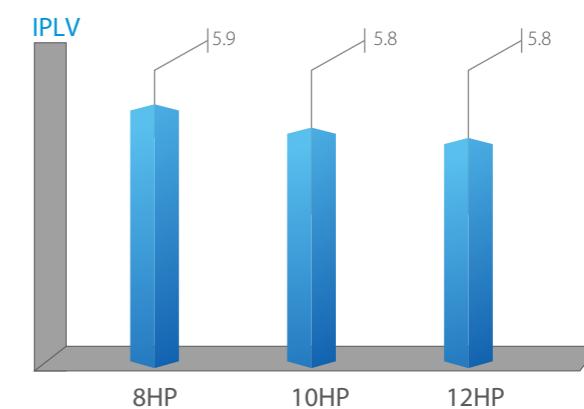
Wide Operation Temperature Range »



- Main unit ambient temperature: 0°C~40°C
- Main unit water inlet temperature: 7°C~45°C
- Indoor temperature in cooling mode: 17°C~32°C
- Indoor temperature in heating mode: 15°C~30°C

High IPLV »

Midea V4 Plus W Series System combines water system and refrigerant system perfectly. IPLV(C) reaches as high as 5.9. Compared with air-cooled VRF, energy saving is higher.



High Efficiency Double-Pipe Heat Exchanger »

With the innovatively designed double-pipe heat exchanger, the water quality required is low. The water side has large circulation area, and it is not easily plugged, creating higher reliability and easier cleaning and maintenance.



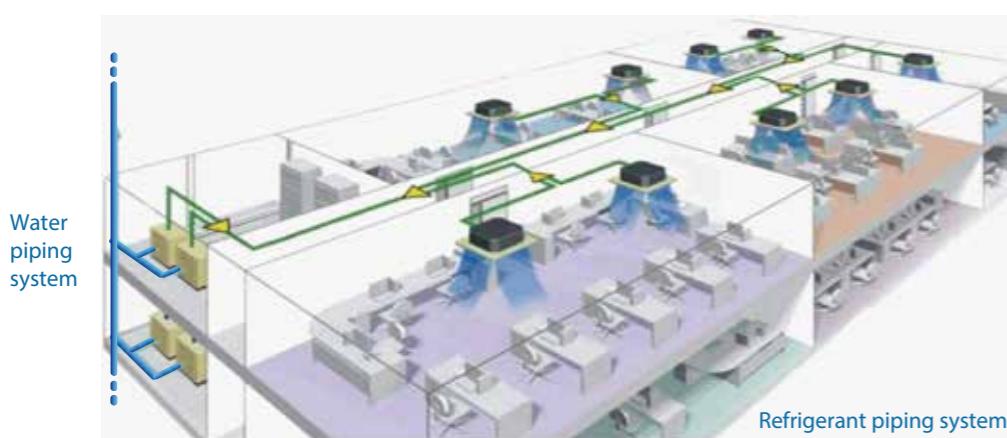
Water Side Heat Recovery Function »

In modern large-scale buildings, the load between the internal and external areas is different. It may occur in some situations that both cooling and heating are required. The V4 PLUS W Series not only can achieve meticulous system division in different areas but also can recover heat at the same time, significantly improving energy efficiency.



No Water Leakage »

No water pipes installed indoors, no water leakage risks.



VRF V4 Plus W Series - Water Cooled



HP	8	10	12	16	18	20	22
Model MDVS-	252(8)W/DCN1	280(10)W/DCN1	335(12)W/DCN1	504(16)W/DCN1	532(18)W/DCN1	560(20)W/DCN1	615(22)W/DCN1
Combined type	/	/	/	8HPx2	8HP+10HP	10HPx2	10HP+12HP
Power supply	V/Ph/Hz				380-415/3/60		
Cooling	Capacity	kW	25.2	28	33.5	50.4	53.2
		kBtu/h	86	95.5	114.3	172	181.5
	Power input	kW	4.8	6.1	8	9.6	10.9
	EER		5.25	4.59	4.19	5.25	4.88
Heating	Capacity	kW	27	31.5	37.5	54	58.5
		kBtu/h	92.1	107.5	128	184.2	199.6
	Power input	kW	4.45	5.83	7.8	8.9	10.3
	COP		6.07	5.4	4.81	6.07	5.69
Connectable	Total capacity				50~130% of outdoor unit capacity		
indoor unit	Max. quantity		13	16	19	23	29
Compressor	Type				DC inverter		
	Quantity		1	1	1	2	2
Heat	Type				Double-pipe heat exchanger		
exchanger	Rated water flow volume	m³/h	5.4	6	7.2	5.4x2	5.4+6
Refrigerant	Type				R410A		
	Factory charging	kg(lbs.)	2(4.4)	2(4.4)	2(4.4)	2x2(4.4x2)	2x2(4.4x2)
Pipe	Liquid pipe	mm(in.)	Φ12.7(Φ1/2)	Φ12.7(Φ1/2)	Φ15.9(Φ5/8)	Φ12.7(Φ1/2)	Φ15.9(Φ5/8)
connections	Gas pipe	mm(in.)	Φ25.4(Φ1)	Φ25.4(Φ1)	Φ31.8(Φ1-1/4)	Φ28.6(Φ1-1/8)	Φ28.6(Φ1-1/8)
	Oil balance pipe	mm(in.)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)
Sound pressure level	dB(A)		51	52	52	53	53
Net dimension (WxHxD)	mm		780x1000x550				(780x1000x550)x2
	inch		30-45/64x39-3/8x21-21/32				(30-45/64x39-3/8x21-21/32)x2
Packing size (WxHxD)	mm		845x1170x600				(845x1170x600)x2
	inch		33-17/64x46-1/16x23-5/8				(33-17/64x46-1/16x23-5/8)x2
Net weight	kg	146	146	147	146x2	146x2	146+147
Gross weight	kg	155	155	156	155x2	155x2	155+156
Operating temperature range	°C(°F)						Water inlet temp.: 7-45(44.6-113); ambient temp.: 0-40(32-104)

HP	24	26	28	30	32	34	36
Model MDVS-	670(24)W/DCN1	784(26)W/DCN1	812(28)W/DCN1	840(30)W/DCN1	895(32)W/DCN1	950(34)W/DCN1	1005(36)W/DCN1
Combined type	12HPx2	8HPx2+10HP	8HP+10HPx2	10HPx3	10HPx2+12HP	10HP+12HPx2	12HPx3
Power supply	V/Ph/Hz			380-415/3/60			
Cooling	Capacity	kW	67	78.4	81.2	84	89.5
		kBtu/h	228.6	267.5	277	286.5	305.3
	Power input	kW	16	15.7	17	18.3	20.2
	EER		4.19	4.99	4.78	4.59	4.43
Heating	Capacity	kW	75	85.5	90	94.5	100.5
		kBtu/h	256	291.7	307.1	322.5	343
	Power input	kW	15.6	14.73	16.11	17.49	19.46
	COP		4.81	5.80	5.59	5.40	5.16
Connectable	Total capacity				50~130% of outdoor unit capacity		
indoor unit	Max. quantity		39	43	46	50	56
Compressor	Type				DC inverter		
	Quantity		2	3	3	3	3
Heat	Type				Double-pipe heat exchanger		
exchanger	Rated water flow volume	m³/h	7.2x2	5.4x2+6	5.4+6x2	6x3	6x2+7.2
Refrigerant	Type				R410A		
	Factory charging	kg(lbs.)	2x2(4.4x2)	2x3(4.4x3)	2x3(4.4x3)	2x3(4.4x3)	2x3(4.4x3)
Pipe	Liquid pipe	mm(in.)	Φ15.9(Φ5/8)	Φ19.1(Φ3/4)	Φ19.1(Φ3/4)	Φ19.1(Φ3/4)	Φ19.1(Φ3/4)
connections	Gas pipe	mm(in.)	Φ28.6(Φ1-1/8)	Φ31.8(Φ1-1/4)	Φ31.8(Φ1-1/4)	Φ31.8(Φ1-1/4)	Φ38.1(Φ1-1/2)
	Oil balance pipe	mm(in.)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)	Φ6.35(Φ1/4)
Sound pressure level	dB(A)		54	55	55	56	57
Net dimension (WxHxD)	mm		(780x1000x550)x2				(780x1000x550)x3
	inch		30-45/64x39-3/8x21-21/32x2				(30-45/64x39-3/8x21-21/32)x3
Packing size (WxHxD)	mm		845x1170x600)x2				(845x1170x600)x3
	inch		33-17/64x46-1/16x23-5/8x2				(33-17/64x46-1/16x23-5/8)x3
Net weight	kg	147x2	146x3	146x3	146x3	146x2+147	147x3
Gross weight	kg	156x2	155x3	155x3	155x3	155x2+156	156x3
Operating temperature range	°C(°F)						Water inlet temp.: 7-45; ambient temp.: 0-40

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB; Water inlet temperature 30°C(86°F);
Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB; Water inlet temperature 20°C(68°F).
Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.
Connection piping diameter of single-unit is the stop valve diameter of the unit.
Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, in case of the total equivalent liquid length is less than 90m(295ft). If the total equivalent liquid length is more than 90m(295ft), please refer to technical manual to choose the connection piping diameter.
Sound values are measured in a semi-anechoic room, at a position of 1m(3.28ft) in front of the unit and 1m(3.28ft) above the floor.

**Indoor Units**

VRF V4 Plus indoor units

**Ventilation**

Heat recovery ventilator (HRV)

**Control Systems**

Smart control systems

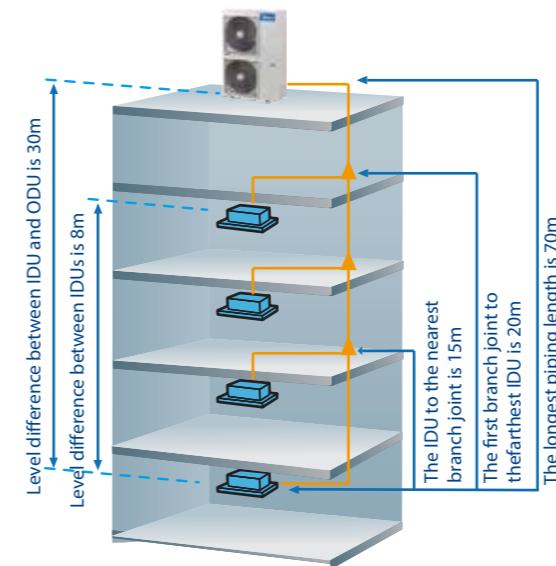


VRF V4 Plus Mini Series Heat Pump

**Optimized design
for small buildings**

- » DC inverter compressor
- » DC fan motor
- » Capacity up to 18kW
- » Connectable indoor units quantity up to 9
- » Precise oil control technology
- » Advanced silence technology
- » Intelligent defrosting technology
- » Simple communication wiring
- » Auto addressing
- » Easy maintenance

Long Piping Length »



	10.5kW		12-16kW	
Total piping length	100m	328ft.	100m	328ft.
Longest length actual (Equivalent)	45(50)m	148(164)ft.	60(70)m	197(230)ft.
Longest length after first branch	20m	66ft.	20m	66ft.
Level difference between indoor and outdoor units - ODU up (down)	30(20)m	98(66)ft.	30(20)m	98(66)ft.
Level difference between indoor units	8m	26ft.	8m	26ft.

More Convenient Piping Connector – Branch Box »



Four-way Piping Connection »



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

VRF V4 Plus Mini Series - Heat Pump



HP		4	4.5	5	6
Model MDV-		V105W/DVN1	V120W/DVN1	V140W/DVN1	V160W/DVN1
Power supply		208-230/1/60			
Cooling	Capacity	kW	10.5	12.0	14.0
		kBtu/h	35.8	40.9	47.8
	Power input	kW	2.68	3.25	3.95
	EER		3.92	3.69	3.54
Heating	Capacity	kW	11.5	13.2	15.4
		kBtu/h	39.2	45.0	52.5
	Power input	kW	2.90	3.47	4.16
	COP		3.97	3.80	3.70
Connectable	Total capacity	45~130% of outdoor unit capacity			
indoor unit	Max. quantity	5	6	6	7
Compressor	Type	Rotary			
	Quantity	1	1	1	1
Fan motor	Type	DC motor			
	Quantity	1	2	2	2
Refrigerant	Type	R410A			
	Factory charging	kg(lbs.)	3(6.6)	3.3(7.3)	3.9(8.6)
Pipe	Liquid pipe	mm(in.)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)
connections	Gas pipe	mm(in.)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)
Air flow rate	m³/h	5100	6000	6000	6000
Sound pressure level	dB(A)	57	57	57	57
Net dimension (WxHxD)	mm	1075x966x396	900x1327x400	900x1327x400	900x1327x400
	inch	42-21/64 x38-1/32 x15-19/32	35-7/14x52-1/4x15-3/4	35-7/14x52-1/4x15-3/4	35-7/14x52-1/4x15-3/4
Packing size (WxHxD)	mm	1120x1100x435	1030x1456x435	1030x1456x435	1030x1456x435
	inch	44-3/32 x43-5/16 x17-1/8	40-9/16x57-5/16x17-1/8	40-9/16x57-5/16x17-1/8	40-9/16x57-5/16x17-1/8
Net weight	kg(lbs.)	78(171.9)	95(209.4)	95(209.4)	102(224.9)
Gross weight	kg(lbs.)	85(187.3)	106(233.7)	106(233.7)	113(249.1)
Operating temperature range	°C(°F)	Cooling -15~43°C (5~109.4°F) Heating -15~27°C (5~80.6°F)			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Sound values are measured in a semi-anechoic room, at a position of 1m(3.28ft) in front of the unit and 1m(3.28ft) above the floor.

In Mini VRV system, if only one indoor unit is connected, the capacity of indoor unit should be not more than outdoor unit's capacity. If more than one indoor unit are connected, the capacity of each indoor unit should be not more than 8kW for refrigerant uniform distribution.

VRF V4 Plus Mini Series - Heat Pump



HP		4.5	5	6
Model MDV-		V120W/DCN1	V140W/DCN1	V160W/DCN1
Power supply		380-415/3/60		
Cooling	Capacity	kW	12.0	14.0
		kBtu/h	40.9	47.8
	Power input	kW	3.25	3.95
	EER		3.69	3.54
Heating	Capacity	kW	13.2	15.4
		kBtu/h	45.0	52.5
	Power input	kW	3.47	4.16
	COP		3.8	3.7
Connectable	Total capacity	45~130% of outdoor unit capacity		
indoor unit	Max. quantity	6	6	7
Compressor	Type	Rotary		
	Quantity	1	1	1
Fan motor	Type	DC motor		
	Quantity	2	2	2
Refrigerant	Type	R410A		
	Factory charging	kg(lbs.)	3.3(7.3)	3.9(8.6)
Pipe	Liquid pipe	mm(in.)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)
connections	Gas pipe	mm(in.)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)
Air flow rate	m³/h	6983	6500	6000
Sound pressure level	dB(A)	57	57	57
Net dimension (WxHxD)	mm	900x1327x400		
	inch	35-7/14x52-1/4x15-3/4		
Packing size (WxHxD)	mm	1030x1456x435		
	inch	40-9/16x57-5/16x17-1/8		
Net weight	kg(lbs.)	92(203)	95(209.4)	102(224.9)
Gross weight	kg(lbs.)	106(234)	106(233.7)	113(249.1)
Operating temperature range	°C(°F)	Cooling -15~43°C (5~109.4°F) Heating -15~27°C (5~80.6°F)		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C(80.6°F) DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB.

Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB.

Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero.

Sound values are measured in a semi-anechoic room, at a position of 1m(3.28ft) in front of the unit and 1m(3.28ft) above the floor.

In Mini VRV system, if only one indoor unit is connected, the capacity of indoor unit should be not more than outdoor unit's capacity. If more than one indoor unit are connected, the capacity of each indoor unit should be not more than 8kW for refrigerant uniform distribution.



» INDOOR UNITS

One-way Cassette
Two-way Cassette
Compact Four-way Cassette
Four-way Cassette
Medium Static Pressure Duct

High Static Pressure Duct
Wall-mounted
Ceiling & Floor
Fresh Air Processing Unit

Cassette Series



One-way Cassette



Two-way Cassette



Compact Four-way Cassette



Four-way Cassette



One-way Cassette

Thickness 153mm (6-1/32in.) only ➤

Compact design, ultra slim body with a minimum thickness of 153mm(6-1/32in.) for models 18-36, especially suitable for narrow ceiling , such as in lobbies and small meeting rooms.



High-lift Pump ➤

Standard built-in drain pump with 750mm(29-17/32in.) pump head.



Fresh Air, Improved Air Quality ➤

Reserved fresh air intake port for high quality air creates a comfortable and healthy environment (for models 45-71).



Specifications

Model		MDV-D18Q1/VN1-DMDV-D22Q1/VN1-D MDV-D28Q1/VN1-D MDV-D36Q1/VN1-D MDV-D45Q1/VN1-DMDV-D56Q1/VN1-D MDV-D71Q1/VN1-D								
Power supply		1-phase,208-230V,60Hz								
Cooling capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1		
	Btu/h	6100	7500	9600	12300	15400	19100	24200		
Heating capacity	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0		
	Btu/h	7500	8900	10900	13600	17100	21500	27300		
Power input	Cooling	W	41	41	41	41	54	60		
	Heating	W	41	41	41	41	54	60		
Airflow rate(H/M/L)	m³/h	523/404/275	523/404/275	573/456/315	573/456/315	693/600/476	792/688/549	933/749/592		
	CFM	308/238/162	308/238/162	337/268/185	337/268/185	408/353/280	466/405/323	549/441/349		
Sound pressure level(H/M/L)	dB(A)	37/34/30	38/34/30	39/37/34	40/38/34	41/39/35	42/40/36	44/41/37		
Main body	Net dim.(WxHxD)	mm(in.) 1054x153x425(41-1/2x6-1/32x16-47/64)				1275x189x450(50-13/64x7-7/16x17-23/32)				
	Packing dim.(WxHxD)	mm(in.) 1155x245x490(45-15/32x9-41/64x19-19/64)				1370x295x505(53-15/16x11-39/64x19-7/8)				
	Net/gross weight	kg(lbs) 12.5/16(27.8/35.3)		13/16.5(28.8/36.4)		18.5/22.8(40.8/50.3)18.8/23.1(41.4/50.9) 19.23/28(43.0/52.5)				
Panel	Net dim.(WxHxD)	mm(in.) 1180x25x465(46-29/64x63/64x18-5/16)				1350x25x505(53-5/32x63/64x19-7/8)				
	Packing dim.(WxHxD)	mm(in.) 1232x107x517(48-1/2x4-7/32x20-23/64)				1410x95x560(55-33/64x3-47/64x22-3/64)				
	Net/gross weight	kg(lbs) 3.5/5.2(7.7/11.5)				4/5.4(8.8/11.9)				
Piping	Liquid/gas pipe	mm(in.) Ø6.35/Ø12.7(Φ1/4/Φ1/2)				Ø9.53/Ø15.9(Φ3/8/Φ5/8)				
connections	Drain pipe	mm(in.) Ø25(OD 63/64)				Wireless remote controller				
Standard controller										

Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Sound Level is measured 1.4m(4.59ft.) below the unit.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Two-way Cassette

Quiet Operation »

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

Stylish Design and Slim Body »

Thanks to the stylish appearance and slim body, the unit can be harmonious with the room decoration and ambient. Slim body with only 300mm(11-13/16in.) height needs small space in suspended ceilings. Installation is free of story height limitation which makes the decoration much more flexible.



High-lift Pump »

Standard built-in drain pump with 750mm(29-17/32in.) pump head (higher pumphead can be customized).

High Airflow »

High airflow for high ceiling application guarantees comfort in large spaces. Guarantees even airflow and temperature throughout the room.



Specifications

Model	MDV-D22Q2/VN1	MDV-D28Q2/VN1	MDV-D36Q2/VN1	MDV-D45Q2/VN1	MDV-D56Q2/VN1	MDV-D71Q2/VN1
Power supply						
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
Btu/h	7500	9600	12300	15400	19100	24200
Heating capacity	kW	2.6	3.2	4.0	5.0	6.3
Btu/h	8900	10900	13600	17100	21500	27300
Power input	Cooling W	78	78	83	115	133
	Heating W	78	78	83	115	133
Airflow rate(H/M/L)	m³/h	674/509/381	740/577/435	740/577/435	878/689/561	941/776/654
	CFM	397/300/224	436/340/256	436/340/256	517/406/330	554/457/385
Sound pressure level(H/M/L)	dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30
Main body	Net dim.(WxHxD) mm(in.)	1172x299x591(46-9/32x11-49/64x23-17/64)				
	Packing dim.(WxHxD) mm(in.)	1355x400x675(53-11/32x15-3/4x26-37/64)				
	Net/gross weight kg(lbs.)	34/42.5(75/94)				
Panel	Net dim.(WxHxD) mm(in.)	1430x53x680(56-19/64x2-3/32x26-49/64)				
	Packing dim.(WxHxD) mm(in.)	1525x130x765(60-3/64x5-1/8x30-1/8)				
	Net/gross weight kg(lbs.)	10.5/15(23/33)				
Piping connections	Liquid/gas pipe mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)		Φ9.53/Φ15.9(Φ3/8/Φ5/8)		
	Drain pipe mm(in.)	Φ32(OD 1-17/64)				
Standard controller			Wireless remote controller			

- Notes:
- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
 - Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
 - Sound Level is measured 1.4m(4.59ft.) below the unit.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

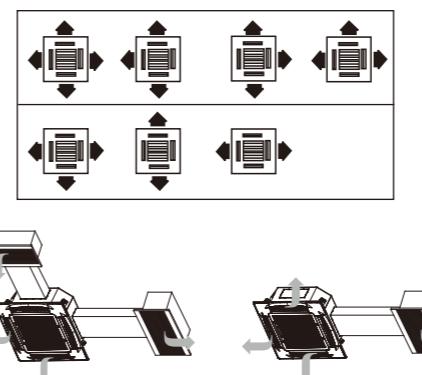
Four-way Cassette

Various Selections »

Two selections: Compact Four-way Cassette and Four-way Cassette.

Flexible Air Distribution Type »

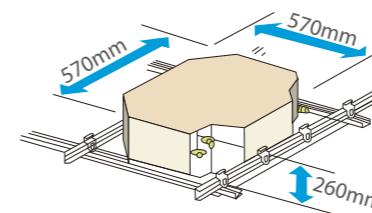
7 discharge patterns in 2 to 4 directions can be selected to suit the requirements of the installation site or the shape of the room.



Duct connection is possible

Compact Design, Easy Installation »

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



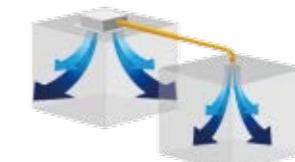
360°Airflow Outlet »

For Compact Four-way Cassette: 360° air outlet provides strong air flow circulation to cool or heat every corner of a room and evenly control temperatures.



Sub Duct »

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



Fresh Air Intake »

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



Easy Troubleshooting »

For Four-way Cassette: By adding digital tube on the display board, Error Codes can be displayed directly for troubleshooting.



Lower Operating Noise »

For Four-way Cassette: The newly designed fan blade, air deflector and the built-in throttling part reduce noise greatly.



High-lift Drain Pump »

For Compact Four-way Cassette: Drain pump with a 500mm(19-11/16in.) pump head is fitted as standard; maximum 600mm(23-5/8in.) pump head is available.

For Four-way Cassette: Drain pump can pump condenser water up to 750mm(29-17/32in.) high, which simplifies installation of the drain piping system.



Compact Four-way Cassette

Model	MDV-D22Q4/VN1-A3	MDV-D28Q4/VN1-A3
Power supply		
Cooling capacity	kW	2.2
	Btu/h	7500
Heating capacity	kW	2.4
	Btu/h	8200
Power input	Cooling	W
	Heating	W
Airflow rate(H/M/L)	m³/h	397/292/215
	CFM	234/172/127
Sound pressure level(H/M/L)	dB(A)	35.8/33.4/23.4
Main body	Net dim.(WxHxD) Packing dim.(WxHxD) Net/gross weight	570x260x570(22-7/16x10-15/64x22-7/16) 675x285x675(26-9/16x11-7/32x26-9/16) 16/20(35.3/44.1)
Panel	Net dim.(WxHxD) Packing dim.(WxHxD) Net/gross weight	647x50x647(25-15/32x1-31/32x25-15/2) 715x123x715(28-5/32x4-27/32x28-5/32) 2.5/4.5(5.5/9.9)
Piping connections	Liquid/gas pipe Drain pipe	Φ6.35/Φ12.7(Φ1/4/Φ1/2) Φ25(OD 63/64)
Standard controller		Wireless remote controller

Four-way Cassette

Model	MDV-D28Q4/VN1-E	MDV-D36Q4/VN1-E	MDV-D45Q4/VN1-E	MDV-D56Q4/VN1-E	MDV-D71Q4/VN1-E
Power supply					
Cooling capacity	kW	2.8	3.6	4.5	5.6
	Btu/h	9600	12300	15400	19100
Heating capacity	kW	3.2	4.0	5.0	6.3
	Btu/h	10900	13600	17100	21500
Power input	Cooling	W	80	88	88
	Heating	W	80	88	88
Airflow rate(H/M/L)	m³/h	791/674/596	791/674/596	942/777/662	942/777/662
	CFM	465/396/351	465/396/351	554/457/389	554/457/389
Sound pressure level(H/M/L)	dB(A)	30/25/22	30/25/22	35/31/27	35/31/27
Main body	Net dim.(WxHxD) Packing dim.(WxHxD) Net/gross weight	840x230x840(33-1/16x9-1/16x33-1/16) 955x260x955(37-19/32x10-1/4x37-19/32) 21.5/26.7(47.3/58.7)			
Panel	Net dim.(WxHxD) Packing dim.(WxHxD) Net/gross weight	950x54.5x950(37-13/32x2-9/64x37-13/32) 1035x90x1035(40-3/4x3-9/16x40-3/4) 6/9(13.2/19.8)			
Piping connections	Liquid/gas pipe Drain pipe	Φ6.35/Φ12.7(Φ1/4/Φ1/2) Φ32(OD 1-17/64)			
Standard controller					Wireless remote controller

Model	MDV-D36Q4/VN1-A3	MDV-D45Q4/VN1-A3
Power supply		
Cooling capacity	kW	3.6
	Btu/h	12300
Heating capacity	kW	4.0
	Btu/h	13600
Power input	Cooling	W
	Heating	W
Airflow rate(H/M/L)	m³/h	496/359/263
	CFM	292/211/155
Sound pressure level(H/M/L)	dB(A)	41.5/35.6/28.8
Main body	Net dim.(WxHxD) Packing dim.(WxHxD) Net/gross weight	570x260x570(22-7/16x10-15/64x22-7/16) 675x285x675(26-9/16x11-7/32x26-9/16) 18/22(39.7/48.5)
Panel	Net dim.(WxHxD) Packing dim.(WxHxD) Net/gross weight	647x50x647(25-15/32x1-31/32x25-15/2) 715x123x715(28-5/32x4-27/32x28-5/32) 2.5/4.5(5.5/9.9)
Piping connections	Liquid/gas pipe Drain pipe	Φ6.35/Φ12.7(Φ1/4/Φ1/2) Φ25(OD 63/64)
Standard controller		Wireless remote controller

- Notes:
- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
 - Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
 - Sound Level is measured 1.4m(4.59ft.) below the unit.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Model	MDV-D80Q4/VN1-E	MDV-D90Q4/VN1-E	MDV-D100Q4/VN1-E	MDV-D112Q4/VN1-E	MDV-D140Q4/VN1-E
Power supply					
Cooling capacity	kW	8.0	9.0	10.0	11.2
	Btu/h	27300	30700	34100	38200
Heating capacity	kW	9.0	10.0	11.1	12.5
	Btu/h	30700	34100	37900	42700
Power input	Cooling	W	120	187	200
	Heating	W	120	187	200
Airflow rate(H/M/L)	m³/h	1235/1013/805	1333/1158/957	1634/1219/1139	1692/1243/1157
	CFM	726/596/474	784/681/563	961/717/670	995/731/681
Sound pressure level(H/M/L)	dB(A)	43/37/31	43/38/32	45/37/35	45/37/35
Main body	Net dim.(WxHxD) Packing dim.(WxHxD) Net/gross weight	840x230x840(33-1/16x9-1/16x33-1/16) 955x260x955(37-19/32x10-1/4x37-19/32) 23.7/28.9(52.1/63.6)			
Panel	Net dim.(WxHxD) Packing dim.(WxHxD) Net/gross weight	950x54.5x950(37-13/32x2-9/64x37-13/32) 1035x90x1035(40-3/4x3-9/16x40-3/4) 6/9(13.2/19.8)			
Piping connections	Liquid/gas pipe Drain pipe	Φ9.53/Φ15.9(Φ3/8/Φ5/8) Φ32(OD 1-17/64)			
Standard controller					Wireless remote controller

- Notes:
- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
 - Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
 - Sound Level is measured 1.4m(4.59ft.) below the unit.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Duct series

Indoor Unit Lineup

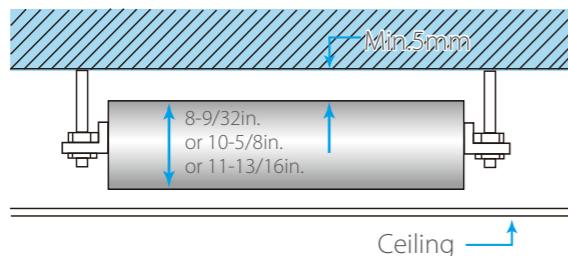


Indoor Unit Lineup

Medium Static Pressure Duct

Compact Size >>

Only 210mm(8-9/32in.) (models 22~71) or 270mm(10-5/8in.) (models 80 to 112) or 300mm(11-13/16in.) (model 140) in height.



Convenient Installation >>

EXV is fixed inside the indoor unit.

Standard filter is housed in an aluminum frame.

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



High-lift Drain Pump >>

Drain pump with a 750mm pump head is fitted as standard.

Flexible Control and Easy Maintenance >>

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).



Specifications

Model	MDV-D22T2/VN1-DA5	MDV-D28T2/VN1-DA5	MDV-D36T2/VN1-DA5	MDV-D45T2/VN1-DA5	MDV-D56T2/VN1-DA5	
Power supply	1-phase,208-230V,60Hz					
Cooling capacity	kW	2.2	2.8	3.6	4.5	
	Btu/h	7500	9600	12300	15400	
Heating capacity	kW	2.6	3.2	4.0	5.0	
	Btu/h	8200	10900	13600	17100	
Power input	Cooling	W	66	72	77	
	Heating	W	66	72	77	
Airflow rate(H/M/L)	m³/h	538/456/375	538/456/375	597/514/429	811/684/575	
	CFM	317/268/221	317/268/221	351/303/253	477/403/338	
External static pressure(Min/Std/Max)	Pa	0/10/30	0/10/30	0/10/30	0/10/30	
Sound pressure level(H/M/L)	dB(A)	36/35/32	36/35/32	38.6/37.5/33.8	39/37.9/34	
Net dimension(WxHxD)	mm(in.)	30-45/64x8-17/64x19-11/16(780x210x500)				
Packing dimension(WxHxD)	mm(in.)	870x285x525(34-1/4x11-7/32x20-43/64)				
Net/gross weight	kg(lbs.)	17.5/20(38.6/44.1)				
Piping connections	Liquid/gas pipe	mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)			Φ9.53/Φ15.9(Φ3/8/Φ5/8)
	Drain piping	mm(in.)	Φ25(OD 63/64)			
Standard controller			Wired controller			

Model	MDV-D71T2/VN1-DA5	MDV-D80T2/VN1-BA5	MDV-D90T2/VN1-BA5	MDV-D112T2/VN1-BA5	MDV-D140T2/VN1-BA5	
Power supply	1-phase,208-230V,60Hz					
Cooling capacity	kW	7.1	8.0	9.0	11.2	
	Btu/h	24200	27300	30700	38200	
Heating capacity	kW	8.0	9.0	10.0	12.5	
	Btu/h	27300	30700	34100	42700	
Power input	Cooling	W	125	133	134	
	Heating	W	125	133	134	
Airflow rate(H/M/L)	m³/h	1029/934/781	1345/1165/1013	1345/1165/1013	1800/1556/1400	
	CFM	606/550/460	792/686/596	792/686/596	1059/916/824	
External static pressure(Min/Std/Max)	Pa	0/10/30	10/20/50	10/20/50	10/40/100	
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	
Net dimension(WxHxD)	mm(in.)	48-1/32x8-17/64x19-11/16 (1220x210x500)				
Packing dimension(WxHxD)	mm(in.)	1335x285x525(52-9/16x 11-7/32x20-43/64)				
Net/gross weight	kg(lbs.)	28/31.5(61.8/69.5)	38/46.5(84/102.5)	40/48(88.2/105.8)	49/58(108.0/127.9)	
Piping connections	Liquid/gas pipe	mm(in.)	Φ9.53/Φ15.9(Φ3/8/Φ5/8)			
	Drain piping	mm(in.)	Φ25(OD 63/64)			
Standard controller			Wired controller			

Notes:

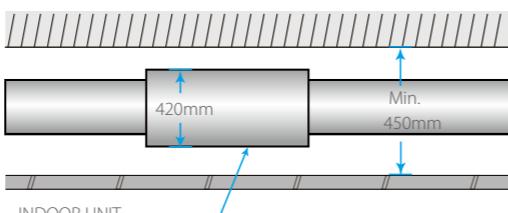
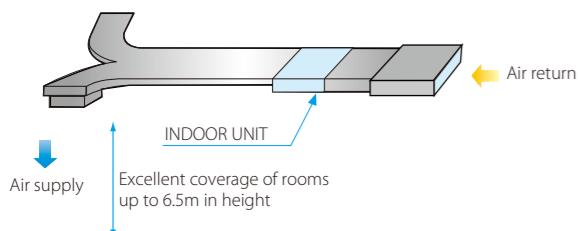
- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Sound Level is measured 1.4m(4.59ft.) below the unit.
- * External static pressure is based on high speed indoor air flow.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

High Static Pressure Duct

Flexible Duct Design >>

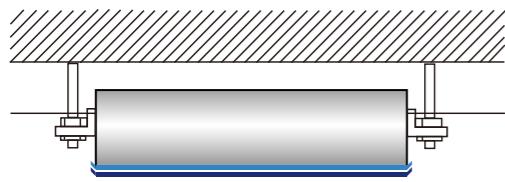
External static pressure can be up to 196Pa (models 71 to 160) or 280Pa (models 200 to 560).

With a 420mm(16-17/32in.) (models 71 to 160) thick body, the minimum distance required above the ceiling is 450mm (17-23/32in.).



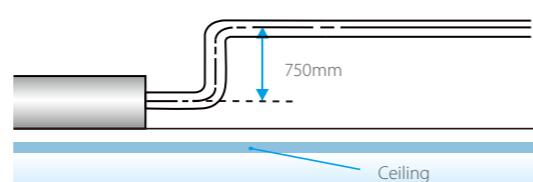
Double-skin Drainage Pan >>

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



Option >>

Drain pump with 750mm(29-17/32in.) pump head is optional (models 71 to 160).



Convenient Installation >>

The EXV is fixed inside the indoor unit (models 71 to 160), requires no extra connection.

Standard filter is housed in an aluminum frame (models 71 to 280), which is removable from the bottom in a downward direction.

Flange for air inlet/outlet duct connection is standard.

Flexible Control and Convenient for Maintenance >>

Wired remote controller KJR-29B1/BK-E comes standard.

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

Easy access filters both at the rear & bottom.

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



Specification

Model	MDV-D71T1/VN1-B	MDV-D80T1/VN1-B	MDV-D90T1/VN1-B	MDV-D112T1/VN1-B	MDV-D140T1/VN1-B	MDV-D160T1/VN1-B		
Power supply	1-phase,208-230V,60Hz							
Cooling capacity	kW	7.1	8	9	11.2	14		
	Btu/h	24200	27300	30700	38200	47800		
Heating capacity	kW	8	9	10	12.5	16		
	Btu/h	27300	30700	34100	42700	54600		
Power input	Cooling	W	414	402	409	527		
	Heating	W	414	402	409	527		
Airflow rate(H/M/L)	m³/h	1720/1532/1338	1690/1560/1320	2252/2030/1610	2198/1978/1570	2969/2694/2469		
	CFM	1012/902/788	994/918/777	1326/1195/948	1294/1164/924	1746/1586/1453		
External static pressure(Min/Std/Max)	Pa	25/25/196	37/37/196	37/37/196	50/50/196	50/50/196		
Sound pressure level(H/M/L)	dB(A)	48/46/45	48/46/45	52/49/47	52/49/47	53/50/48		
Net dimension(WxHxD)	mm(in.)	952x420x690(37-31/64x16-17/32x27-11/64)				1300x420x690(51-3/16x15-3/4x27-5/32)		
Packing dimension(WxHxD)	mm(in.)	1090x440x768(42-29/32x17-21/64x30-15/64)				1436x450x768(56-17/32x17-23/32x30-15/64)		
Net/gross weight	kg(lbs.)	46.5/52(102.6/114.7)		50/56.5(110.3/124.6)		68/70(149.9/154.3) 69.5/76(153.3/167.6)		
Piping connections	Liquid/gas pipe	mm(in.)	Φ9.53/Φ15.9(Φ3/8/Φ5/8)					
	Drain piping	mm(in.)	Φ25(OD 63/64)					
Standard controller			Wired controller					

Model	MDV-D200T1/N1-B	MDV-D250T1/N1-B	MDV-D280T1/N1-B	MDV-D400T1/N1	MDV-D450T1/N1	
Power supply	1-phase,208-230V,60Hz					
Cooling capacity	kW	20.0	25.0	28.0	40.0	
	Btu/h	68200	85300	95500	136500	
Heating capacity	kW	22.5	26.0	31.5	45.0	
	Btu/h	76800	88700	107500	153500	
Power input	Cooling	W	1516	1516	1600	
	Heating	W	1516	1516	1600	
Airflow rate(H/M/L)	m³/h	4700/4100/3599	4700/4100/3599	4700/4100/3599	7180/6150/4600	
	CFM	2766/2413/2118	2766/2413/2118	2766/2413/2118	4226/3620/2708	
External static pressure(Min/Std/Max)	Pa	50/200/280	50/200/280	50/200/280	50/200/280	
Sound pressure level(H/M/L)	dB(A)	59/55/52	59/55/52	59/55/52	61/59/56	
Net dimension(WxHxD)	mm(in.)	1440x505x925(56-11/16x19-7/8x36-27/6)				
Packing dimension(WxHxD)	mm(in.)	1509x550x990(59-13/32x21-21/32x38-31/32)				
Net/gross weight	kg(lbs.)	115/129(254/284)				
Piping connections	Liquid/gas pipe	mm(in.)	Φ9.53/Φ15.9x2(Φ3/8/Φ5/8)x2			
	Drain piping	mm(in.)	Φ32(OD 1-17/64)			
Standard controller			Wired controller			

Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Sound Level is measured 1.4m(4.59ft) below the unit.
- * External static pressure is based on high speed indoor air flow.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Wall-mounted

M9 panel



M2



M3 panel



M11



M10 panel

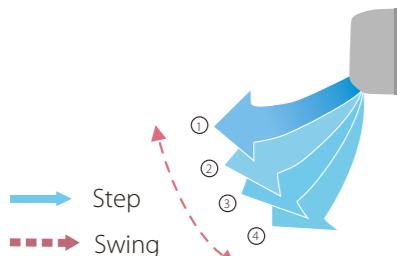


Various selections »

Interchangeable panels (M2, M3, M9, M10 and M11) add extra flexibility to a universal body design.

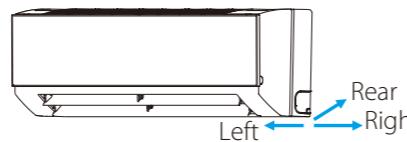
Auto swing louver »

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



Precise flow control »

A 2000-stage element mechanical expansion valve ensures precise flow control whilst generating little modulation noise.



Specification

M panel

Model	MI-22G/DHN1-M		MI-28G/DHN1-M		MI-36G/DHN1-M		MI-45G/DHN1-M			
Power supply			1-phase,220-240V,50/60Hz							
Capacity	Cooling	kW	2.2	2.8	3.6	4.5				
	Heating	kW	2.4	3.2	4	5				
Power input	Cooling	W	8	9	19	19				
	Heating	W	8	9	19	19				
Airflow rate (H/M/L)			m³/h	422/393/356	417/370/316	656/573/488	594/507/424			
Sound pressure level (H/M/L)			dB(A)	31/30/29	31/30/29	33/32/30	35/33/31			
Net dimension (WxHxD)			mm	835x280x203	835x280x203	990x315x223	990x315x223			
Packing dimension (WxHxD)			mm	935x385x320	935x385x320	1085x420x335	1085x420x335			
Net/ Gross weight			kg	8.4/12.1	9.5/13.1	11.4/15.5	12.8/16.9			
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7							
	Drain pipe	mm	OD Φ16.5							
Standard controller			Wireless remote controller							

Model	MI-56G/DHN1-M		MI-71G/DHN1-M		MI-80G/DHN1-M		MI-90G/DHN1-M	
Power supply			1-phase,220-240V,50/60Hz					
Capacity	Cooling	kW	5.6	7.1	8	9		
	Heating	kW	6.3	8	9	10		
Power input	Cooling	W	27	49	53	82		
	Heating	W	27	49	53	82		
Airflow rate (H/M/L)			m³/h	747/648/547	1195/1005/809	1195/1005/809	1421/1067/867	
Sound pressure level (H/M/L)			dB(A)	38/36/34	44/39/36	44/39/36	48/43/38	
Dimension (WxHxD)			mm	990x315x223	1194x343x262	1194x343x262	1194x343x262	
Packing (WxHxD)			mm	1085x420x335	1290x375x460	1290x375x460	1290x375x460	
Net/ Gross weight			kg	12.8/16.9	17/22.4	17/22.4	17/22.4	
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ16.5					
Standard controller			Wireless remote controller					

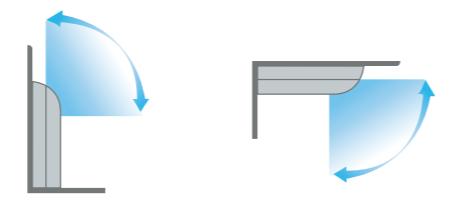
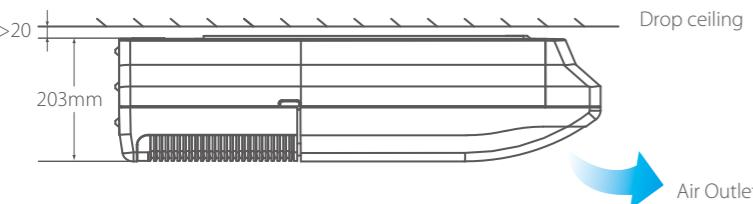
Ceiling & Floor



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.



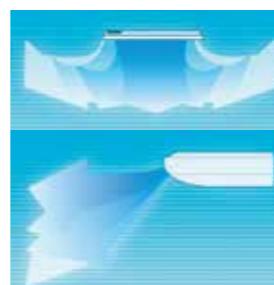
The unit can be installed either horizontally on the ceiling or vertically against the wall.

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 unit is set up.

Three air flow speeds: low, medium and high; double air guides.



Auto Swing & Wide-angle Airflow

More Comfortable »

Adopts electrical expansion valve, ensuring precise flow control, lower modulation noise when EXV is operating.

Low noise operations; minimum 36 dB(A).

Smoother airflow and less turbulence due to the multi-blade fan and the air guide design.

Specification

Model	MDV-D36DL/N1-C	MDV-D45DL/N1-C	MDV-D56DL/N1-C	MDV-D71DL/N1-C
Power supply	1-phase, 220-240V, 60Hz			
Cooling capacity	kW	3.6	4.5	5.6
	Btu/h	12300	15400	19100
Heating capacity	kW	4.0	5.0	6.3
	Btu/h	13600	17100	21500
Power input	Cooling	W	50	148
	Heating	W	50	148
Airflow rate(H/M/L)	m³/h	600/480/400	750/650/550	750/650/550
	CFM	353/283/235	441/383/324	441/383/324
Sound pressure level(H/M/L)	dB(A)	40/38/36	43/41/38	43/41/38
	Net dimension(WxHxD)	mm(in.)	990x203x660(38-31/32x7-63/64x25-63/64)	1089x296x744(42-7/8x11-21/32x29-9/32)
Packing dimension(WxHxD)	mm(in.)		26/32(57.3/70.6)	28/34(61.7/75.0)
	Net/gross weight	kg(lbs.)	28/34(61.7/75.0)	28/34(61.7/75.0)
Piping connections	Liquid/gas pipe	mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)	Φ9.53/Φ15.9(Φ3/8/Φ5/8)
	Drain piping	mm(in.)		Φ25(OD 63/64)
Standard controller				
Wireless remote controller				

Model	MDV-D80DL/N1-C	MDV-D90DL/N1-C	MDV-D112DL/N1-C	MDV-D140DL/N1-C	MDV-D160DL/VN1-C
Power supply	1-phase, 220-240V, 60Hz				
Cooling capacity	kW	8.0	9.0	11.2	14.0
	Btu/h	27300	30700	38200	47800
Heating capacity	kW	9.0	10.0	12.5	15.0
	Btu/h	30700	34100	42700	51200
Power input	Cooling	W	183	183	245
	Heating	W	183	183	245
Airflow rate(H/M/L)	m³/h	1200/900/700	1200/900/700	1980/1860/1730	1980/1860/1730
	CFM	706/530/412	706/530/412	1165/1095/1018	1165/1095/1018
Sound pressure level(H/M/L)	dB(A)	45/43/40	45/43/40	47/45/42	47/45/42
	Net dimension(WxHxD)	mm(in.)	1280x203x660(50-25/64x7-63/64x25-63/64)	1670x244x680(65-3/4x9-39/64x26-49/64)	1670x285x680(65-3/4x11-7/32x26-49/64)
Packing dimension(WxHxD)	mm(in.)		1379x296x744(54-19/64x11-21/32x29-19/64)	1764x329x760(69-29/64x12-61/64x29-59/64)	1775x377x760(69-7/8x14-27/32x29-59/64)
	Net/gross weight	kg(lbs.)	34.5/41(76.1/90.4)	54/59(119.0/130.1)	57.5/63.5(126.5/139.7)
Piping connections	Liquid/gas pipe	mm(in.)		Φ9.53/Φ15.9(Φ3/8/Φ5/8)	
	Drain piping	mm(in.)		Φ25(OD 63/64)	
Standard controller					Wireless remote controller

Notes:

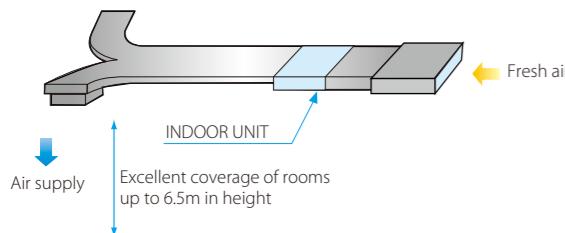
- Nominal cooling capacities are based on the following conditions: return air temp: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp: 20°C(68°F)DB, outdoor temp: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Floor standing : Sound level is measured 1m(3.28ft.) horizontally and 1m(3.28ft.) vertically from the air-outlet.
Ceiling mounted: Sound level is measured 1m(3.28ft.) horizontally and 1m(3.28ft.) vertically from the air-outlet.

Fresh Air Processing Unit



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 »

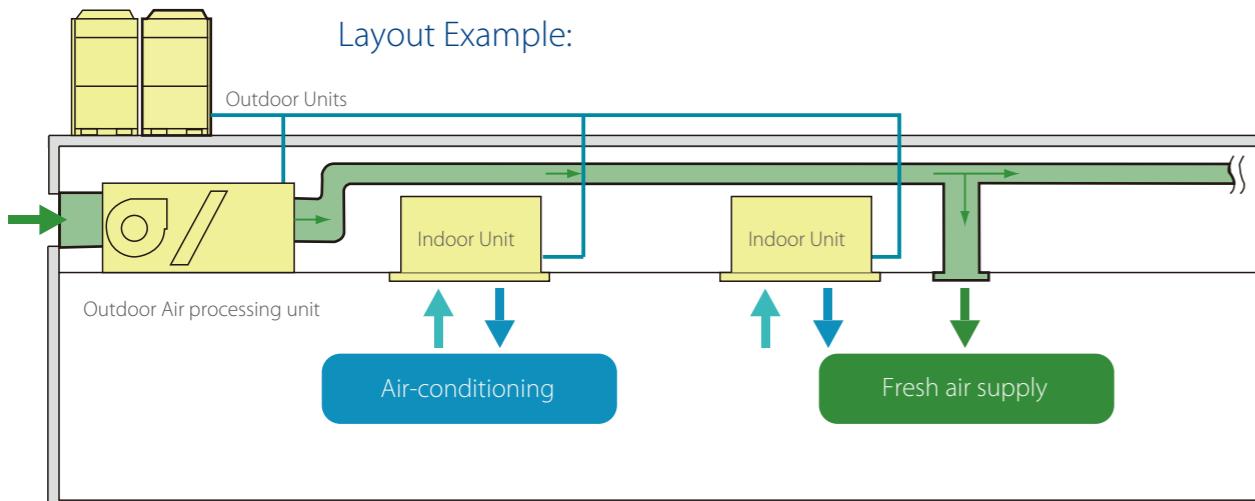
External static pressure can be up to 196Pa(models 125 to 140) and 280Pa(models 200 to 280) for more flexible duct applications.

Healthy and Comfortable »

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

Four speed fan motor(model 125&140).

Innovative air supply technology for excellent room temperature control »



Specification

Model	MDV-D125T1/VN1-FA	MDV-D140T1/VN1-FA	MDV-D200T1/VN1-FA	MDV-D250T1/VN1-FA	MDV-D280T1/VN1-FA
Power supply			1-phase,208-230V,60Hz		
Cooling capacity	kW	12.5	14.0	20.0	25.0
	Btu/h	42600	47800	68200	85300
Heating capacity	kW	10.5	12.0	18.0	20.0
	Btu/h	36000	41000	61400	68200
Power input	Cooling	W	455	455	1060x2
	Heating	W	455	455	1060x2
Airflow rate(H/M/L)	m³/h	2142/1870/1611	2142/1870/1611	2870/2620/2150	3005/2700/2250
	CFM	1261/1101/948	1261/1101/948	1689/1542/1265	1766/1589/1324
External static pressure(Min/Std/Max)	Pa	30/50/196	30/50/196	50/200/280	50/200/280
Sound pressure level(H/M/L)	dB(A)	54/52/50	54/52/50	54/53/51	55/54/52
Net dimension(WxHxD)	mm(in.)	1300x420x690(51-3/16x16x17-32x27-11/64)		1440x505x925(56-11/16x19-7/8x36-27/6)	
Packing dimension(WxHxD)	mm(in.)	1436x450x768(56-17/32x17-23/32x30-1/4)		1509x550x990(59-13/32x21-21/32x38-31/32)	
Net/gross weight	kg(lbs.)	69.5/76(153.2/167.5)		114/124(251/274)	
Piping connections	Liquid/gas pipe	mm(in.)		Φ9.53/Φ15.9/(Φ3/8/Φ5/8)	
	Drain piping	mm(in.)	Φ25(OD 63/64)		Φ32(OD 1-17/64)
Standard controller				Wired controller	

Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
 - Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
 - Sound Level is measured 1.4m(4.59ft.) below the unit.
 - * External static pressure is based on high speed indoor air flow.
- Connection Conditions:**
The following restrictions must be observed in order to maintain the indoor units connection to the same system.
 * When outdoor-air processing units are connected, the total connection capacity must be within 50% to 100% of that of the outdoor units.
 * When outdoor-air processing units and standard indoor units are connected, the total connection capacity of the outdoor-air processing units must not exceed 30% that of the outdoor units.
 * Outdoor-air processing units can be used without indoor units.
 * The fresh air processing unit is not available for V4+R system & 8~26kW side discharge outdoor units.
 4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.



Wireless Remote Controller

RM02
RM05
RM12

Wired Controller

KJR-29B
KJR-90D
KJR-86C
KJR-12B
KJR-120B
KJR-120C
KJR-27B

Centralized Controller & Monitor

CCM30
MD-CCM03
MD-CCM09
KJR-90B
MD-CCM02

Network Control Software & Gateways

IMM Software & M-Interface
Data Converter CCM15
KNX Gateway MD-KNX
BACnet Gateway CCM08
LonWorks Gateway LonGW64
Modbus Gateway CCM-18A

Accessories

Hotel Key Card Interface Module MD-NIM05
Infrared Sensor Controller MD-NIM09
3-Phase Protector
Digital Power Ammeter
Indoor Unit Group Controller-KJR-150A
Remote Alarm Controller KJR-32B
Network Electricity Distribution Module MD-NIM10
AHU Control Box
Midea Outdoor Unit Diagnosis

Wireless Remote Controller



Auto Mode »

Auto mode is specially designed for V4+R system. Can automatically switch between cooling and heating mode based on the temperature difference between the indoor temperature and set temperature.

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.

Address Setting »

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

Follow Me »

With the follow me function, the temperature sensor built-in to the remote controller automatically adjusts temperature and sends it to the indoor unit, making the room more comfortable.

*The Follow Me function is available in RM02.



Features

Model name	RM02	RM05	RM12
Mode selection	●	●	●
Temperature setting	●	●	●
Fan speed control	●	●	●
Keyboard lock	●	●	●
Eco mode	●	●	—
Swing function	●	●	●
Air direction control	●	●	●
24hr timer	●	●	●
Clock display	—	●	●
Address setting	●	●	●
Follow me function	●	—	●
One-key 26°C	●	—	—
Background light	●	●	●

Notes:

1. The ECO function needs to match with the corresponding indoor units.

2. ● : available — : unavailable

Specifications

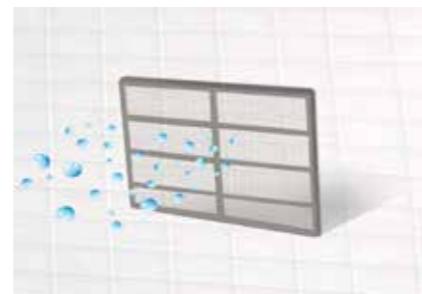
Model	RM02	RM05	RM12
Dimensions (HxWxD)(mm)	150x60x15	150x65x20	170x48x20
Batteries			1.5V(LR03 AAA)x2

Wired Controller



Clean Filter Reminder »

The wired controller records the total running time of the indoor unit. When the accumulated running time reaches the pre-set value, the system will remind users to clean the indoor unit's filter. Cleaning the filter regularly keep indoor air fresh, clean and good for your health.



Silent Mode »

In cooling, heating and auto mode, operating silent mode can lower running noise by setting the fan speed to low for a quieter environment.

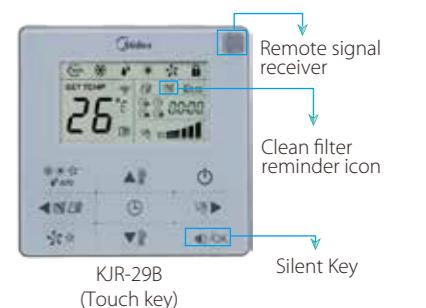


Keyboard Locking »

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

Remote Signal Receiving Function »

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



Address Setting »

KJR-29, KJR-12B and KJR-90D have an address setting function. Service personnel can set the address for the indoor unit for easy installation and future maintenance.



Follow Me »

The temperature sensor built-in to the wired controller senses the surrounding temperature and adjusts the room temperature for perfect comfort.

*The Follow Me function is available in KJR-29B and KJR-90D.



One-key 26°C »

KJR-86C has a one-key 26°C function. For saving energy and remaining comfortable, 26°C is the ideal temperature.

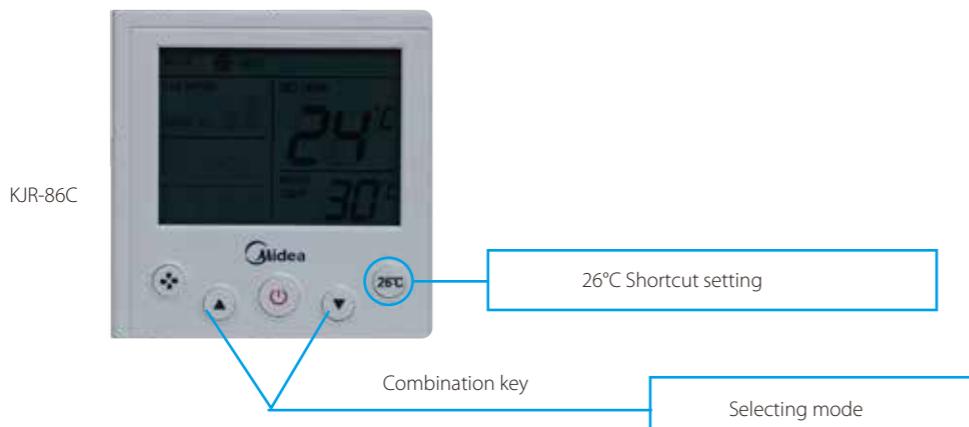


User Friendly Design >>

KJR-86C is a hidden mode controller specially designed for hotels, hospitals, schools and other similar types of buildings.

Hidden mode key controller:

Press the temperature buttons "▲" and "▼" simultaneously for 3 seconds to select the operation mode: COOL or HEAT.



User Friendly Installation >>

The background light function makes it easy to use in the dark.

As small as an electric switch, the installation effect more attractive.



Auto Restart Function >>

If the power fails, the system records running parameters such as:

ON/OFF state, mode, Fan speed, Temperature, Swing and Locking status.

When powered on again, the system automatically checks the status before the failure.

KJR-12B



Built-in Timer >>

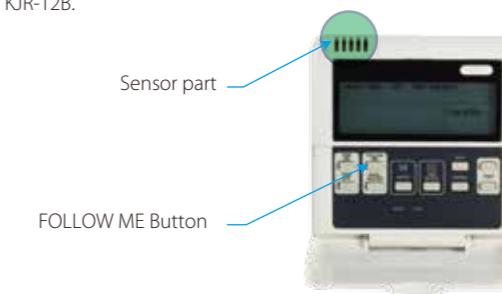
The built-in daily timer offers automatically starts and stops the system at set times based on user needs.



Follow Me >>

The FOLLOW ME function enables the wired controller to detect the air temperature at the user's height instead of the ceiling or floor for accurate temperature configuration.

*The Follow Me function is available in KJR-12B.



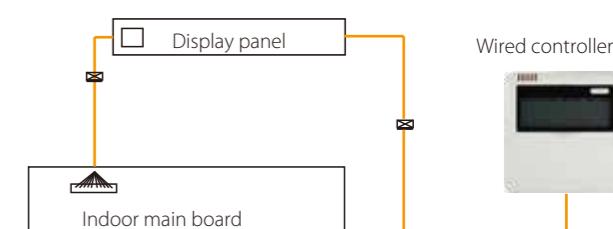
Addresses Setting >>

The address setting function is coupled with easy installation and simple future maintenance. Service personnel can set the address for the indoor unit using, KJR-29, KJR-12B and KJR-90D.



Easy Connection >>

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



V4 Plus R Wired Controller



Auto Mode »

Auto mode is specially designed for the V4 plus R series

In auto mode, the V4 plus R system can automatically switch between COOL or HEAT mode according to the temperature difference between Tf (indoor temperature) and Ts (setting temperature).

* KJR-120B is compatible with the 2-pipe system. In auto mode, it only can run in cooling mode.

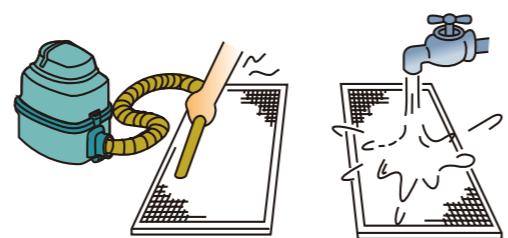
Error Display »

If a malfunction occurs, the temperature setting display area will show the error code.

The error status can be checked easily on the indoor unit's wired controller.

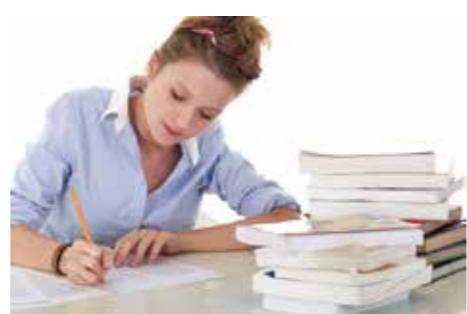
Filter Cleaning Reminder »

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 you to clean the air filter. Cleaning the filter regularly keeps the indoor air fresh and clean, and is good for your health.



Silent Mode »

In cooling, heating, and auto mode, silent mode reduces the running noise by setting the fan speed to low so you can enjoy peace and quiet while remaining comfortable.



Weekly Schedule Timer Wired Controller



Simple Design »

Weekly schedule wired controller can query the indoor temperature and the set parameters of the weekly schedule. It can show the error codes and running state of the indoor unit. The LCD backlight enables users to operate the device in the dark.

Weekly Schedule Timer »

The weekly schedule function allows users to set up to four scheduled periods per day for frequent adjustments.

The Schedule feature allows you to program device behavior. If a device must follow a certain schedule, you can program the device to operate only at the scheduled times. Scheduled devices do not activate unless programmed to do so. They are centrally managed, significantly reducing energy consumption.

Delay Function »

This function is specifically designed for people who work overtime. Pressing the Delay button postpones system shutdown by 1 or 2 hours.

Error Display »

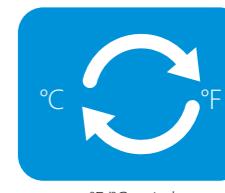
If a malfunction occurs, the temperature setting display area will show the error code.

The error status can be checked easily on the indoor unit's wired controller.



°F/°C Switch »

Press the left-right and up-down buttons simultaneously for three seconds to switch between °F and °C.



°F/°C switch

HRV Wired Controller



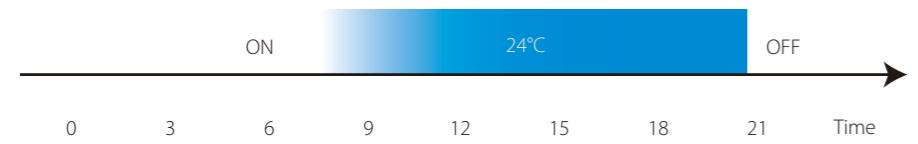
KJR-27B is individually designed for HRV—Heat Recovery Ventilator. The HRV can work in the following modes: exhaust, air supply, bypass, heat exchange, and auto.

Built-in Timer »

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

Setup screen example

Set to Wednesday: 8:00 to 20:00



Specifications

Model	KJR-29B	KJR-90C	KJR-86C	KJR-12B	KJR-27B	KJR-120B	KJR-120C
Dimensions (HxWxD)(mm)	120×120×20	86×86×16.5	86×86×18	120×120×15	120×120×15	120×120×20	120×120×20
Power (V)	DC 5V (Supplied by indoor unit)					DC 12V by IDU	

Benefits

Model name	KJR-12B	KJR-29B	KJR-90D	KJR-86C	KJR-120B	KJR-120C
Fan speed control	●	●	●	●	●	●
Mode change	●	●	●	●	●	●
Auto mode for V4+R	—	—	—	—	●	—
Eco mode	●	—	●	—	—	—
Keyboard lock	●	●	●	—	●	●
Swing function	●	●	●	—	●	●
Background-light	●	●	●	●	●	●
24h timer	●	●	●	—	●	●
Clock display	—	●	●	—	●	●
Address setting	●	●	●	—	—	—
Receiving remote signal	—	●	●	—	—	—
Clean filter reminder	—	●	●	—	●	—
Follow me function	●	●	●	—	—	—
Silent mode	—	●	●	●	●	—
26°C shortcut setting	—	—	—	●	—	—
Display indoor temp.	—	—	—	●	—	—
°F/°C initial setting	—	●	●	—	●	●
Weekly schedule timer	—	—	—	—	—	●
Delay function	—	—	—	—	—	●
Auto restart	●	●	●	●	●	●
Error code display	—	—	—	—	●	●

Notes:

1. ECO function needs to match with the corresponding indoor units.

2. ● : available — : unavailable

Centralized Controller & Monitor



Indoor Centralized Controller



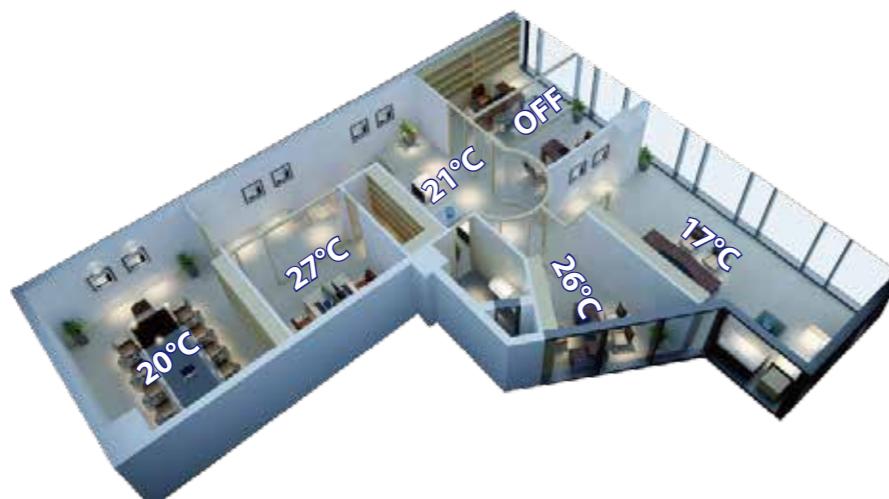
CCM30
MD-CCM03
MD-CCM09

- Swing
- Heat mode
- Cool mode
- Fan mode
- 24h Timer
- Keyboard lock
- Remote controller lock
- Cooling lock
- Heating lock
- Dry mode
- Weekly schedule
- Clean filter reminder
- Network access

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.

User can group control or individual control and the set temperature of each unit can also different.



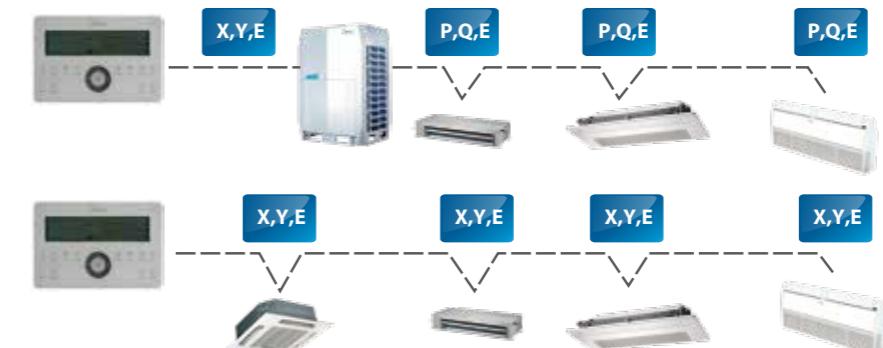
Three Lock Modes »

The centralized controller is a better way to manage indoor units. Users can choose to lock the wireless controller, running mode, or the centralized controller's keyboard.



Wiring Example »

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



- *1. If it connects to XYE ports of master ODU, the ODU must be set to auto addressing mode.
- 2. Some products can only be connected with MD-CCM09 from indoor side XYE ports.

Application Example »

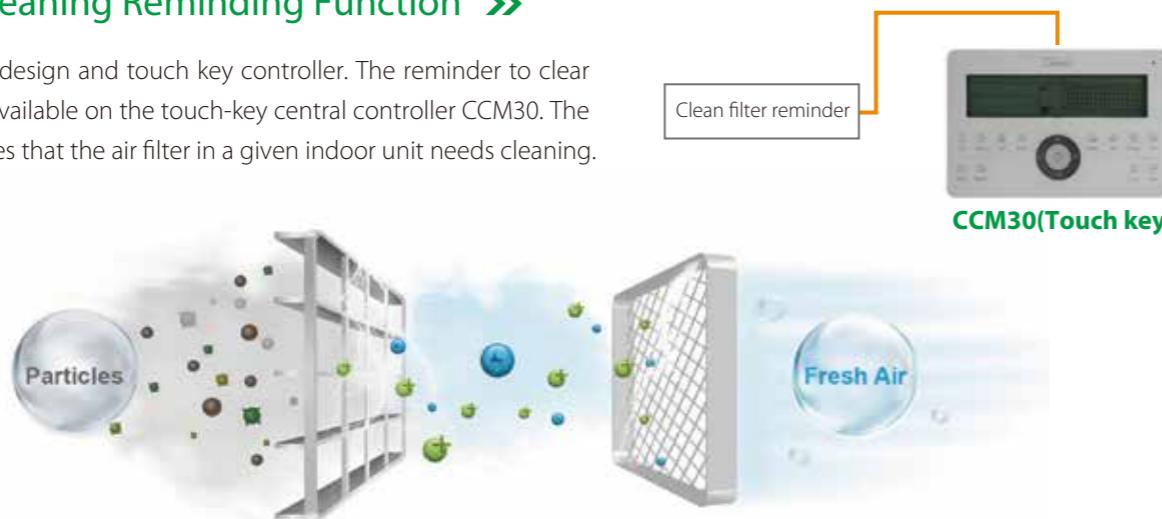
Ensure the address is not repeated. Units can be from different systems, with up to 64 indoor units. This greatly reduces system limitations.

- *1. For the 2-pipe system, the running mode should be in the same mode.
- 2. For 3-pipe system, the running mode can be set as required.



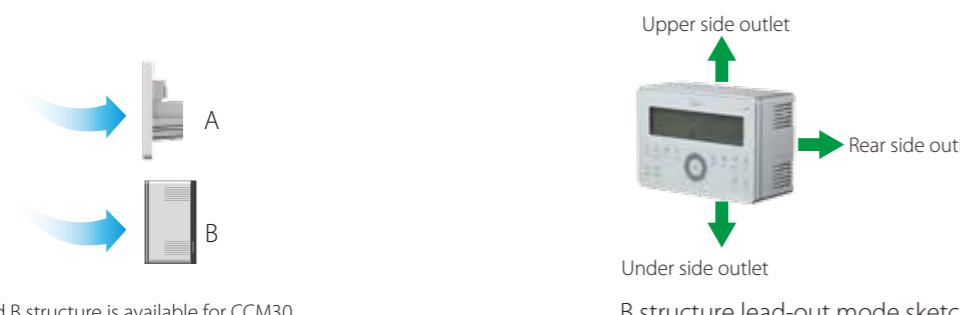
Air Filter Cleaning Reminding Function »

CCM30 is a new design and touch key controller. The reminder to clear the filter 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.



Easy Installation »

The centralized controller offers two installation modes. Unlike the B structure, the A structure must be embedded into the wall. Both are easy to operate.



*A and B structure is available for CCM30

Stylish Design »

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



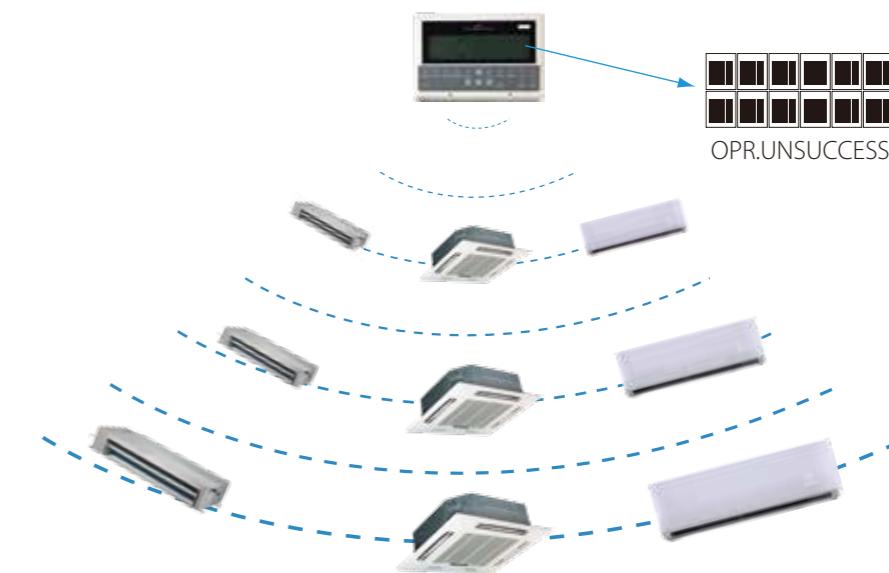
Weekly Schedule for MD-CCM09 »

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

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

Single/Unified Control Mode »

The control object can either be 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 »

Displays indoor units' working status and error codes, so users can easily identify faults by checking the error code table in the user's manual before contacting a service engineer.

Error code or protection code		Connecting status matrix																	
Current	Set. temp	Mode	Auto	Query	Set	Opr. unsucces													
88# Online ON OFF Error	88°C T2A T2B T3 Period Room. temp			00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	88:80 ON OFF			16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
				32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
				48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
				Weekly Timer Off															

Benefits

Model			
Max. number of indoor units	64	64	64
Group control	●	●	●
Individual control	●	●	●
Fan speed control	●	●	●
Mode selection	●	●	●
Mode lock	●	●	●
Remote controller lock	●	●	●
Keyboard lock	●	●	●
Weekly schedule timer	—	—	●
24h timer	●	●	●
Error check	●	●	●
Emergency start	●	●	●
Emergency stop	●	●	●
Background light	●	●	●
Swing function	●	●	●
Air filter cleaning reminder	●	—	—
Parameter query	●	●	●
BMS access	●	●	—

Notes:

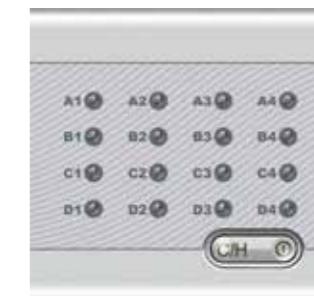
● : available — : unavailable

Specifications

Model	MD-CCM03	CCM30	MD-CCM09
Dimensions (H*W*D)(mm)	179x119x74	180x122x78 and 180x122x68	179x119x74
Power (V)	198-242V(50/60Hz)		

Unified On/Off Controller

Stylish unified controller design with a clear panel.
Can control single or group indoor units.



KJR-90B

Unified Control »

KJR-90B offers on/off and heating/cooling functions 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.



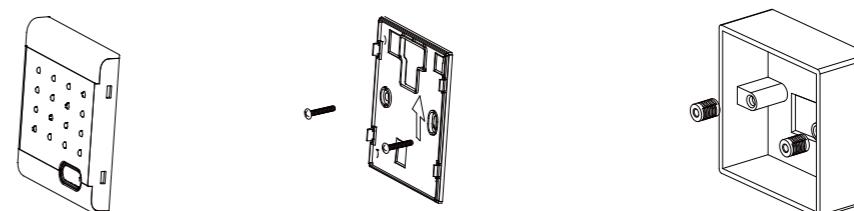
Light Indicator »

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

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

Easy Installation »

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



Specifications

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

Outdoor Centralized Monitor

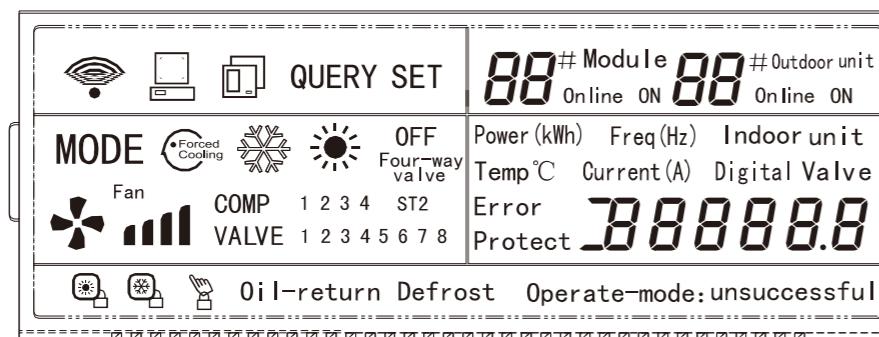
MD-CCM02



- Query parameters
- Power consumption
- Protection/ Error codes
- Communication by ODU
- Communication by PC
- Forced Cooling

ODU Parameters Display »

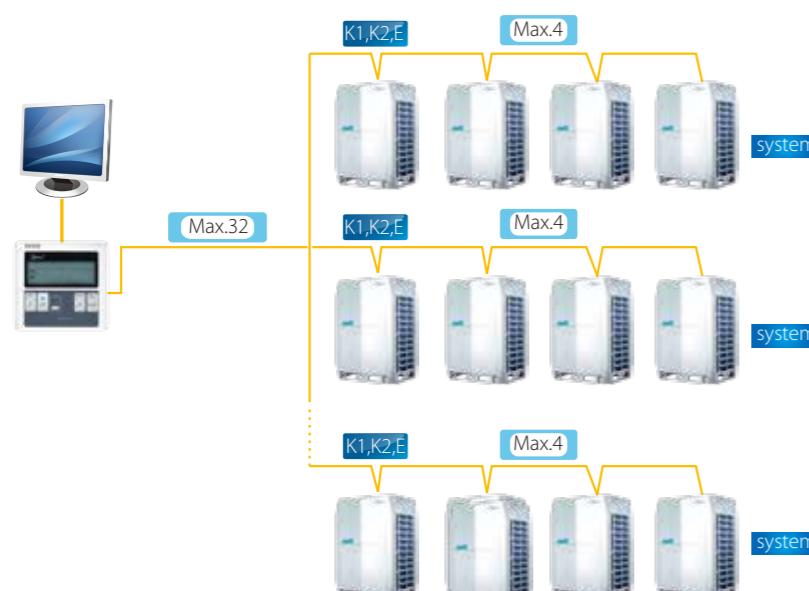
MD-CCM02 enables users to easily check outdoor units' running status, including frequency, temperature, current, pressure, protection codes and error codes.



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.



Specifications

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

Network Control Software & Gateways



Network Control Software & Gateways



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



IMM software

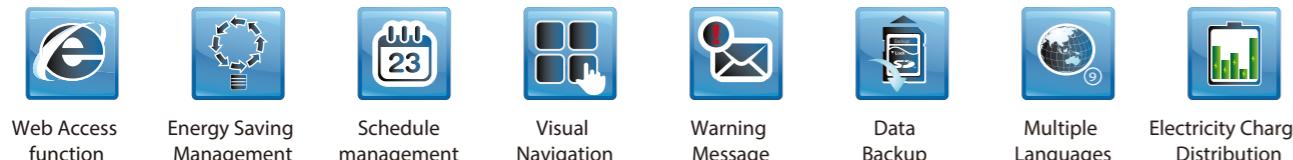


M-interface Gateway

Intelligent Manager of Midea is designed specifically to control VRF systems. Based on a centralized format, it controls and monitors all the system's functions. It can be used as a flexible multi-purpose system and applied to meet various requirements according to the scale, purpose, and control method of each building.

Key Features »

- ❖ Up to 4 M-interface gateways, 64 refrigerant systems, 1,024 indoor units, and 256 outdoor units can be controlled by one PC.
- ❖ User friendly operation
- ❖ Web access for M-interface gateway
- ❖ Central building monitoring and control
- ❖ Energy saving management
- ❖ Zone management
- ❖ Warning message
- ❖ *SMS modem(optional)
- ❖ Electricity charge distribution
- ❖ Annual schedule management
- ❖ Low-load operation indicator
- ❖ Generate operational history reports (daily, weekly)
- ❖ Fault display & Warning message
- ❖ Clean filter reminder
- ❖ Emergency stop and Alarm signal output
- ❖ Multiple languages



Web Access function

Energy Saving Management

Schedule management

Visual Navigation

Warning Message

Data Backup

Multiple Languages

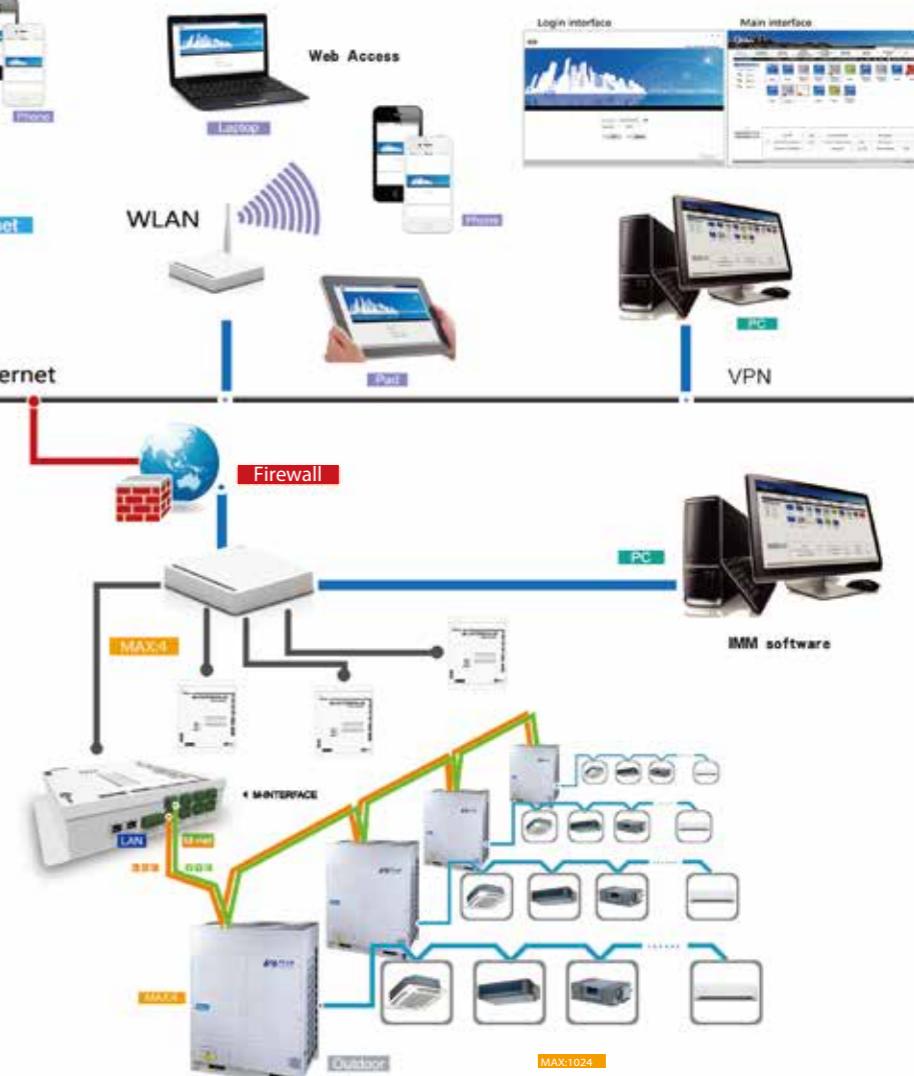
Electricity Charge Distribution

Network Control Application »

WEB ACCESS



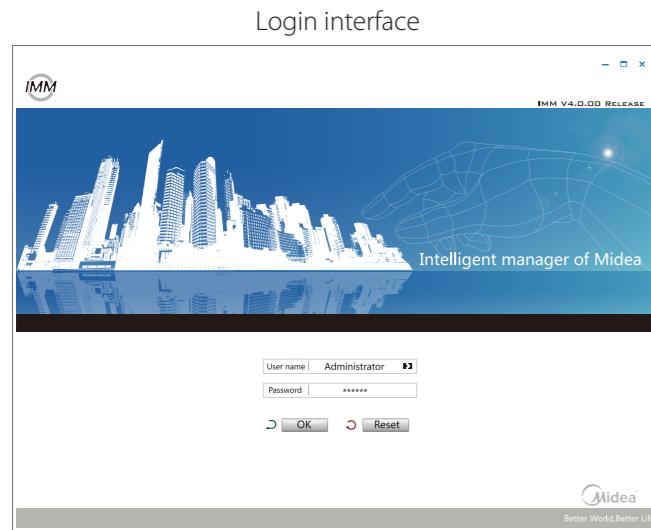
LOCAL



- ❖ 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.

Simple Operation & Management ➤

- ❖ Click & Operate, a user-friendly interface allows non-experts to easily run the building management system.
- ❖ IMM offers a massive, flexible, and highly efficient centralized management program.



Web Access Function ➤

With the web access function, a PC, laptop or a smart phone can be used as a remote controller. The function supports up to four users online at the same time. Connects with LAN and WAN so you can monitor and manage the A/C device remotely.

*WAN access needs to set up the VPN.



Visual Navigation ➤

Allows the floor plan to be imported. Dragging the A/C device to anywhere can locate the A/C quickly , and you can view it to specify the physical location of the A/C.

With the visual navigation function, the layout of A/C is showed on the floor plan directly and the running solution is clear.



Schedule Management ➤

Automatically performs facility start/stop control, switches the operating mode, sets temperatures and enables/disables the remote control according to the present time schedule.

Users can set up day/week task for running periodically.

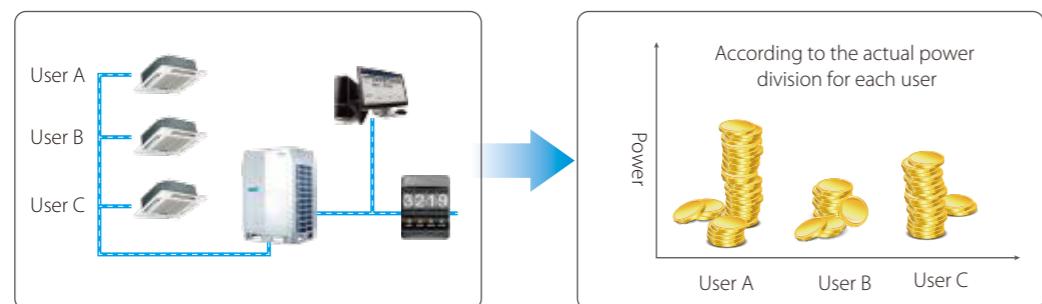
Users can choose indoor units and assign task times as required.

Except for the conventional setup, the system offers all kinds of energy conservation options.



Electricity Charge Distribution (Patented) »

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



Energy consumption can be divided according to the running time, set temp, return air temp, and refrigerant flow.

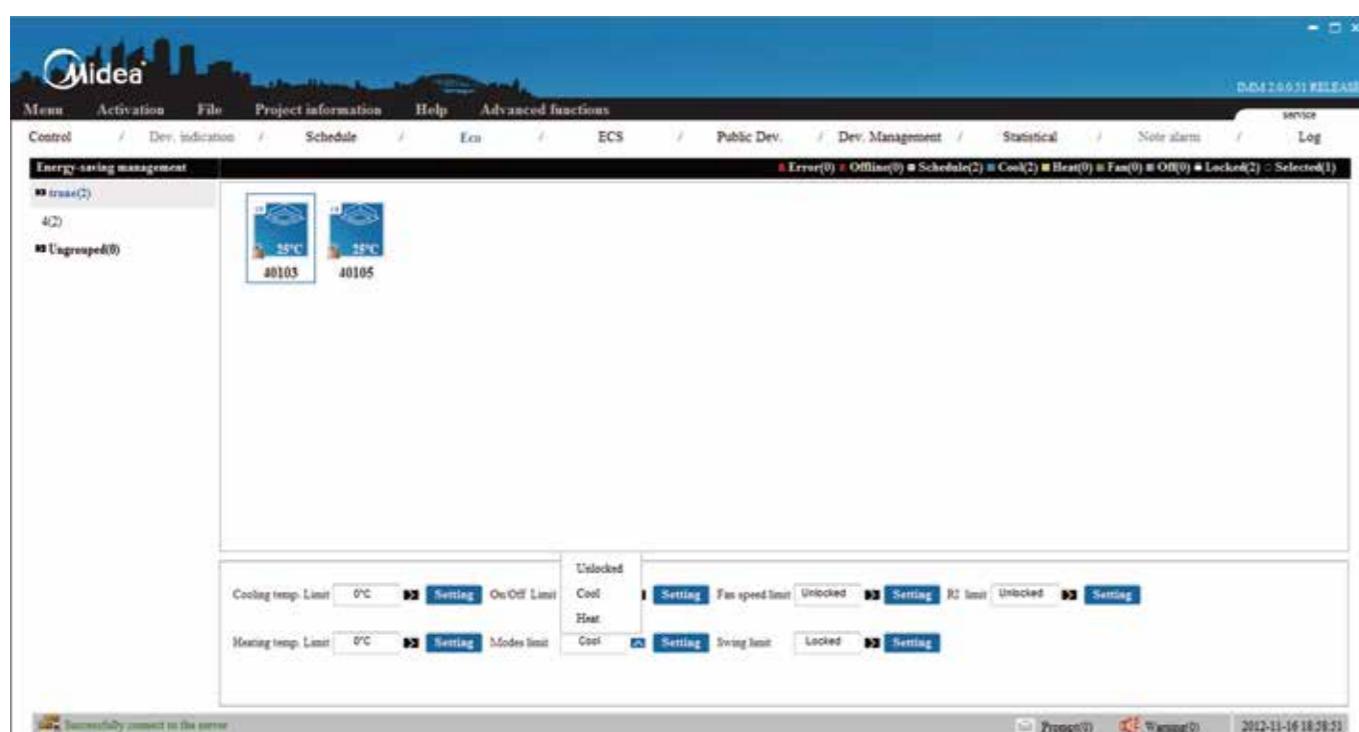
Energy Saving Management »

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.

User can set a limit on any running unit, any parameter, such as cooling temp., heating temp., fan speed, operation mode, and so on.

* 1. Meet with the <Public building energy efficiency management regulations>.

2. Matches the corresponding indoor units.



Automatic & Manual Topology »

With automatic topology mode and manual topology mode.



Can topologize automatically between the indoor and outdoor units in the refrigerant system.
One M-interface gateway can support, up to 4 refrigerant systems, 256 indoor units and 16 outdoor units.



Manually set the topologize method between the indoor and outdoor units in the refrigerant system.
One M-interface gateway can support, up to 16 refrigerant systems, 256 indoor units and 64 outdoor units.

Warning Message »

The system can receive error messages from air conditioning units in more than one building on public phone lines. If a particular factor influences normal operations, the system will send a message to technicians as an early warning.

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

Data Management »

Monitors the operating information of individual indoor units to distribute the power consumption of outdoor units.

Stores operation data on multiple systems and reports it in excel format for visual management.

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

Zone Management »

Easy to control and manage air conditioners.

Easy to manage the energy charges of public devices.

Data Backup »

Double data backup stored on the M-interface and IMM database.

The M-interface gateway automatically backs up power data for 1 or 2 months if a system failure occurs.

Examples: if there is a PC power failure or a system crash, the M-interface will automatically backup the data to the gateway. IMM software also stores running data on the software database.

Colorful Language Obtained »

Supports multiple languages. Customers can select their required language.

9 different languages:

English

French

Italian

Russian

German

Spanish

Simple Chinese

Polish

Korean

Data Converter

The CCM15 Data Converter allows anytime, anywhere control of up to 64 indoor units. Midea's VRF cloud service makes possible remote location access to CCM15 Data Converters using a desktop/laptop, tablet computer or smart phone.

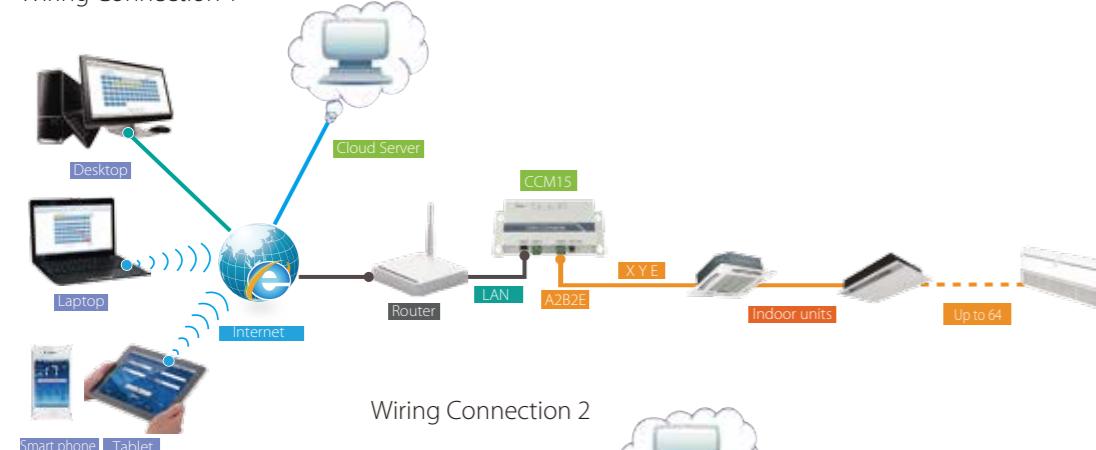
CCM15



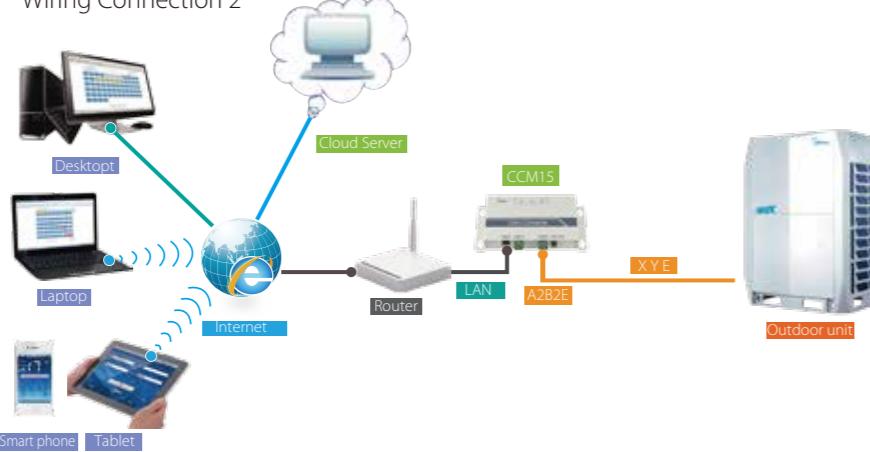
Flexibility »

The CCM15 Data Converter can be connected directly to a network of indoor/outdoor units.

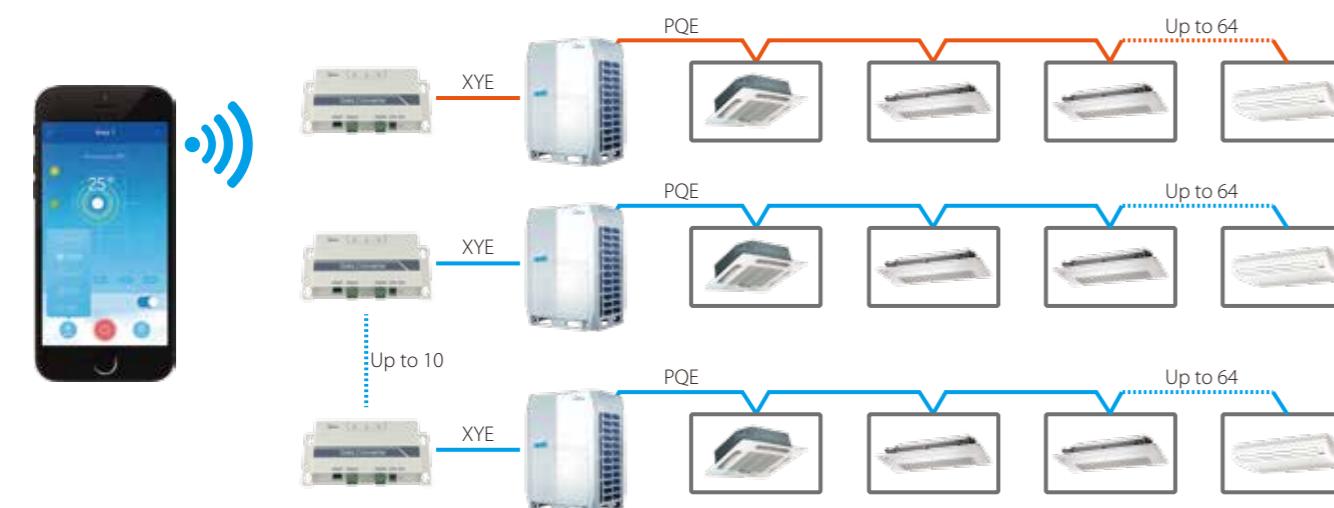
Wiring Connection 1



Wiring Connection 2



Up to 64 indoor units can be connected in each Data Converter and up to 10 Data Converters can be accessed by each account.



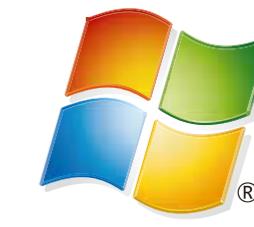
Powerful Functionality »



Note: some functions of CCM15 are not available for mini VRF.

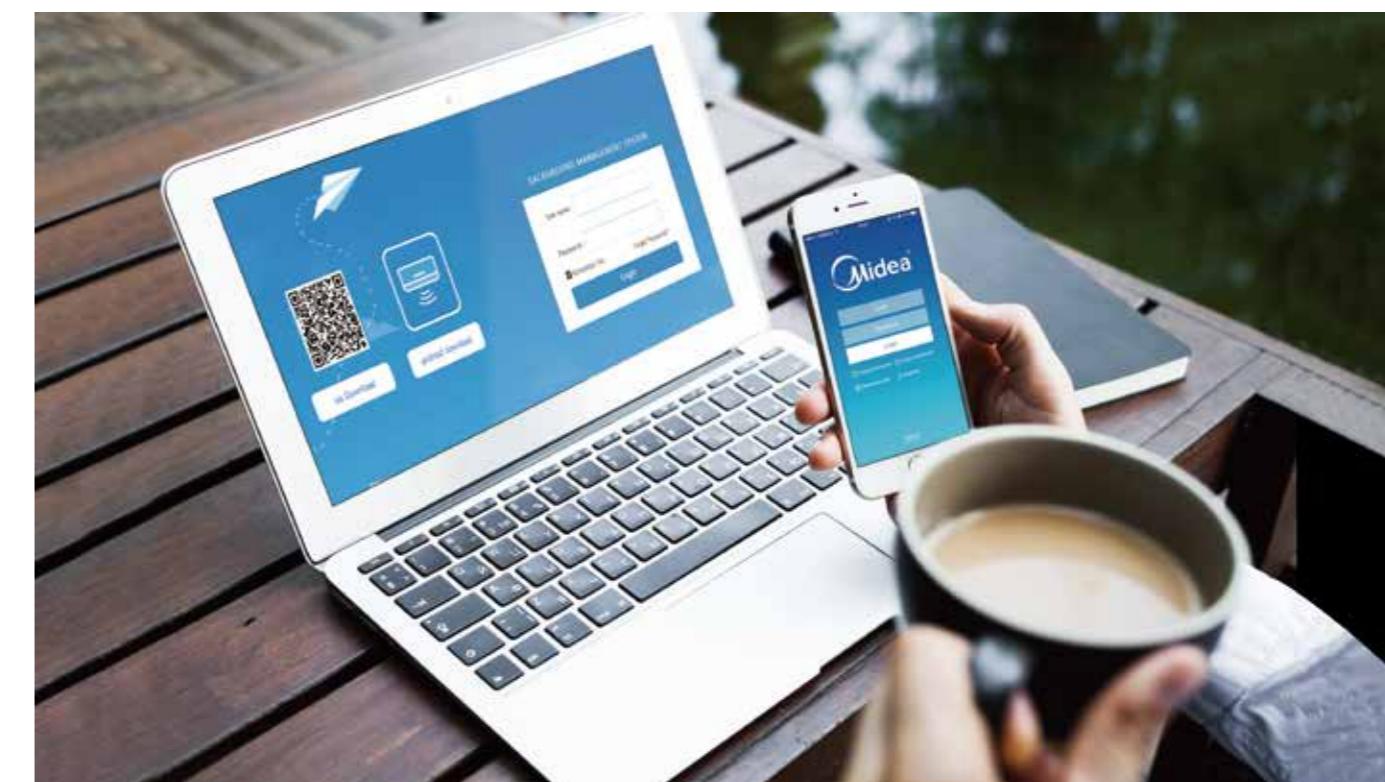
High Compatibility »

Compatible with a variety of operating systems.



User Friendly Interface »

Clear, stylish interface designed by leading industrial designers.



Clear Icons »

Clear, color-coded icons allow unit operating states to be viewed at a glance.



Easy Configuration »

User groups can be joined simply by scanning a QR code.



Convenient Operation »

Drag the position of the floating bubbles to change temperature and fan speed.



Anytime Control »

Remote access to CCM15 functionality allows anytime, anywhere control.



Multiple Language Options »

Support multiple languages so that users of different languages can operate easily.



Specifications »

Model	CCM15
Dimensions (HxWxD) (mm)	187x115x28
Power supply	220V, 50/60Hz



What is the BMS? »

The Building Management System (BMS) (or Building Automation System (BAS)) is a computer-based control system installed in buildings. The BMS monitors the mechanical and electrical equipment such as ventilation, lighting, power, fire, and security.

There are four types of common BMS protocols: BACnet, LonWorks, Modbus and KNX.



MD-KNX

KNX Gateway

Specially designed to allow monitoring and bidirectional control on the parameters and functionality of the Midea air conditioner from KNX installations

What Is The KNX? »

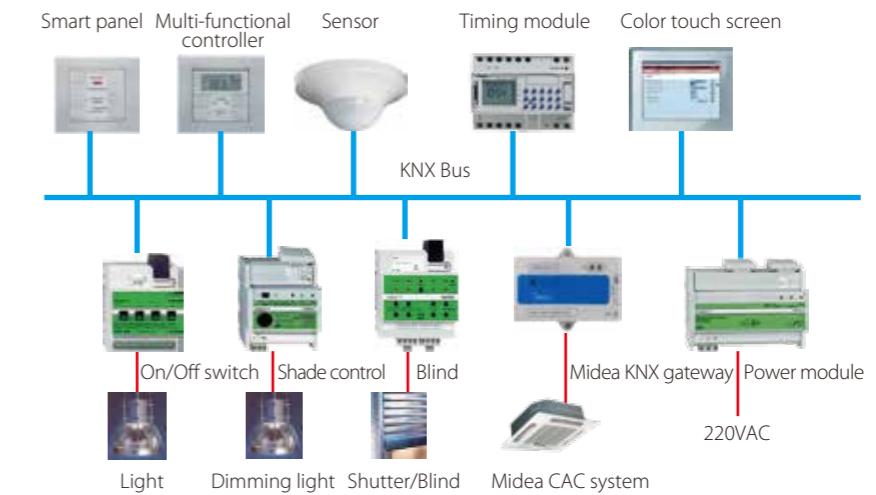
KNX (Konnex) starts from 1999. KNX is the only global standard for housing and building control, and has been adopted by 70% of Europe's smart home market.

Key Features »

- ❖ Compatible with all Midea VRF products
- ❖ External power is not required and direct connect to the KNX EIB bus
- ❖ Fully KNX interoperable, configuration from ETS
- ❖ Multiple objects for control (different types: bit, byte, characters...)
- ❖ Easy installation and directly connects with one indoor unit through the RS485 bus
- ❖ Directly connects to the KNX bus
- ❖ KNX certification

Widely Applied »

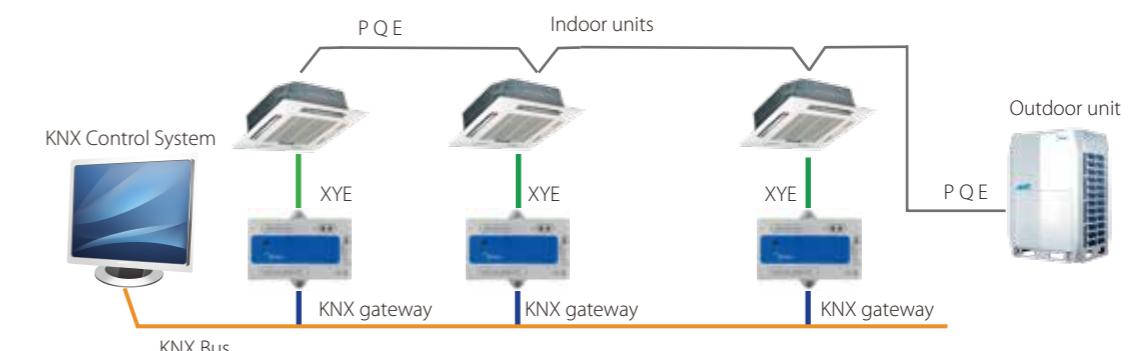
Midea KNX protocol gateway can be combined with hundreds of KNX certified products labeled with the KNX trademark in the same working system.



Electrical Wiring »

One gateway only can be connected to one indoor unit.

Can only connect to the XYE port of the indoor unit.





MD-CCM08

BACnet® Gateway

Integrated Control System for Seamless Connection between VRF and BMS Systems

What is the BACnet? »

BACnet is a communications protocol for building automated control networks. BACnet was designed to allow building automation and control systems for applications to communicate; e.g., heating, ventilation, air conditioning control, lighting control, access control, and fire detection systems and their associated equipment.

Key Features »

- ❖ Precise and efficient monitoring and control of the Midea VRF system
- ❖ Connect up to 256 indoor units or 128 outdoor units to the BMS
- ❖ Choose whether or not to connect to the BMS
- ❖ Built-in WEB function
- ❖ BTL certification

● Controlling

- Operation mode setting
- Temperature setting
- Fan speed setting
- Swing running for web
- Lock remote controller

● Monitoring

- Operation mode status report
- Set temperature status report
- Fan speed status report
- RC locking status
- Online quantity
- Timer status
- Error status
- Room temperature display

*For more information, refer to the product object table.

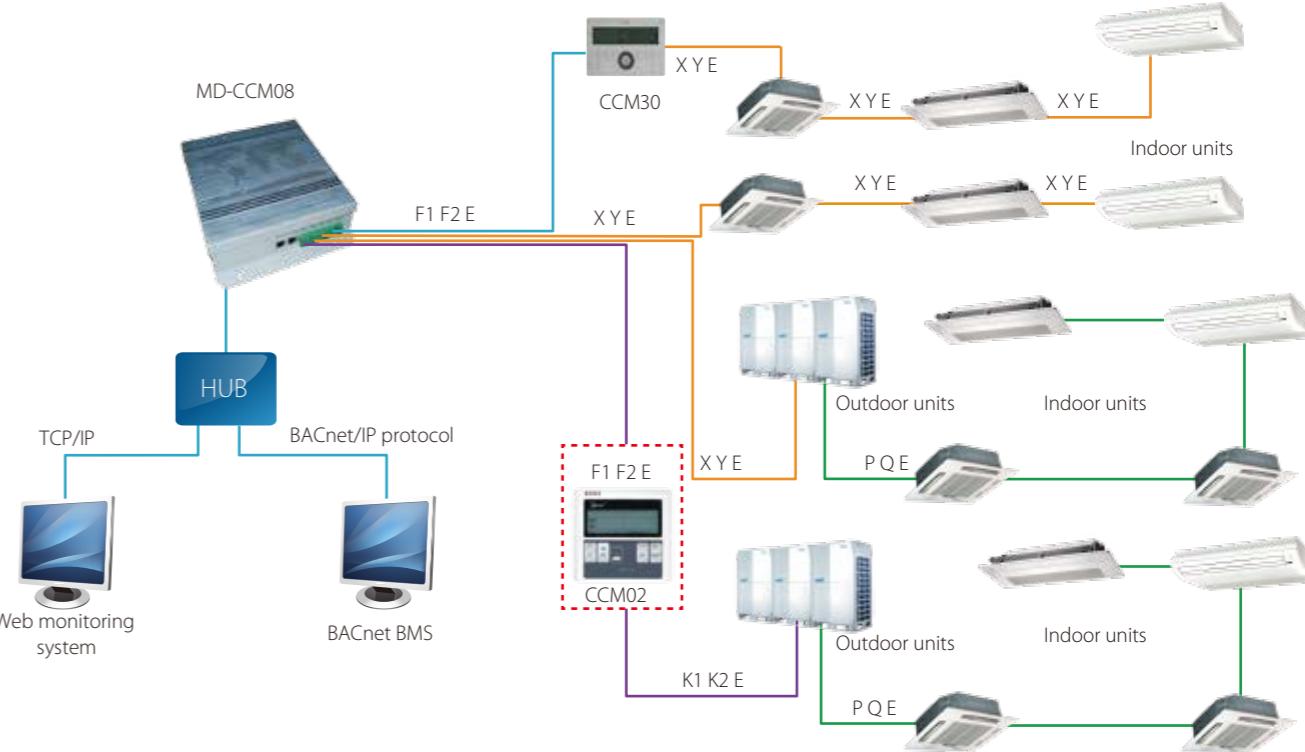
Monitoring Units Online »

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

Quick & Easy Installation »

Each port can connect to IDU/ODU XYE ports or outdoor units' K1K2E ports.

Each port can also connect to one CCM03 or one CCM02 through F1F2E ports.



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

Wide Compatibility »

CCM08 adapts very well to the BMS

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

Specifications

Model	MD-CCM08
Power supply	AC 220V~50/60Hz
Dimensions (HxWxD) (mm)	319x251x61



LonWorks® Gateway

Open network integration of VRF Monitoring and control functions into LonWorks networks

LonGW64

What is the LonWorks? »

LonWorks (local operating network) is a networking platform specifically created to address the needs of control applications. The platform is built on a protocol created by Echelon Corporation for networking devices over media such as twisted pairs, power lines, fiber optics, and RF.

LonWorks networks are recognized worldwide as the de facto standard within the building control industry. LonWorks is used to automate various functions within buildings; e.g., energy management, fire / life / safety lighting and HVAC.

Key Features »

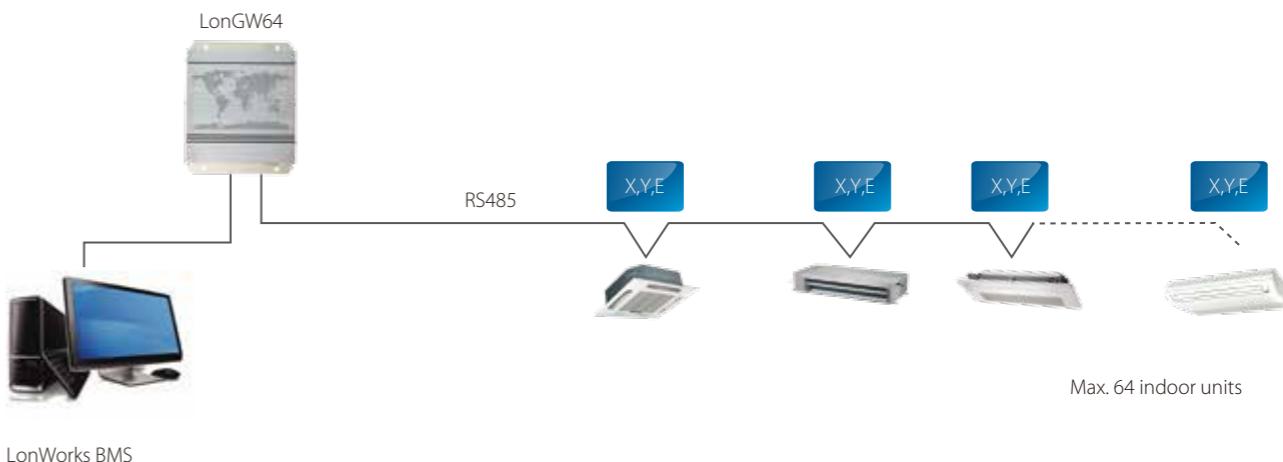
- ❖ Connect to use LonWorks® protocol and Midea air conditioner protocol
- ❖ Compliance with LonMark protocol enables the management and control of A/C system
- ❖ Control various types of equipment from the customer's own PC
- ❖ Connect up to 64 indoor units to the BMS
- ❖ Option for large projects
- ❖ Easy and fast installation

● Controlling
- On/Off command
- Operation mode setting
- Temperature setting
- Fan speed setting

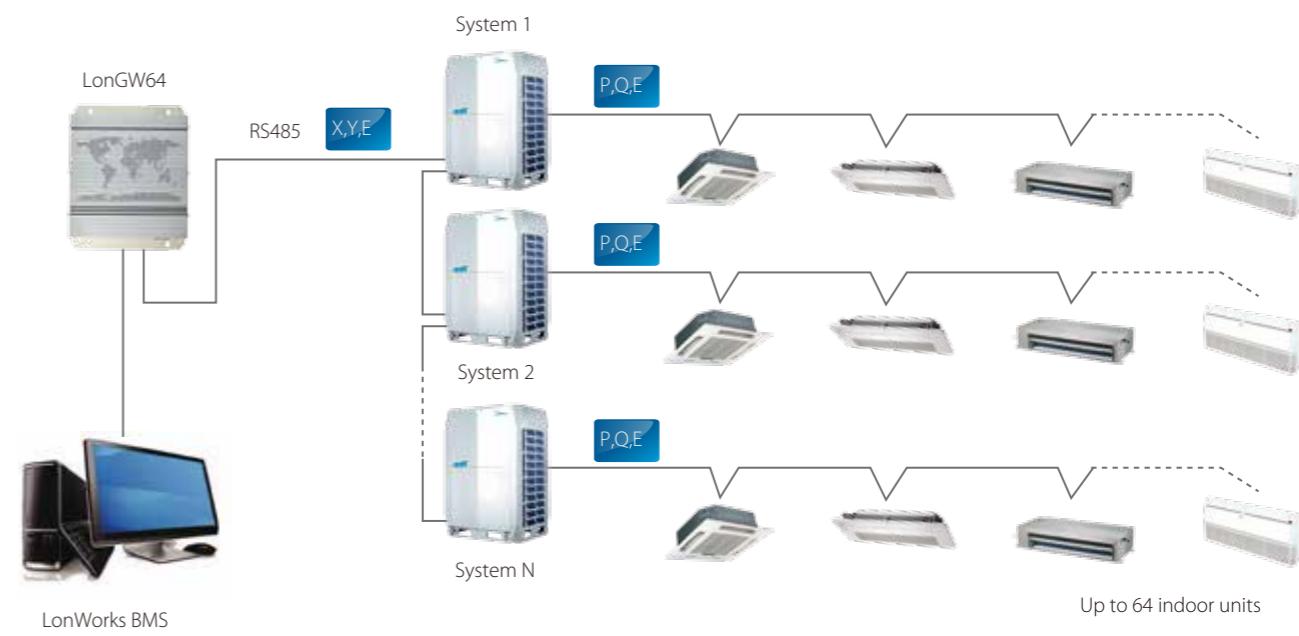
● Monitoring
- Operation mode status report
- Set temperature status report
- Fan speed status report
- Online/offline status
- Online quantity
- Error status
- Room temperature display

Network Example »

- ❖ Connection method 1: suitable for all air conditioning systems and can connect up to 64 indoor units.



- ❖ Connection method 2: only suitable for the V4 plus system and can connect up to 64 indoor units.



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

Specifications

Model	LonGW64/E
Power supply	AC 220V~50/60Hz
Dimensions (HxWxD) (mm)	319×251×61



Modbus® Gateway

Integrated Control System for Seamless Connection between VRF and BMS Systems

What is the Modbus? »

Modbus is a serial communications protocol originally published by Modicon (now Schneider Electric) in 1979 for use with its programmable logic controllers (PLCs). Modbus is often used to connect a supervisory computer with a remote terminal unit (RTU) in supervisory control and data acquisition (SCADA) systems.

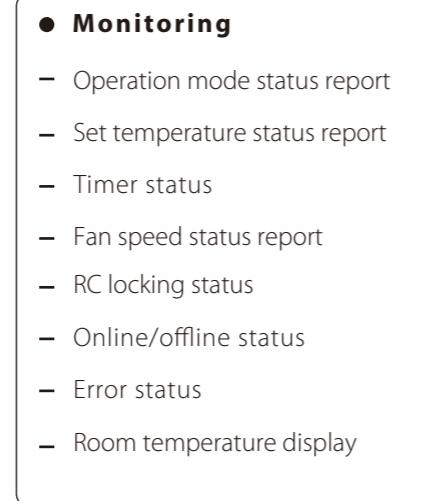
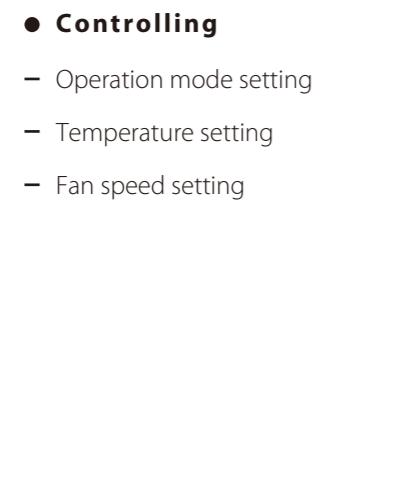
Key Features »

- ❖ Supports Modbus protocol networks
- ❖ Bridges the Midea central A/C system to the BMS
- ❖ Built-in WEB server function
- ❖ Connect to the BMS system through TCP/IP or RTU
- ❖ Two models: CCM-18A/N & CCM-18A/N-U

Model CCM-18A/N-U can only connect up to 16 indoor units.

Model CCM-18A/N can connect up to 64 indoor units and 4 outdoor units.

*The four outdoor units must be in the same system



*For more information, refer to the Modbus product mapping table.

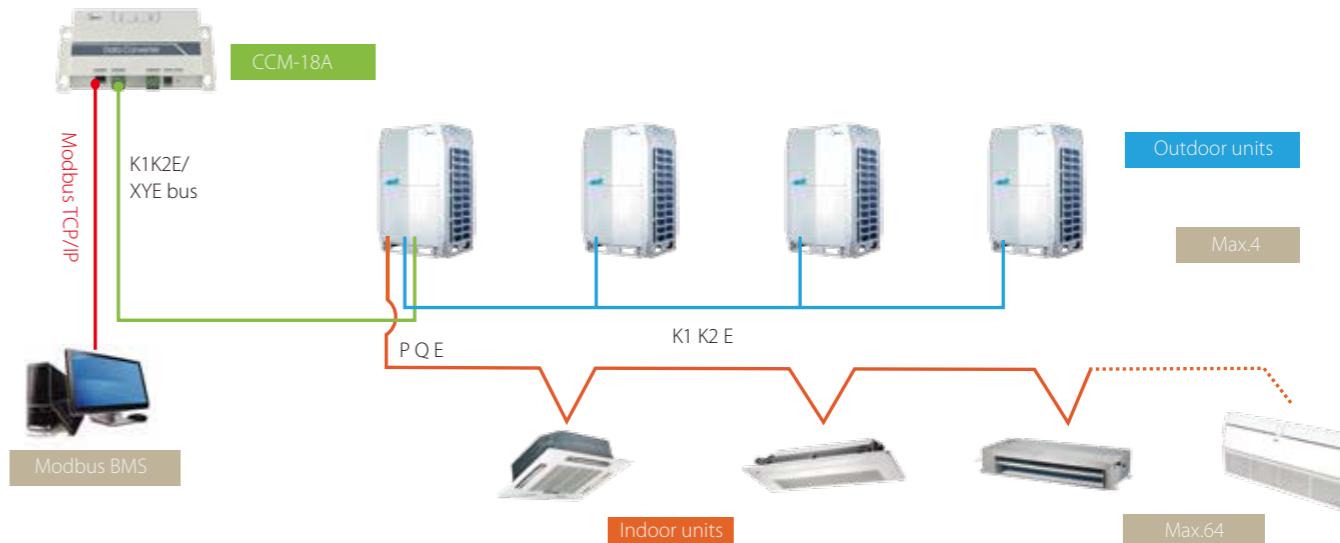
Config A/C System Via Web »

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

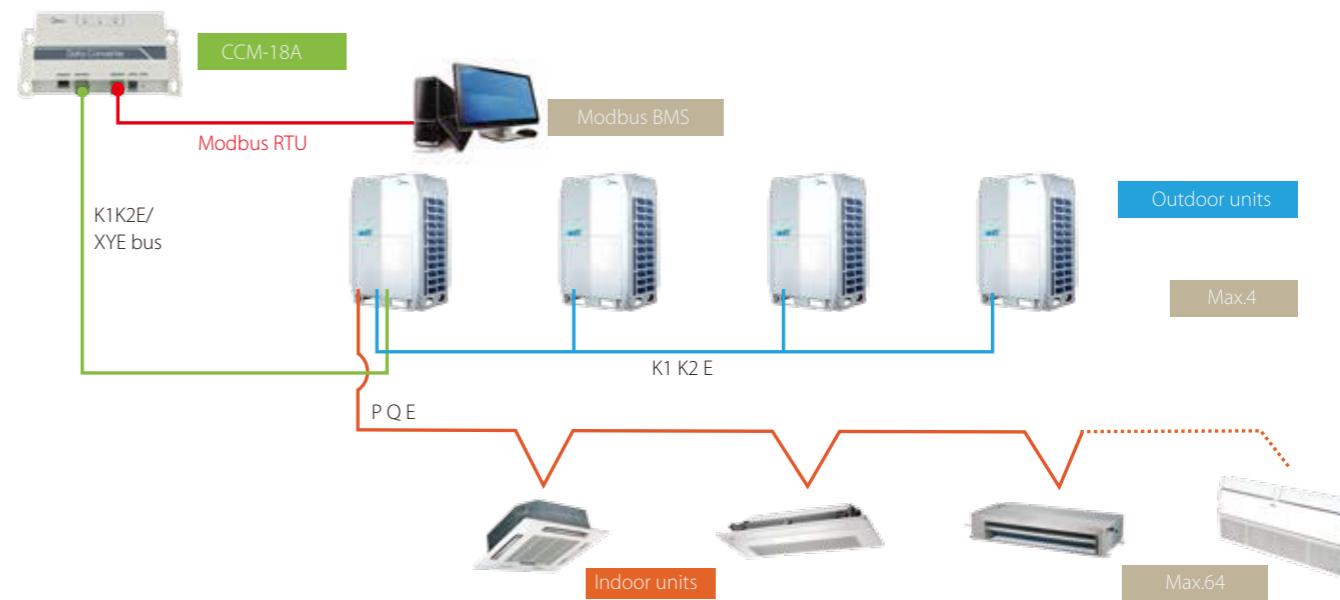


Network Example »

1) TCP connection method



2) RTU connection method



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

2. XYE and K1K2E must be connected hand by hand.

Specifications

Model	CCM-18A
Dimensions (HxWxD) (mm)	187x115x28
Power supply	AC 220V~50/60Hz

Accessories

Hotel Key Card Interface Module



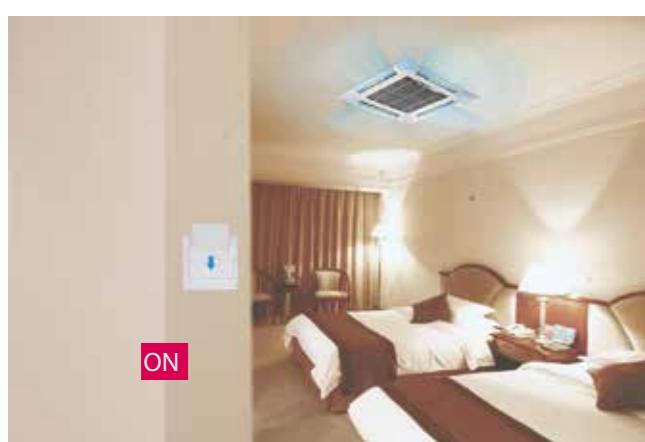
Key Features »

- MD-NIM05 is specially designed for hotel guest rooms, restaurants and so on. It works with a hotel card system
- Simple, compact, and easy to operate; suitable for hotel rooms
- Key card cooperates with wired controller to control the A/C
- Eliminates the need for high voltage power, making the device safe and reliable
- Includes a build-in auto-restart function
- Remote controller or wired controller can control indoor units
- Two types are available: MD-NIM05/E and MD-NIM05B/E

Application Example »

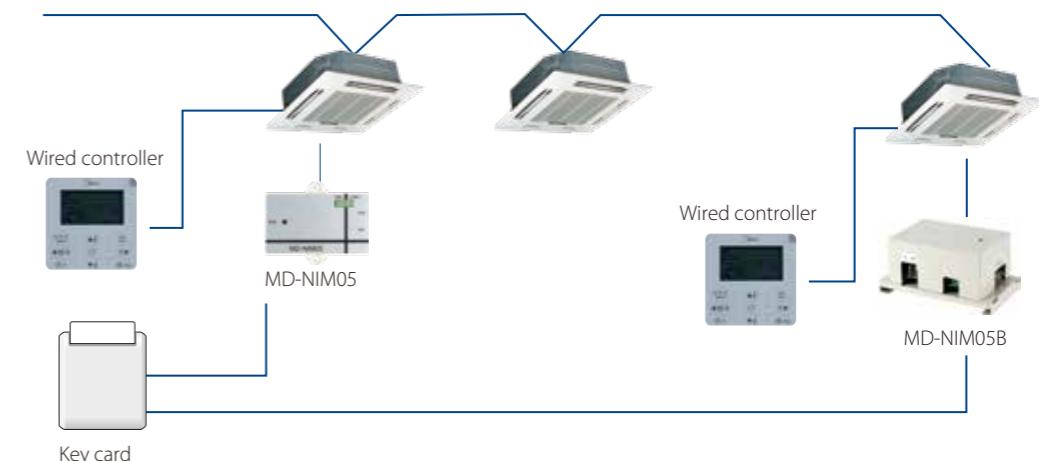
The unit can be turned on or off when inserting or removing the key card.

When the key card is in place, the air conditioner is activated. When the key card is removed, the system can remember the previous setting and stop operation. If the key card is reinserted, the unit enters standby or runs in the same state as the previously. It can stop cooling an unoccupied room to save energy.



Installation Example »

Easy installation and remote controller or wired controller can control indoor units.



Electrical Wiring »

For MD-NIM05/E, users need to buy a high voltage relay for installation.

For MD-NIM05B/E, it can be directly connected to the hotel card-insert system (AC 220V) without a high voltage relay.



Specifications

Model	MD-NIM05/E	MD-NIM05B/E
Dimensions (HxWxD) (mm)	15.5x86x72.8	87x150x70
Power (V)	DC 5V (Supplied by indoor unit)	AC 220V

Infrared Sensor Controller

Infrared sensors can induct human activities in certain areas. Indoor units will be automatically turned on or off by sensing if the room is unoccupied.

It is suitable for hotels, offices, conference rooms, residences, etc.

- ❖ Automatically adjusts the room environment.
- ❖ Automatically extends the shut down time to avoid frequent ON/OFF.
- ❖ Stylish appearance accommodates itself to different buildings.



MD-NIM09

Accurate & Comfortable Sensor »

It detects motion and automatically starts the air conditioner if motion is detected.

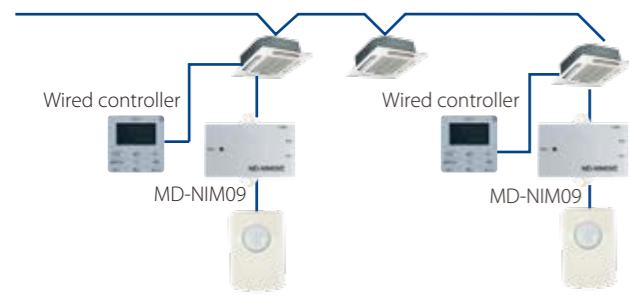
This function will save energy since it minimizes unnecessary energy usage by powering off when the area is empty.

The infrared sensor can be installed on the ceiling or wall of well-used areas.



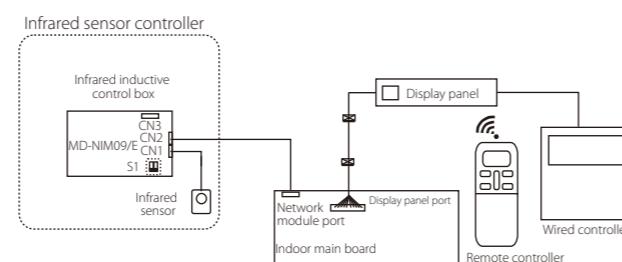
Install on the ceiling

Installation Example »



Remote controller or wired controller can control indoor unit.

Electrical Wiring »



Specifications

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

3-Phase Protector

HWUA/DPB71CM48

Detects power status and takes protective action to stop the compressor from being damaged.

Automatically distinguishes abnormal power supply conditions and automatically recovers.



HWUA DPB71CM48

Excellent Reliability »

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

Specifications

Model	With over/under voltage function				Without over/under voltage function
	HWUA	DPA53CM23	HWUA	DPB71CM48	DPA51CM44
Power supply	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	-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	2.9 VA	7 VA	2.9 VA	13 VA	13 VA
Over voltage	12%	12%	18%	18%	/
Under voltage	-12%	-12%	-12%	-12%	/
Phase imbalance	8%	/	8%	8%	/
Dimensions(WxHxD)(mm)	90x69x35	81x67.2x17.5	90x69x35	81x67x35	81x67.2x17.5

Digital Power Ammeter

DTS634
DTS636

Calculates power consumption.

Does not need adjusting after long-term use.

Corresponds one outdoor unit to one digital power meter.

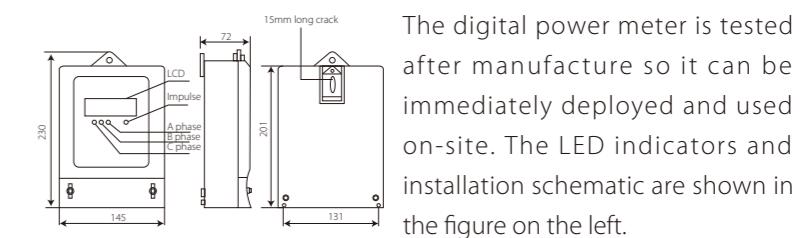
Low Power Consumption »

The digital power meter consumes minimal energy.

Voltage circuit: less than 2W/10VA

Current circuit: less than 2.5VA

Indications & Installation »



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

Specifications

Model	DTS634/DTS636
Dimensions (HxWxD)(mm)	230x145x72
Power (V)	200V-500V(50/60Hz)

Indoor Unit Group Controller



KJR-150A

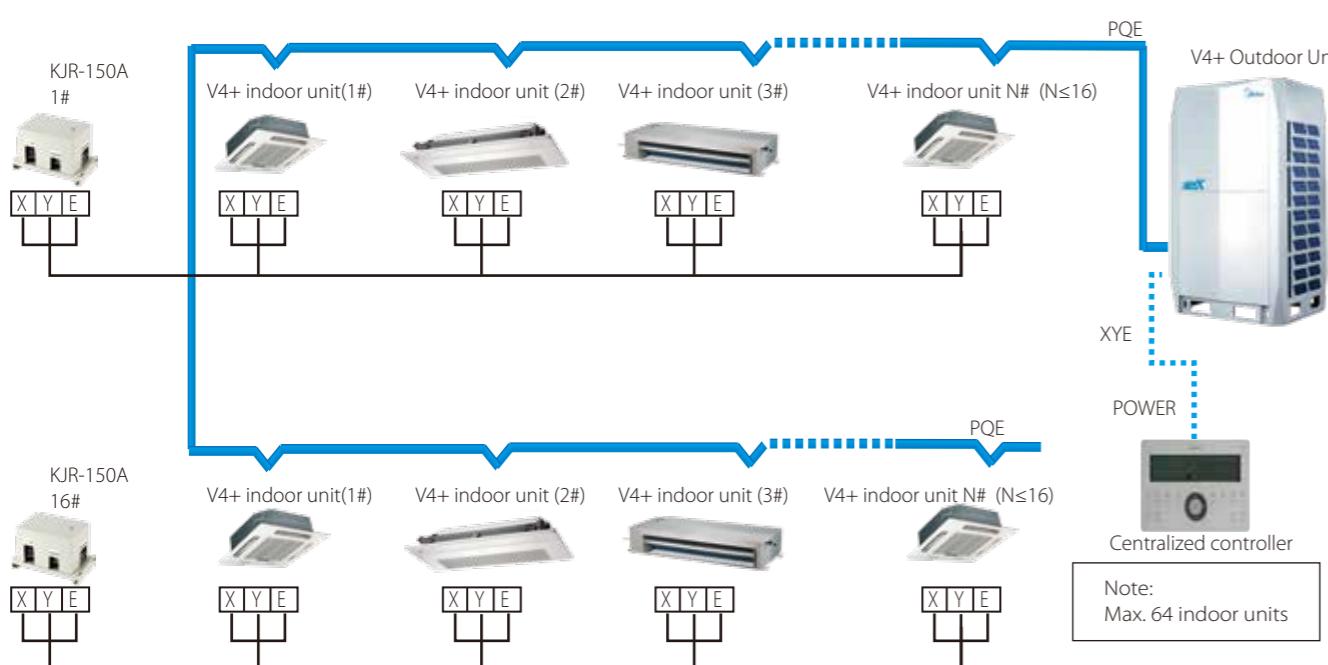
Simple Design »

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, signals from a wired controller and remote controller can control a group of indoor units simultaneously. All indoor units will run at the same setting parameters. You can also control indoor units separately in each room by remote controller. The indoor units will run as previously set.

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 (HXWxD)(mm)	85X150X70
Power (V)	198-242V(50/60Hz)

Remote Alarm Controller



KJR-32B

Simple Design »

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

Specifications

Model	KJR-32B
Dimensions (HxWxD)(mm)	85X150X70
Power (V)	198-242V(50/60Hz)

Network Electricity Distribution Module



MD-NIM10

Simple Design »

- ❖ External contact interface module
- ❖ Designed specifically for Mini VRF
- ❖ Provides the OAE ports for Mini VRF to connect with the IMM network control system, and distributes electricity across the network.

Wiring Diagram »

OAE ports: connects to the OAE port of the ammeter.

PQE ports: connects to the PQE port of the outdoor unit.

Each port on M-interface gateway can only be connected with one MD-NIM10 through K1K2E ports.



AHU Control Box



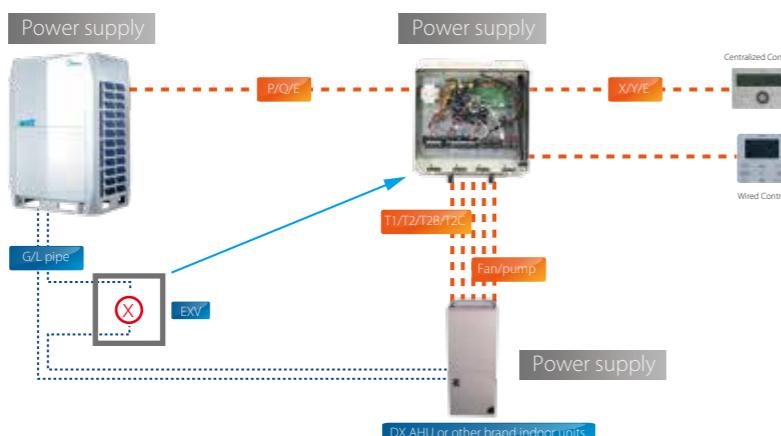
AHUKZ-01A **AHUKZ-01B**
AHUKZ-02A **AHUKZ-02B**
AHUKZ-03A **AHUKZ-03B**

Introduction »

AHU Kit can be used to connect VRF outdoor units with DX AHU or other brand indoor units with AC fan motor.

A Series and B Series are supplied. These can connect with the Midea VRF System (except V4+R& V5 Series). The A Series is an independent control box. For the B Series, up to four control boxes can be combined. The capacity reaches up to 224kW (80HP), and it's easy to create a solution for large projects.

Wiring Example »



Specifications

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

Midea Outdoor Unit Diagnosis Software

Display the outdoor units' real-time running conditions.

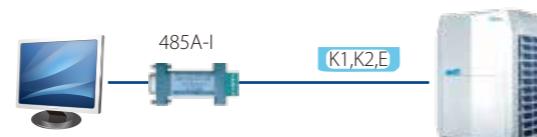
Automatically outputs running status charts.

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 »

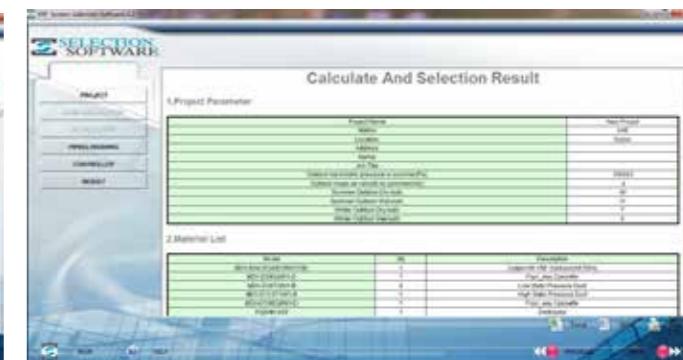
Load calculation: provides two calculation methods (detailed room load calculation and rough load calculation).

Indoor & outdoor units: choose from versatile indoor units and different outdoor units.

Piping drawing: displays the detailed layout of the 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 »

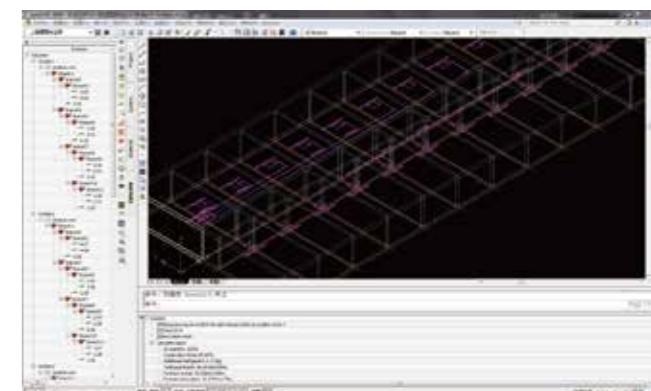
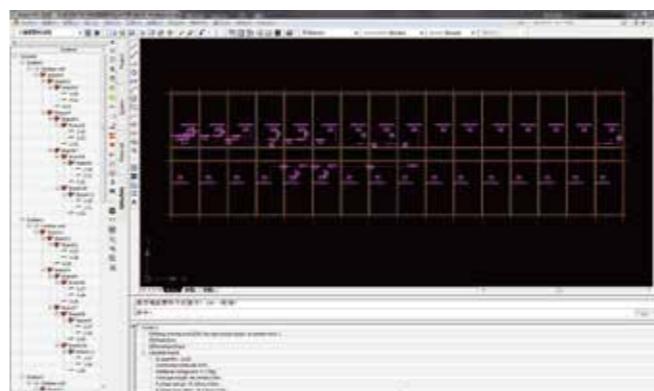
AutoCAD add-on software

Automatic Calculation: refrigerant & drain pipe size

Automatic Selection: distributor kit & branch joint

System Check: installation regulations & adding refrigerant

Automatic Report: piping installation diagram, equipment list & quotation



HRV-Heat recovery ventilator

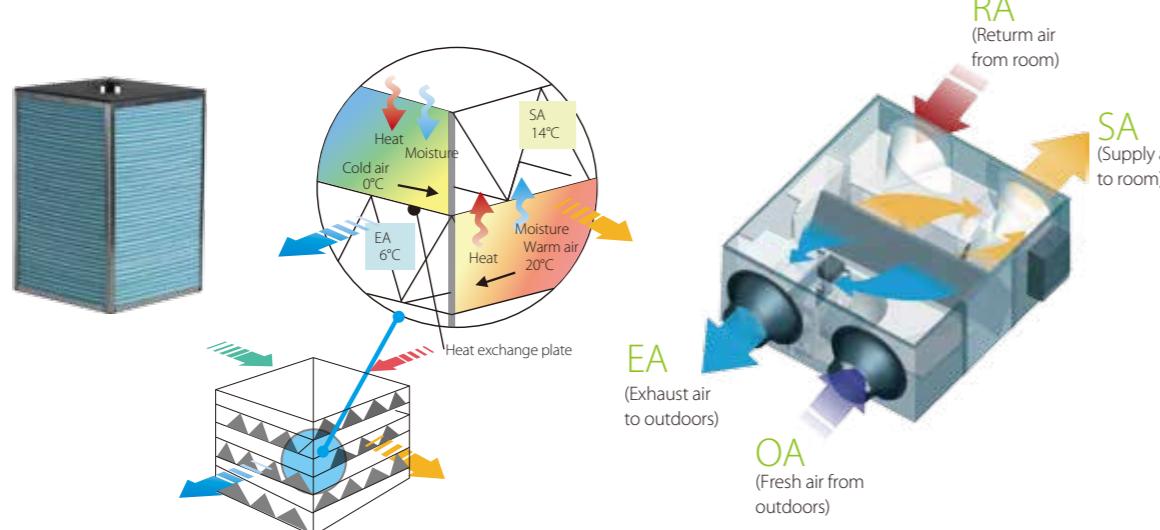
Larger air supply rate
enhanced heat exchange efficiency
enhanced energy saving property >>

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

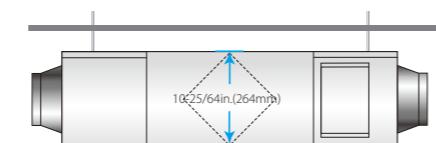


Low noise >>

Sound proof material is used to guarantee quiet operation.

Compact design, flexible installation and easy maintenance >>

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



Multi-modes for different situations >>

Heat exchange mode

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

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

Bypass mode

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

Air supply mode

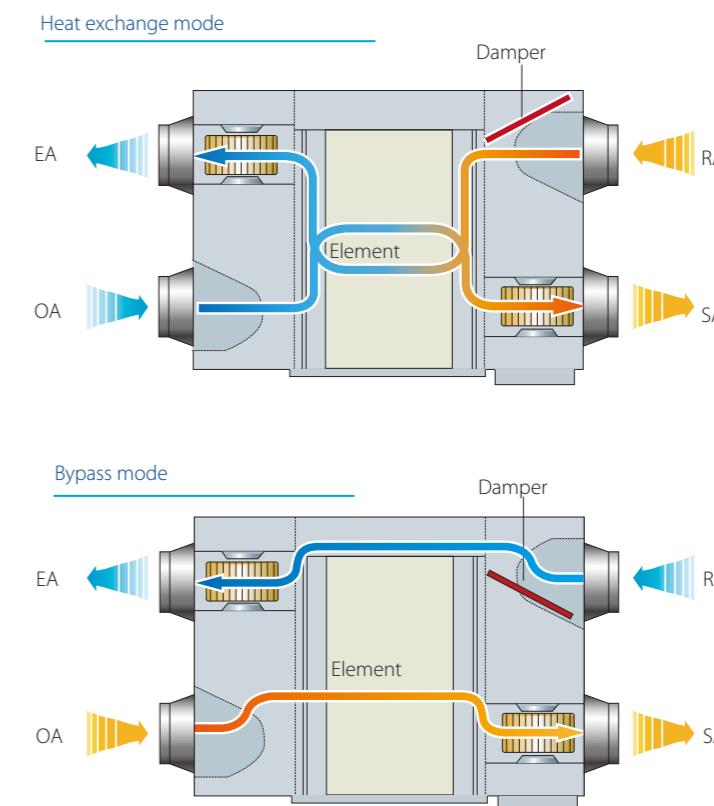
It is one kind of bypass mode with air supply fan speed higher than exhaust fan speed. It can be used in mild climate area where large amount fresh air is needed.

Exhaust air mode

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

Auto mode

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



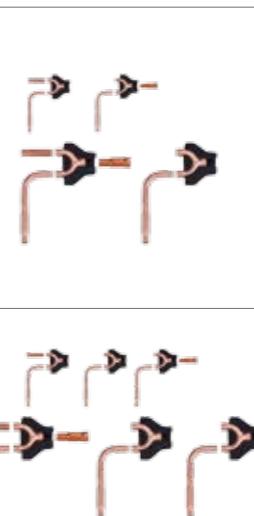
Specifications

Model	HRV-400			HRV-500	HRV-800
	V/Ph/Hz	220/1/60	220/1/60	220/1/60	220/1/60
Cooling	Temperature exchange efficiency	High	%	55	55
	Medium	%	55	55	55
	Low	%	60	60	60
	Enthalpy exchange efficiency	High	%	50	50
Heating	Medium	%	50	50	50
	Low	%	55	55	55
	Temperature exchange efficiency	High	%	60	65
	Medium	%	60	65	65
Sound pressure level	Low	%	65	70	70
	Enthalpy exchange efficiency	High	%	60	60
	Medium	%	60	60	60
	Low	%	65	65	65
Fan	Heat exchange mode	High	dB(A)	32	35
	Medium	dB(A)	31	34	38
	Low	dB(A)	25	28	32
	Bypass mode	High	dB(A)	33	36
	Medium	dB(A)	32	35	39
	Low	dB(A)	27	30	34
Net dimension (WxDxH)		mm	944x927x270	1038x1026x270	1286x1006x388
		inch	37-3/16x36-1/2x10-5/8	40-7/8x40-3/8x10-5/8	50-5/8x39-5/8x15-1/4
Packing size (WxDxH)		mm	1020x1020x452	1120x1120x452	1380x1100x573
		inch	40-5/32x40-5/32x17-3/4	40-5/32x40-5/32x17-3/4	54-5/16x43-5/16x22-9/16
Net/gross weight		kg(lbs)	31/52(68.3/114.4)	41/64(90.4/140.8)	62/88(136.7/193.6)
Casing					
Heat exchange system					
Heat exchange element material					
Fan	Type	Air to air cross flow total heat (sensible heat + latent heat) exchange			
	Airflow rate	High	m³/h(CFM)	400(235.6)	500(294.5)
		Medium	m³/h(CFM)	400(235.6)	500(294.5)
		Low	m³/h(CFM)	300(176.7)	375(220.8)
Fan	ESP	High	Pa	80	80
		Medium	Pa	65	68
		Low	Pa	43	45
	Motor output	W		80	120
Duct diameter		mm(in.)	Φ144(5-5/8)	Φ194(7-5/8)	Φ242(9-1/2)
Operating temperature range		°C	-7~43 DB, 80% RH or less		
		°F	19.4~109.4 DB, 80% RH or less		

Model	HRV-1000			HRV-1500	HRV-2000
	V/Ph/Hz	220/1/60	220/3/60	220/3/60	220/3/60
Cooling	Temperature exchange efficiency	High	%	55	55
	Medium	%	55	/	/
	Low	%	60	/	/
	Enthalpy exchange efficiency	High	%	50	50
Heating	Medium	%	50	/	/
	Low	%	55	/	/
	Temperature exchange efficiency	High	%	65	65
	Medium	%	65	/	/
Sound pressure level	Low	%	70	/	/
	Enthalpy exchange efficiency	High	%	60	60
	Medium	%	60	/	/
	Low	%	65	/	/
Fan	Heat exchange mode	High	dB(A)	40	51
	Medium	dB(A)	39	/	/
	Low	dB(A)	33	/	/
	Bypass mode	High	dB(A)	41	52
	Medium	dB(A)	40	/	/
	Low	dB(A)	35	/	/
Net dimension (WxDxH)		mm	1286x1256x388	1600x1270x540	1650x1470x540
		inch	50-5/8x49-7/16x15-1/4	63x50x21-1/4	65x57-7/8x21-1/4
Packing size (WxDxH)		mm	1400x1370x573	1710x1410x720	1760x1610x720
		inch	55-1/8x53-15/16x22-9/16	67-21/64x55-33/64x28-11/32	69-19/64x63-25/64x28-11/32
Net/gross weight		kg(lbs)	79/110(173.8/242)	163/24(358.6/492.8)	182/247(400.4/543.4)
Casing					
Heat exchange system					
Heat exchange element material					
Fan	Type	Air to air cross flow total heat (sensible heat + latent heat) exchange			
	Airflow rate	High	m³/h(CFM)	1000(588.2)	1500(882.4)
		Medium	m³/h(CFM)	1000(588.2)	/
		Low	m³/h(CFM)	750(441.2)	/
Fan	ESP	High	Pa	100	160
		Medium	Pa	85	/
		Low	Pa	58	/
	Motor output	W		360	450
Duct diameter		mm(in.)	Φ242(9-1/2)	346x326(13-5/8x12-7/8)	346x326(13-5/8x12-7/8)
Operating temperature range		°C	-7~43 DB, 80% RH or less		
		°F	19.4~109.4 DB, 80% RH or less		

Note:
1. For the units model of HRV (400-1000), there are 3-speed adjustable air volume (Hi, Med, Low), but for the units model of HRV (1500-2000), there are only 1-speed which cannot be adjusted.
2. Sound level is measured at 1.4m below the center of the body in an anechoic chamber.
3. 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 JOINTS**Branch joints of two-pipe refrigerant system**

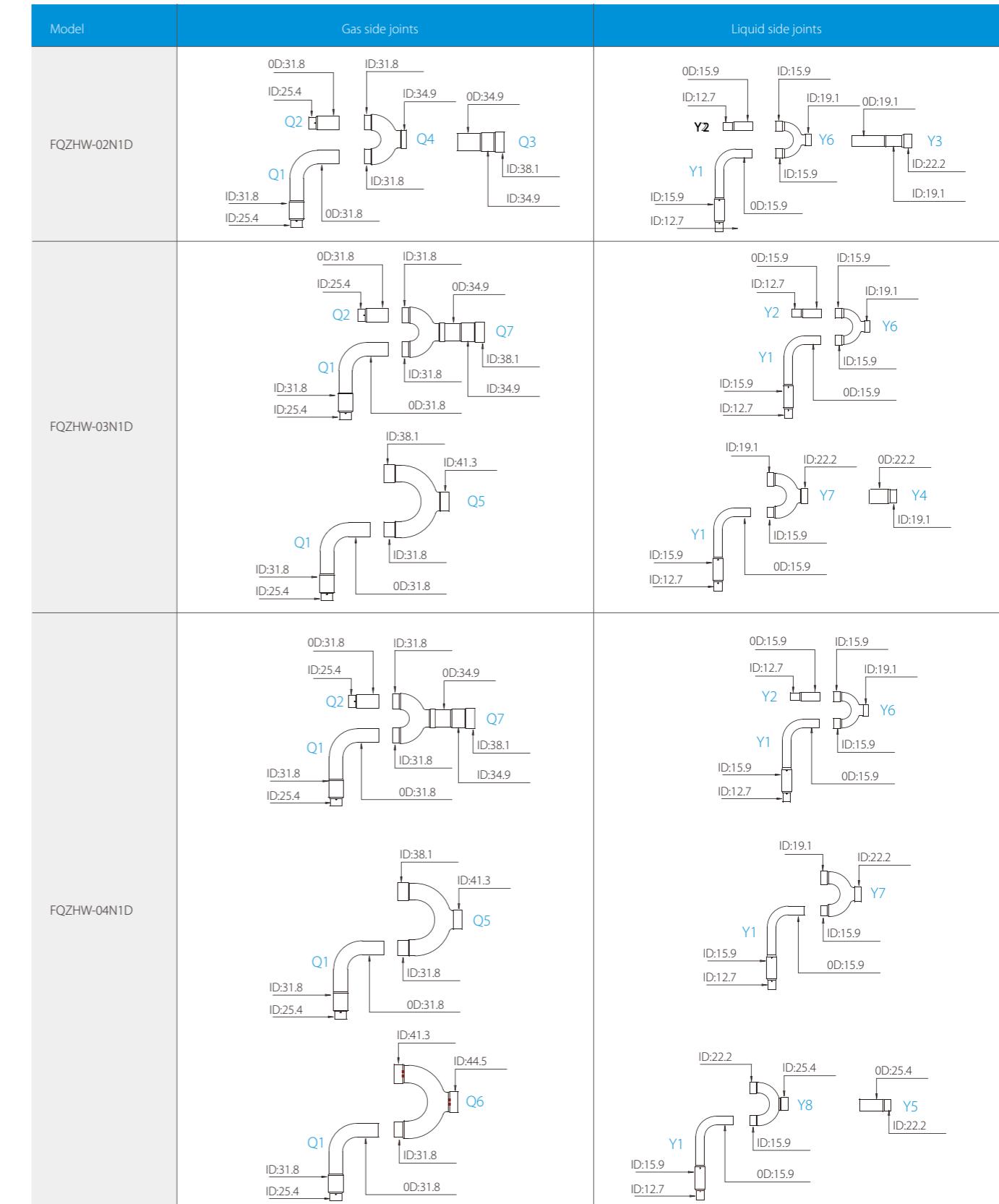
Model	Appearance	Model name	Packing Size (mm)/ Gross Weight (kg)	Description
Branch joint for 410A outdoor unit		FQZHW-02N1D	255x150x185/1.5	For two outdoor units connection
Branch joint for 410A indoor unit		FQZHN-03D	310x130x125/0.9	/
Branch joint for 410A outdoor unit		FQZHW-03N1D	345x160x285/3.4	For three outdoor units connection
Branch joint for 410A outdoor unit		FQZHW-04N1D	475x165x300/4.8	For four outdoor units connection
		FQZHN-01D	290x105x100/0.4	
		FQZHN-02D	290x105x100/0.6	
		FQZHN-04D	350x180x170/1.5	
		FQZHN-05D	365x195x215/1.9	

Branch joints of three-pipe refrigerant system

Model	Appearance	Model name	Packing Size (mm)/ Gross Weight (kg)	Description
Branch joint between outdoor unit		FQZHW-02SB	272×167×232/2.2	For two outdoor units connection
		FQZHW-03SB	472×157×312/5.0	For three outdoor units connection
		FQZHW-04SB	745×160×335/7.5	For four outdoor units connection
Branch joint between MS unit and outdoor unit		FQZHN-01SB	257×127×107/0.8	/
		FQZHN-02SB	287×137×107/0.9	
		FQZHN-03SB	297×167×177/1.4	
		FQZHN-04SB	372×197×187/2.3	
		FQZHN-05SB	432×222×227/3.3	
Branch joint between MS unit and indoor unit		FQZHN-01D	290×105×100/0.4	/

Dimensions

Outdoor branch joints of two-pipe refrigerant system



Indoor branch joints of two-pipe refrigerant system

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

◆ BRANCH PIPE

Dimensions
Outdoor branch joints of three-pipe refrigerant system

Model	Low-pressure gas side joints	High-pressure gas side joints	Liquid side joints
FQZHW-02SB			
FQZHW-03SB			
FQZHW-04SB			

◆ BRANCH PIPE

Indoor branch joints of three-pipe refrigerant system

Model	Low-pressure gas side joints	High-pressure gas side joints	Liquid side joints
FQZHN-01SB			
FQZHN-02SB			
FQZHN-03SB			
FQZHN-04SB			
FQZHN-05SB			