



Commercial Air Conditioners **2016**



GD Midea Heating & Ventilating Equipment Co., Ltd.
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Certificate No.15912E10020R0L



GD Midea Heating & Ventilating Equipment Co., Ltd.
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Certificate No. 15912S20006R0L-1.

**Commercial Air Conditioner Division
Midea Group**

Add.: West Region of Midea Commercial Air Conditioner Department, Industry Avenue,
Beijiao, Shunde, Foshan, Guangdong, P. R. China

Postal code: 528311

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

cac.midea.com global.midea.com

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



VRF 50Hz

V4+K/V4+S/V4+R/V4+W/V4+I/Mini VRF

Midea CAC After-service Application



iOS Version



Android Version

Midea CAC News Application



iOS Version

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.



- 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

Midea Company Introduction



Midea CAC Introduction



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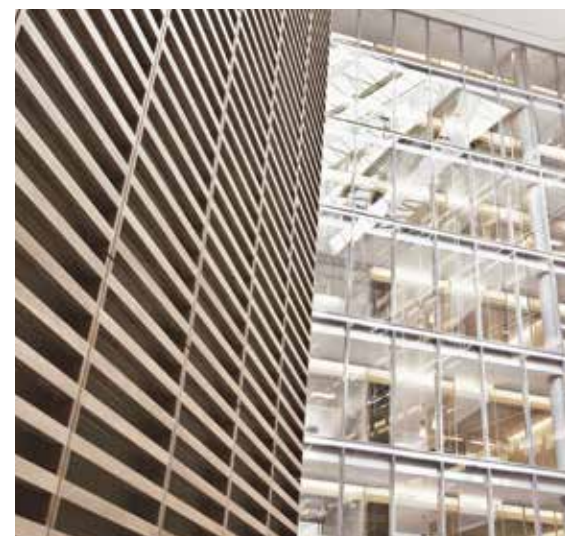
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VRF SYSTEM

VRF V4 Plus **K**ing Series



Heat pump/Cooling only
Max. 4 modules can be combined
8~72HP
DC inverter compressor + fixed compressors
Heat pump series: All DC fan motors
Cooling only series: DC fan motor + AC fan motor

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 **I**ndividual Series



Heat pump, cannot be combined
7~32HP
DC inverter compressor + fixed compressors
DC fan motor + AC fan motor

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

HP		8	10	12	14	16	18	20	22	24	26	28	30	32		34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
VRF V4 PLUS K SERIES		Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination
VRF V4 PLUS S SERIES		Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination
VRF V4 PLUS R SERIES		Single unit	Single unit	Single unit	Single unit	Single unit	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination
VRF V4 PLUS W SERIES		Single unit	Single unit	Single unit		Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination	Multi combination																	





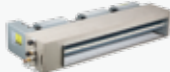







Single VRF

HP		3	4	4.5	5	6	6.5	7	8	10	12	14	16	20		22	24	26	28	30	32
VRF MINI SERIES		Single unit	Single unit	Single unit	Single unit	Single unit	Single unit														
VRF V4 PLUS I SERIES								Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit

Single unit

Multi combination

INDOOR UNIT LINEUP

kW			1.5	1.8	2.2	2.8	3.6	4.5	5.6	7.1	8.0												9.0	10.0	11.2	12.5	14.0	16.0	20.0	25.0	28.0	40.0	45.0	56.0
Btu/h			5k	6k	7k	9k	12k	15k	19k	24k	27k												30k	34k	38k	42k	48k	55k	68k	85k	96k	136k	154k	191k
Cassette	One-way cassette																																	
	Two-way cassette																																	
	Four-way cassette																																	
	Compact four-way cassette																																	
Duct	Low static pressure																																	
	Medium static pressure																																	
	High static pressure																																	
	Fresh air processing unit																																	
Wall mounted																																		
Ceiling & floor																																		
Floor standing																																		
Console																																		

Notes:
1.5kW model is only available for Mini VRF and V4+I (side discharge) Series.
Fresh air processing unit is not available for V4+R and Mini VRF Series.

REFERENCE PROJECTS

Residential Place >>



Case 1: Time City

Country: Vietnam
 City: Ha Noi
 Total Capacity: 1,700 HP
 A/C: DC Inverter VRF System
 Completion Year: 2013
 Total Floor Area: 260,000 m²

Hotel >>



Case 2: Alan Xafira Deluxe Resort & Spa (Five Star)

Country: Turkey
 City: Alanya
 Total Capacity: 1,380 HP
 A/C: DC Inverter VRF
 Completion Year: 2013



Sports >>



Case 3: 2014 FIFA World Cup Brazil Beira Rio Stadium

Country: Brazil
 City: Porto Alegre
 Total Capacity: 1,016 HP
 A/C: DC Inverter VRF (Heat Recovery)
 Completion Year: 2014

Governmental Project >>

Case 4: Mozambique Presidential Palace

Country: Mozambique
 City: Maputo
 Total Capacity: 863 HP
 A/C: DC Inverter VRF System
 Completion Year: 2013





» OUTDOOR UNITS

VRF V4 PLUS SYSTEM

VRF V4 PLUS K SERIES
VRF V4 PLUS S SERIES
VRF V4 PLUS R SERIES
VRF V4 PLUS W SERIES
VRF V4 PLUS I SERIES
VRF MINI SERIES

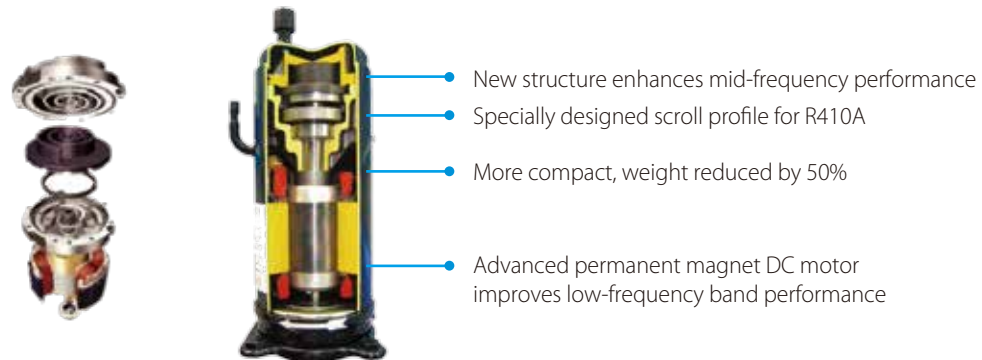
Technologies



1. High Efficiency DC Inverter Compressor >>

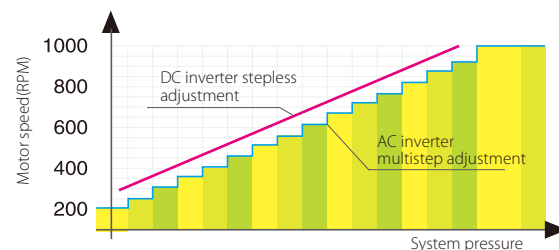
Midea VRF Air Conditioner achieves the industry's top class energy efficiency in cooling and heating by utilizing DC inverter compressor, DC fan motor, and high efficiency heat exchanger.

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 >>

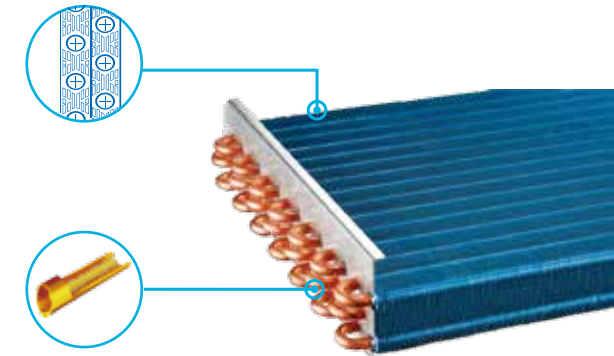
The system controls the speed of the fan motor according to the system pressure and system load achieving the minimum power consumption.



3. High Efficiency Heat Exchanger >>

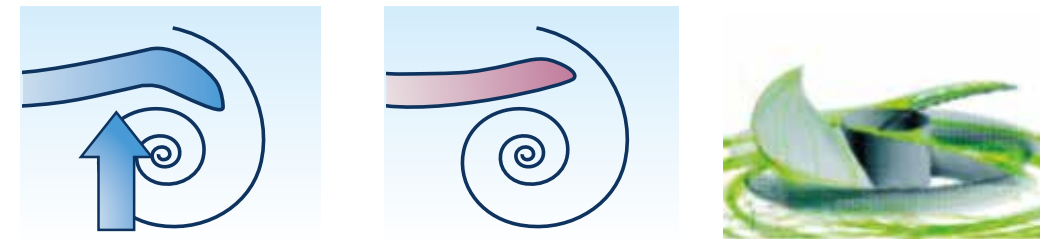
Newly designed window type fins enlarge the heat exchange area and decrease air resistance, enhance heat exchange performance and save more energy.

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.

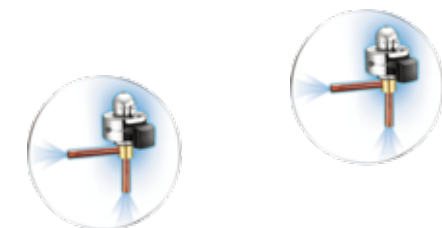


5. Multi Solenoid Valves Control >>

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 extensive capacity ranging from 3HP to 72HP, meets all customer requirement concerning small to large buildings.



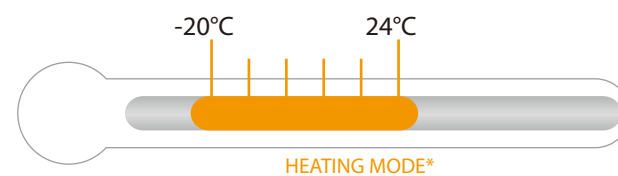
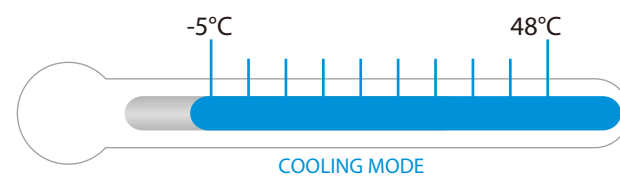
Wide Range of Indoor Units >>

Midea provides 12 types and more than 100 models of VRF indoor units maximum meeting varied customer requirements. It widely applied in market, hospital, office building, hotel, airport, etc..



Wide Operation Range >>

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



*HEATING MODE is only available for heat pump series.

High Reliability

Cycle Duty Operation >>

The cyclical start-up sequence of outdoor units and DC inverter compressors equalized compressor duty and extends operating life.



Backup Operation >>

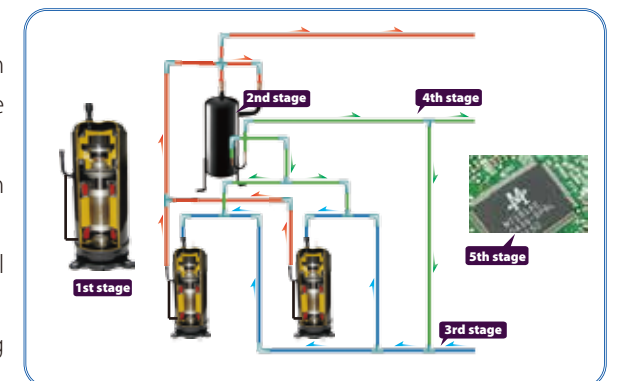
In a multiple system, if one module is failed, other modules can be backup instead of the failed one for continuing operation.



Precise Oil Control Technology >>

5 stages oil control technology ensures all outdoor unit and compressor oil is always kept at a safe level, completely solving any compressor oil shortage problems.

- ❖ **1st stage:** Compressor internal oil separation.
- ❖ **2nd stage:** High efficiency centrifugal oil separator (separation efficiency up to 99%) ensures oil separated from the discharge gas is returned to the compressors.
- ❖ **3rd stage:** Oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.
- ❖ **4th stage:** Oil balance pipes among modules ensure even oil distribution among modules.
- ❖ **5th stage:** Auto oil return program by monitoring the running time and system status ensures reliable oil return.



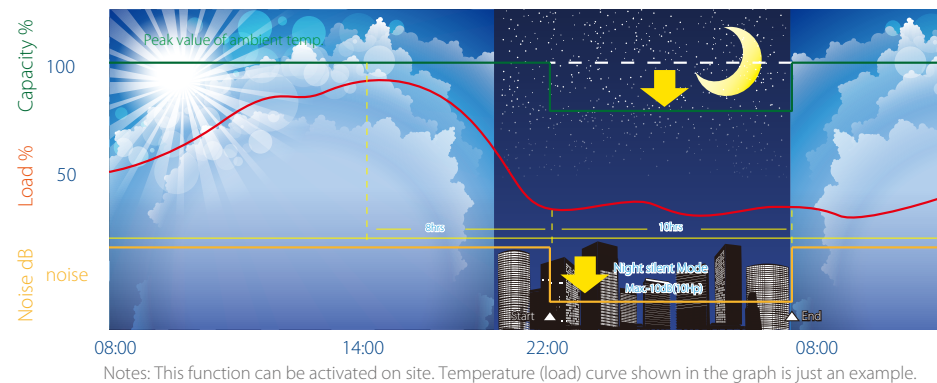
Enhanced Comfort

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.

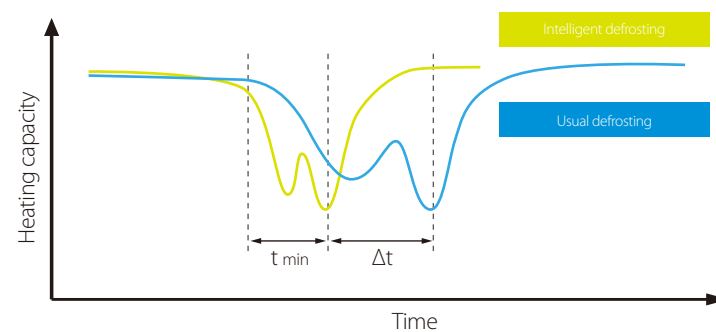
- Mode 1→X: 6 hours, Y: 10 hours
- Mode 2→X: 8 hours, Y: 10 hours
- Mode 3→X: 6 hours, Y: 12 hours
- Mode 4→X: 8 hours, Y: 8 hours



Intelligent Defrosting Technology >>

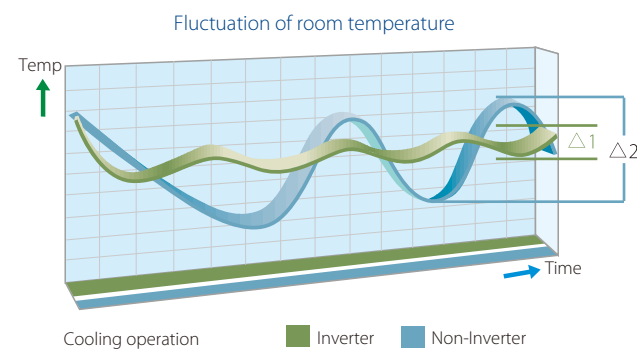
Intelligent defrosting program will judge the defrosting time according to the system real requirement, reduce heating loss caused by unnecessary defrosting and create more comfort. Defrosting time can be shortened to 4 min. due to the specialized defrosting valve.

*This function is only available for heat pump series.



Rapid Warm Up and Cool Down Function >>

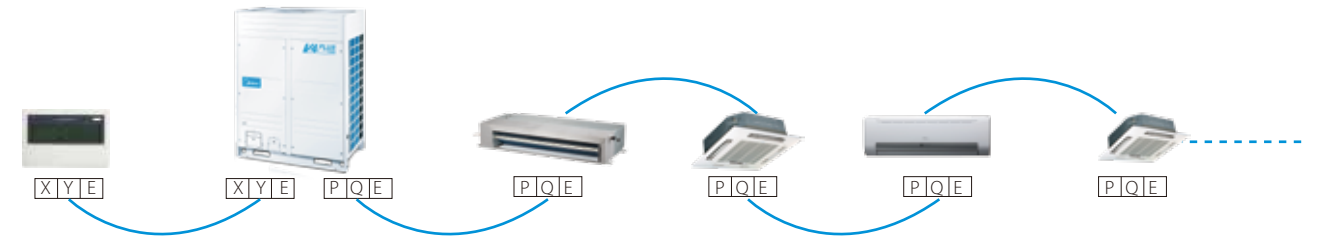
The DC Inverter Compressor system reaches full load rapidly providing less temperature fluctuation and an improved living environment.



Easy Installation and Service

Simple Communication Wiring >>

Centralized controller (CCM03 or CCM30) can be connected from indoor side or outdoor side (XYE terminals) at will. With one set of wires, we can achieve the network communication and system communication, making installation at site more convenient.



Auto Addressing >>

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



Easy Maintenance >>

Inspection window for checking the systems status.

Self-diagnosis function helps service engineers locate faults quickly and easily.



Compressor is located near the door, which simplifies checks 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.



Outdoor branch joint



Indoor branch joint



Indoor branch box

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

**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



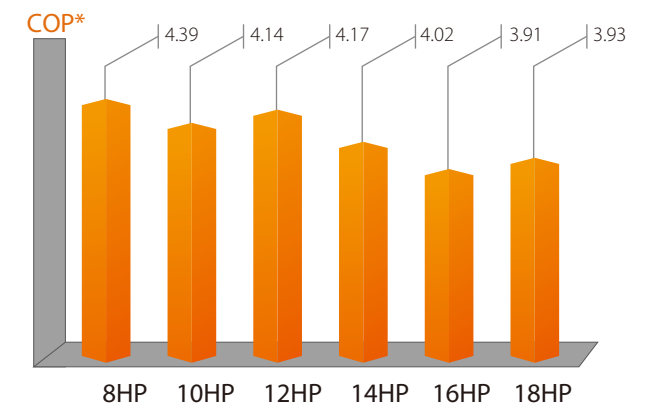
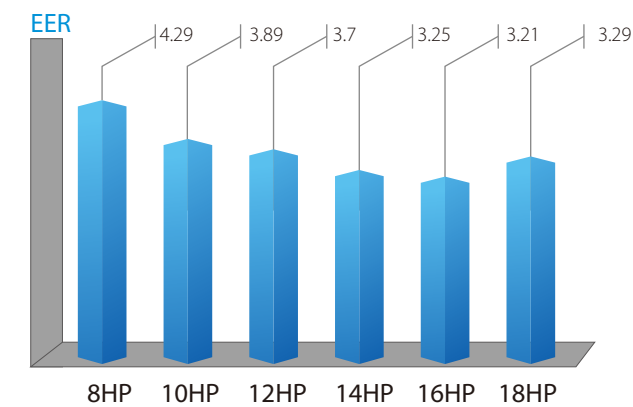
VRF V4 Plus K Series Heat Pump/Cooling Only

Optimized design
for small to large
buildings

- » DC inverter compressor
- » DC fan motor
- » 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

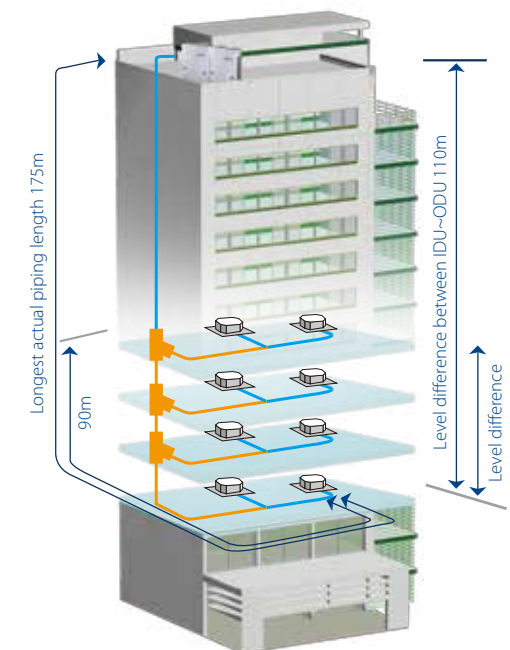
High EER and COP Values »

The cooling EER is up to 4.29 and the heating COP is up to 4.39 in the 8HP category.



*COP values are only available for heat pump series.

Long Piping Length »



Total piping length	1000m
Longest length actual (Equivalent)	175(200)m
Longest length after first branch	90*m
Level difference between indoor and outdoor units - ODU up (down)	70(110)m
Level difference between indoor units	30m

*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.

VRF V4 Plus K Series - Heat Pump/Cooling Only



HP			8	10	12	14	16	18
Model (Heat pump series) MDV-			252(8)W/DRN1(D)	280(10)W/DRN1(D)	335(12)W/DRN1(D)	400(14)W/DRN1(D)	450(16)W/DRN1(D)	500(18)W/DRN1(D)
Model (Cooling only series) MDVC-			252(8)W/DRN1(C)	280(10)W/DRN1(C)	335(12)W/DRN1(C)	400(14)W/DRN1(C)	450(16)W/DRN1(C)	500(18)W/DRN1(C)
Power supply		V/Ph/Hz	380-415/3/50					
Cooling	Capacity	kW	25.2	28.0	33.5	40.0	45.0	50.0
	Power input	kW	5.88	7.20	9.05	12.31	14.02	15.20
	EER		4.29	3.89	3.70	3.25	3.21	3.29
Heating*	Capacity	kW	27.0	31.5	37.5	45.0	50.0	56.0
	Power input	kW	6.15	7.61	8.99	11.19	12.79	14.25
	COP		4.39	4.14	4.17	4.02	3.91	3.93
Connectable indoor unit			50~130% of outdoor unit capacity					
Max. quantity			13	16	20	23	26	29
Compressor	Type		DC inverter+Fixed					
	Quantity		1	1	1+1	1+1	1+1	1+1
Fan motor	Type		All DC motors for Heat pump series; DC+AC for Cooling only series					
	Quantity		1	1	1+1	1+1	1+1	1+1
	Static pressure	Pa	0-20 (default)					
Pa			20-40 (customized)		20-60 (customized)	20-40 (customized)		
Refrigerant	Type		R410A					
	Factory charging	kg	9	9	11	13	13	16
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ19.1
	Gas pipe	mm	Φ25.4	Φ25.4	Φ31.8	Φ31.8	Φ31.8	Φ31.8
	Oil balance pipe	mm	Φ6					
Air flow rate	m³/h		11500	11500	15100	15100	15250	15250
Sound pressure level	dB(A)		57	57	59	60	60	61
Net dimension (W×H×D)	mm		960×1615×765			1250×1615×765		
Packing size (W×H×D)	mm		1025×1790×830			1305×1790×820		
Net weight (Heat pump series)	kg		200	200	268	280	280	300
Gross weight (Heat pump series)	kg		215	215	288	300	300	320
Net weight (Cooling only series)	kg		198	198	268	280	280	300
Gross weight (Cooling only series)	kg		213	213	288	300	300	320
Operating temperature range		°C	Cooling: -5-48; Heating*: -20-24					



HP			20	22	24	26	28
Model (Heat pump series) MDV-			560(20)W/DRN1(D)	615(22)W/DRN1(D)	680(24)W/DRN1(D)	730(26)W/DRN1(D)	780(28)W/DRN1(D)
Model (Cooling only series) MDVC-			560(20)W/DRN1(C)	615(22)W/DRN1(C)	680(24)W/DRN1(C)	730(26)W/DRN1(C)	780(28)W/DRN1(C)
Combined type			10HP×2	10HP+12HP	10HP+14HP	10HP+16HP	10HP+18HP
Power supply		V/Ph/Hz	380-415/3/50				
Cooling	Capacity	kW	56.0	61.5	68.0	73	78
	Power input	kW	14.40	16.25	19.51	21.22	22.40
	EER		3.89	3.78	3.49	3.44	3.48
Heating*	Capacity	kW	63.0	69.0	76.5	81.5	87.5
	Power input	kW	15.22	16.60	18.80	20.40	21.86
	COP		4.14	4.16	4.07	4.00	4.00
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity					
	Max. quantity		33	36	39	43	46
Compressor	Type	DC inverter+Fixed					
	Quantity		2	2+1	2+1	2+1	2+1
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series					
	Quantity		2	2+1	2+1	2+1	2+1
Refrigerant	Type	R410A					
	Factory charging	kg	9×2	9+11	9+13	9+13	9+16
Pipe connections	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ19.1	Φ19.1
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6	Φ31.8	Φ31.8
	Oil balance pipe	mm	Φ6				
Air flow rate	m³/h	11500×2	11500+15100	11500+15100	11500+15100	11500+15250	
Sound pressure level	dB(A)	62	63	63	63	63	
Net dimension (W×H×D)	mm	(960×1615×765)×2					(960×1615×765)+(1250×1615×765)
Packing size (W×H×D)	mm	(1025×1790×830)×2					(1025×1790×830)+(1305×1790×820)
Net weight (Heat pump series)	kg	200×2	200+268	200+280	200+280	200+300	
Gross weight (Heat pump series)	kg	215×2	215+288	215+300	215+300	215+320	
Net weight (Cooling only series)	kg	198×2	198+268	198+280	198+280	198+300	
Gross weight (Cooling only series)	kg	213×2	213+288	213+300	213+300	213+320	
Operating temperature range		°C	Cooling: -5-48; Heating*: -20-24				

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

*heating is only available for heat pump series.

VRF V4 Plus K Series - Heat Pump/Cooling Only



HP			30	32	34	36	38	
Model (Heat pump series) MDV-			850(30)W/DRN1(D)	900(32)W/DRN1(D)	950(34)W/DRN1(D)	1000(36)W/DRN1(D)	1060(38)W/DRN1(D)	
Model (Cooling only series) MDVC-			850(30)W/DRN1(C)	900(32)W/DRN1(C)	950(34)W/DRN1(C)	1000(36)W/DRN1(C)	1060(38)W/DRN1(C)	
Combined type			14HP+16HP	14HP+18HP	16HP+18HP	18HPx2	10HPx2+18HP	
Power supply		V/Ph/Hz	380-415/3/50					
Cooling	Capacity	kW	85.0	90.0	95.0	100.0	106.0	
	Power input	kW	26.33	27.51	29.22	30.40	29.59	
	EER		3.23	3.27	3.25	3.29	3.58	
Heating*	Capacity	kW	95.0	101.0	106.0	112.0	119.0	
	Power input	kW	23.98	25.44	27.04	28.50	29.47	
	COP		3.96	3.97	3.92	3.93	4.04	
Connectable indoor unit			50~130% of outdoor unit capacity					
Compressor	Max. quantity		50	53	56	59	63	
	Type		DC inverter+Fixed					
Fan motor	Quantity		2+2				3+1	
	Type		All DC motors for Heat pump series; DC+AC for Cooling only series					
Refrigerant	Quantity		2+2				3+1	
	Type		R410A					
Pipe connections	Factory charging	kg	13+13	13+16	13+16	16x2	9x2+16	
	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1	Φ19.1	
	Gas pipe	mm	Φ31.8	Φ31.8	Φ38.1	Φ38.1	Φ38.1	
	Oil balance pipe	mm	Φ6					
Air flow rate	m³/h		15100x2	15100+15250	15100+15250	15250x2	11500x2+15250	
Sound pressure level	dB(A)		64	64	64	64	64	
Net dimension (WxHxD)			(1250x1615x765)x2					(960x1615x765)x2+(1250x1615x765)
Packing size (WxHxD)			(1305x1790x820)x2					(1025x1790x830)x2+(1305x1790x820)
Net weight (Heat pump series)			280x2	280+300	280+300	300x2	200x2+300	
Gross weight (Heat pump series)			300x2	300+320	300+320	320x2	215x2+320	
Net weight (Cooling only series)			280x2	280+300	280+300	300x2	198x2+300	
Gross weight (Cooling only series)			300x2	300+320	300+320	320x2	213x2+320	
Operating temperature range			Cooling: -5~48; Heating*: -20~24					



HP			40	42	44	46	48
Model (Heat pump series) MDV-			1130(40)W/DRN1(D)	1180(42)W/DRN1(D)	1230(44)W/DRN1(D)	1280(46)W/DRN1(D)	1350(48)W/DRN1(D)
Model (Cooling only series) MDVC-			1130(40)W/DRN1(C)	1180(42)W/DRN1(C)	1230(44)W/DRN1(C)	1280(46)W/DRN1(C)	1350(48)W/DRN1(C)
Combined type			10HP+14HP+16HP	10HP+16HPx2	10HP+16HP+18HP	10HP+18HPx2	14HP+16HP+18HP
Power supply		V/Ph/Hz	380-415/3/50				
Cooling	Capacity	kW	113.0	118.0	123.0	128.0	135.0
	Power input	kW	33.53	35.24	36.42	37.59	41.53
	EER		3.37	3.35	3.38	3.40	3.25
Heating*	Capacity	kW	126.5	131.5	137.5	143.5	151.0
	Power input	kW	31.59	33.18	34.65	36.11	38.23
	COP		4.00	3.96	3.97	3.97	3.95
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity					
	Max. quantity	64					
Compressor	Type	DC inverter+Fixed					
	Quantity	3+2					3+3
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series					
	Quantity	3+2					3+3
Refrigerant	Type	R410A					
	Factory charging	kg	9+13x2	9+13x2	9+13+16	9+16x2	13x2+16
Pipe connections	Liquid pipe	mm	Φ19.1				
	Gas pipe	mm	Φ38.1				
	Oil balance pipe	mm	Φ6				
	Air flow rate	m³/h	11500+15100x2	11500+15100x2	11500+15100+15250	11500+15250x2	15100x2+15250
Sound pressure level	dB(A)	65					66
Net dimension (WxHxD)	mm	(960x1615x765)+(1250x1615x765)x2					(1250x1615x765)x3
Packing size (WxHxD)	mm	(1025x1790x830)+(1305x1790x820)x2					(1305x1790x820)x3
Net weight (Heat pump series)	kg	200+280x2	200+280x2	200+280+300	200+300x2	280x2+300	
Gross weight (Heat pump series)	kg	215+300x2	215+300x2	215+300+320	215+320x2	300x2+320	
Net weight (Cooling only series)	kg	198+280x2	198+280x2	198+280+300	198+300x2	280x2+300	
Gross weight (Cooling only series)	kg	213+300x2	213+300x2	213+300+320	213+320x2	300x2+320	
Operating temperature range		℃	Cooling: -5~48; Heating*: -20~24				

VRF V4 Plus K Series - Heat Pump/Cooling Only



HP			50	52	54
Model (Heat pump series) MDV-			1400(50)W/DRN1(D)	1450(52)W/DRN1(D)	1500(54)W/DRN1(D)
Model (Cooling only series) MDVC-			1400(50)W/DRN1(C)	1450(52)W/DRN1(C)	1500(54)W/DRN1(C)
Combined type			14HP+18HPx2	16HP+18HPx2	18HPx3
Power supply			V/Ph/Hz		
Cooling	Capacity	kW	140.0	145.0	150.0
	Power input	kW	42.70	44.42	45.59
	EER		3.28	3.26	3.29
Heating*	Capacity	kW	157.0	162.0	168.0
	Power input	kW	39.69	41.29	42.75
	COP		3.96	3.92	3.93
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
	Max. quantity	64			
Compressor	Type	DC inverter+Fixed			
	Quantity	3+3			
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series			
	Quantity	3+3			
Refrigerant	Type	R410A			
	Factory charging	kg	13+16x2	13+16x2	16x3
Pipe connections	Liquid pipe	mm	Φ22.2		
	Gas pipe	mm	Φ41.3		
	Oil balance pipe	mm	Φ6		
Air flow rate			15100+15250x2	15100+15250x2	15250x3
Sound pressure level			66		
Net dimension (WxHxD)			(1250x1615x765)x3		
Packing size (WxHxD)			(1305x1790x820)x3		
Net weight (Heat pump series)			280+300x2	280+300x2	300x3
Gross weight (Heat pump series)			300+320x2	300+320x2	320x3
Net weight (Cooling only series)			280+300x2	280+300x2	300x3
Gross weight (Cooling only series)			300+320x2	300+320x2	320x3
Operating temperature range			Cooling: -5-48; Heating*: -20-24		



HP			56	58	60
Model (Heat pump series) MDV-			1560(56)W/DRN1(D)	1630(58)W/DRN1(D)	1680(60)W/DRN1(D)
Model (Cooling only series) MDVC-			1560(56)W/DRN1(C)	1630(58)W/DRN1(C)	1680(60)W/DRN1(C)
Combined type			10HPx2+18HPx2	10HP+14HP+16HP+18HP	10HP+14HP+18HPx2
Power supply			V/Ph/Hz		
Cooling	Capacity	kW	156.0	163.0	168.0
	Power input	kW	44.79	48.72	49.90
	EER		3.48	3.35	3.37
Heating*	Capacity	kW	175.0	182.5	188.5
	Power input	kW	43.72	45.84	47.30
	COP		4.00	3.98	3.98
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
	Max. quantity	64			
Compressor	Type	DC inverter+Fixed			
	Quantity	4+2			
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series			
	Quantity	4+2			
Refrigerant	Type	R410A			
	Factory charging	kg	9x2+16x2	9+13+13+16	9+13+16x2
Pipe connections	Liquid pipe	mm	Φ22.2		
	Gas pipe	mm	Φ41.3		
	Oil balance pipe	mm	Φ6		
Air flow rate			11500x2+15250x2	11500+15100x2+15250	11500+15100+15250x2
Sound pressure level			66	67	67
Net dimension (WxHxD)			(960x1615x765)x2+(1250x1615x765)x2	(960x1615x765)+(1250x1615x765)x3	
Packing size (WxHxD)			(1025x1790x830)x2+(1305x1790x820)x2	(1025x1790x830)+(1305x1790x820)x3	
Net weight (Heat pump series)			200x2+300x2	200+280x2+300	200+280+300x2
Gross weight (Heat pump series)			215x2+320x2	215+300x2+320	215+300+320x2
Net weight (Cooling only series)			198x2+300x2	198+280x2+300	198+280+300x2
Gross weight (Cooling only series)			213x2+320x2	213+300x2+320	213+300+320x2
Operating temperature range			Cooling: -5-48; Heating*: -20-24		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

*heating is only available for heat pump series.

VRF V4 Plus K Series - Heat Pump/Cooling Only



HP			62	64	66
Model (Heat pump series) MDV-			1730(62)W/DRN1(D)	1780(64)W/DRN1(D)	1850(66)W/DRN1(D)
Model (Cooling only series) MDVC-			1730(62)W/DRN1(C)	1780(64)W/DRN1(C)	1850(66)W/DRN1(C)
Combined type			10HP+16HP+18HPx2	10HP+18HPx3	14HP+16HP+18HPx2
Power supply			V/Ph/Hz		
Cooling	Capacity	kW	173	178	185
	Power input	kW	51.613	52.792	56.723
	EER		3.35	3.37	3.26
Heating*	Capacity	kW	193.5	199.5	207
	Power input	kW	48.896	50.359	52.481
	COP		3.96	3.96	3.94
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
	Max. quantity	64			
Compressor	Type	DC inverter+Fixed			
	Quantity	4+3			
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series			
	Quantity	4+3			
Refrigerant	Type	R410A			
	Factory charging	kg	9+13+16x2	9+16x3	13x2+16x2
Pipe connections	Liquid pipe	mm	Φ22.2	Φ22.2	Φ25.4
	Gas pipe	mm	Φ41.3		
	Oil balance pipe	mm	Φ6		
Air flow rate			11500+15100+15250x2	11500+15250x3	15100x2+15250x2
Sound pressure level			67		
Net dimension (WxHxD)			(960x1615x765)+(1250x1615x765)x3		
Packing size (WxHxD)			(1025x1790x830)+(1305x1790x820)x3		
Net weight (Heat pump series)			200+280+300x2	200+300x3	280x2+300x2
Gross weight (Heat pump series)			215+300+320x2	215+320x3	300x2+320x2
Net weight (Cooling only series)			198+280+300x2	198+300x3	280x2+300x2
Gross weight (Cooling only series)			213+300+320x2	213+320x3	300x2+320x2
Operating temperature range			Cooling: -5-48; Heating*: -20-24		



HP			68	70	72
Model (Heat pump series) MDV-			1900(68)W/DRN1(D)	1950(70)W/DRN1(D)	2000(72)W/DRN1(D)
Model (Cooling only series) MDVC-			1900(68)W/DRN1(C)	1950(70)W/DRN1(C)	2000(72)W/DRN1(C)
Combined type			14HP+18HPx3	16HP+18HPx3	18HPx4
Power supply			V/Ph/Hz		
Cooling	Capacity	kW	190	195	200
	Power input	kW	57.902	59.613	60.792
	EER		3.28	3.27	3.29
Heating*	Capacity	kW	213	218	224
	Power input	kW	53.944	55.537	57
	COP		3.95	3.93	3.93
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
	Max. quantity	64			
Compressor	Type	DC inverter+Fixed			
	Quantity	4+4			
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series			
	Quantity	4+4			
Refrigerant	Type	R410A			
	Factory charging	kg	13+16x3	13+16x3	16x4
Pipe connections	Liquid pipe	mm	Φ25.4		
	Gas pipe	mm	Φ44.5		
	Oil balance pipe	mm	Φ6		
Air flow rate			15100+15250x3	15100+15250x3	15250x4
Sound pressure level			68		
Net dimension (WxHxD)			(1250x1615x765)x4		
Packing size (WxHxD)			(1305x1790x820)x4		
Net weight (Heat pump series)			280+300x3	280+300x3	320x4
Gross weight (Heat pump series)			300+320x3	300+320x3	320x4
Net weight (Cooling only series)			280+300x3	280+300x3	320x4
Gross weight (Cooling only series)			300+320x3	300+320x3	320x4
Operating temperature range			Cooling: -5-48; Heating*: -20-24		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

*heating is only available for heat pump series.

**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



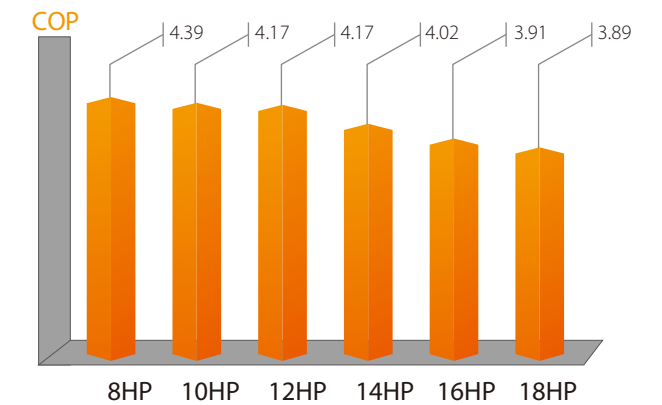
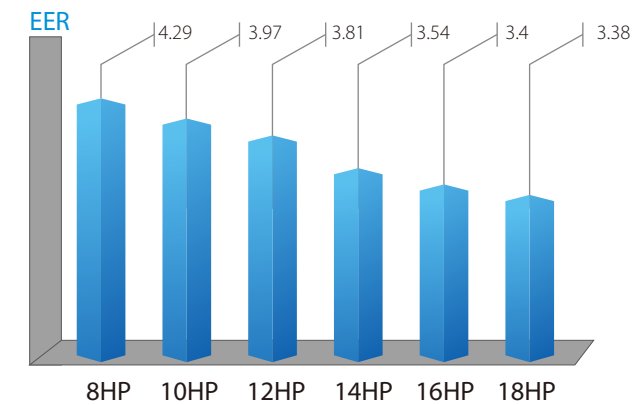
VRF V4 Plus S Series Heat Pump

Optimized design
for small to large
buildings

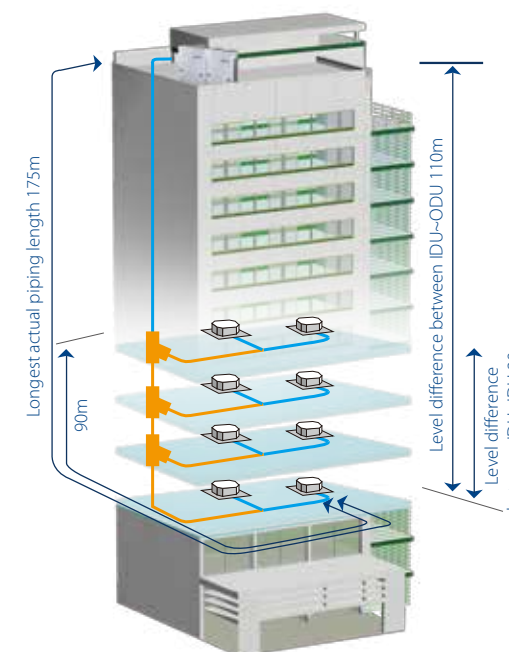
- » ALL DC inverter compressors
- » ALL DC fan motors
- » Capacity up to 72HP
- » Connectable indoor units quantity up to 64
- » ESP up to 60Pa
- » Cycle duty operation
- » Backup operation
- » Precise oil control technology
- » Advanced silence technology
- » Intelligent defrosting technology
- » Simple 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
Longest length actual (Equivalent)	175(200)m
Longest length after first branch	90*m
Level difference between indoor and outdoor units - ODU up (down)	70(110)m
Level difference between indoor units	30m

*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.

VRF V4 Plus S Series - Heat Pump



HP	8	10	12	14	16	18
Model MDV-	252(8)W/D2RN1(B)	280(10)W/D2RN1(B)	335(12)W/D2RN1(B)	400(14)W/D2RN1(B)	450(16)W/D2RN1(B)	500(18)W/D2RN1(B)
Power supply	V/Ph/Hz					
Cooling	Capacity	25.2	28.0	33.5	40.0	45.0
	Power input	5.88	7.05	8.79	11.30	13.25
	EER	4.29	3.97	3.81	3.54	3.40
Heating	Capacity	27.0	31.5	37.5	45.0	50.0
	Power input	6.15	7.55	8.99	11.19	12.79
	COP	4.39	4.17	4.17	4.02	3.91
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
Compressor	Max. quantity	13	16	20	23	26
	Type	DC inverter				
	Quantity	1	1	2	2	2
Fan motor	Type	DC motor				
	Quantity	1	1	2	2	2
	Static pressure	0-20 (default)				
		Pa				
		20-40 (customized)				
Refrigerant	Type	R410A				
	Factory charging	10	10	12	15	16
Pipe connections	Liquid pipe	mm	mm	mm	mm	mm
	Gas pipe	mm	mm	mm	mm	mm
	Oil balance pipe	mm	mm	mm	mm	mm
Air flow rate	m³/h	11242	11242	13000	15620	15620
Sound pressure level	dB(A)	57	57	59	61	62
Net dimension (WxHxD)	mm	960x1615x765		1250x1615x765		
Packing size (WxHxD)	mm	1025x1790x830		1305x1790x820		
Net weight	kg	212	212	288	288	310
Gross weight	kg	227	227	308	308	330
Operating temperature range	°C	Cooling: -5-48; Heating: -20-24				



HP	20	22	24	26	28
Model MDV-	560(20)W/D2RN1(B)	615(22)W/D2RN1(B)	680(24)W/D2RN1(B)	730(26)W/D2RN1(B)	780(28)W/D2RN1(B)
Combined type	10HPx2	10HP+12HP	10HP+14HP	10HP+16HP	10HP+18HP
Power supply	V/Ph/Hz				
Cooling	Capacity	56.0	61.5	68.0	73.0
	Power input	14.11	15.85	18.35	20.29
	EER	3.97	3.88	3.71	3.60
Heating	Capacity	63.0	69.0	76.5	81.5
	Power input	15.11	16.55	18.75	20.34
	COP	4.17	4.17	4.08	4.01
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
Compressor	Max. quantity	33	36	39	43
	Type	DC inverter			
	Quantity	2	3	3	3
Fan motor	Type	DC motor			
	Quantity	2	3	3	3
Refrigerant	Type	R410A			
	Factory charging	10x2	10+12	10+15	10+16
Pipe connections	Liquid pipe	mm	mm	mm	mm
	Gas pipe	mm	mm	mm	mm
	Oil balance pipe	mm	mm	mm	mm
Air flow rate	m³/h	11242x2	11242+13000	11242+15620	11242+15620
Sound pressure level	dB(A)	62	63	63	63
Net dimension (WxHxD)	mm	(960x1615x765)x2		(960x1615x765)+(1250x1615x765)	
Packing size (WxHxD)	mm	(1025x1790x830)x2		(1025x1790x830)+(1305x1790x820)	
Net weight	kg	212x2	212+288	212+288	212+310
Gross weight	kg	227x2	227+308	227+308	227+330
Operating temperature range	°C	Cooling: -5-48; Heating: -20-24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

VRF V4 Plus S Series - Heat Pump



HP	30	32	34	36	38
Model MDV-	850(30)W/D2RN1(B)	900(32)W/D2RN1(B)	950(34)W/D2RN1(B)	1000(36)W/D2RN1(B)	1060(38)W/D2RN1(B)
Combined type	14HP+16HP	14HP+18HP	16HP+18HP	18HPx2	10HPx2+18HP
Power supply	V/Ph/Hz				
Cooling	Capacity	85.0	90.0	95.0	100.0
	Power input	24.53	26.09	28.03	29.59
	EER	3.46	3.45	3.39	3.38
Heating	Capacity	95.0	101.0	106.0	112.0
	Power input	23.98	25.59	27.18	28.79
	COP	3.96	3.95	3.90	3.89
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
Compressor	Max. quantity	50	53	56	59
	Type	DC inverter			
	Quantity	4	4	4	4
Fan motor	Type	DC motor			
	Quantity	4	4	4	4
Refrigerant	Type	R410A			
	Factory charging	15+15	15+16	15+16	16x2
Pipe connections	Liquid pipe	mm	mm	mm	mm
	Gas pipe	mm	mm	mm	mm
	Oil balance pipe	mm	mm	mm	mm
Air flow rate	m³/h	15620x2	15620x2	15620x2	15620x2
Sound pressure level	dB(A)	64	64	64	64
Net dimension (WxHxD)	mm	(1250x1615x765)x2			
Packing size (WxHxD)	mm	(1305x1790x820)x2			
Net weight	kg	288x2	288+310	288+310	310x2
Gross weight	kg	308x2	308+330	308+330	330x2
Operating temperature range	°C	Cooling: -5-48; Heating: -20-24			



HP	40	42	44	46	48
Model MDV-	1130(40)W/D2RN1(B)	1180(42)W/D2RN1(B)	1230(44)W/D2RN1(B)	1280(46)W/D2RN1(B)	1350(48)W/D2RN1(B)
Combined type	10HP+14HP+16HP	10HP+16HPx2	10HP+16HP+18HP	10HP+18HPx2	14HP+16HP+18HP
Power supply	V/Ph/Hz				
Cooling	Capacity	113.0	118.0	123.0	128.0
	Power input	31.59	33.52	35.08	36.64
	EER	3.58	3.52	3.51	3.49
Heating	Capacity	126.5	131.5	137.5	143.5
	Power input	31.54	33.13	34.74	36.35
	COP	4.01	3.97	3.96	3.95
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
Compressor	Max. quantity	64	64	64	64
	Type	DC inverter			
	Quantity	5	5	5	5
Fan motor	Type	DC motor			
	Quantity	5	5	5	5
Refrigerant	Type	R410A			
	Factory charging	10+15x2	10+15x2	10+15+16	10+16x2
Pipe connections	Liquid pipe	mm	mm	mm	mm
	Gas pipe	mm	mm	mm	mm
	Oil balance pipe	mm	mm	mm	mm
Air flow rate	m³/h	11242+15620x2			
Sound pressure level	dB(A)	65			
Net dimension (WxHxD)	mm	(960x1615x765)+(1250x1615x765)x2			
Packing size (WxHxD)	mm	(1025x1790x830)+(1305x1790x820)x2			
Net weight	kg	212+288x2	212+288x2	212+288+310	212+310x2
Gross weight	kg	227+308x2	227+308x2	227+308+330	227+330x2
Operating temperature range	°C	Cooling: -5-48; Heating: -20-24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

VRF V4 Plus S Series - Heat Pump



HP	50		52		54	
Model MDV-	1400(50)W/D2RN1(B)		1450(52)W/D2RN1(B)		1500(54)W/D2RN1(B)	
Combined type	14HP+18HPx2		16HP+18HPx2		18HPx3	
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	140.0	145.0	150.0	
	Power input	kW	40.89	42.82	44.38	
	EER		3.42	3.39	3.38	
Heating	Capacity	kW	157.0	162.0	168.0	
	Power input	kW	39.99	41.58	43.19	
	COP		3.93	3.90	3.89	
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Max. quantity	64				
Compressor	Type	DC inverter				
	Quantity	6				
Fan motor	Type	DC motor				
	Quantity	6				
Refrigerant	Type	R410A				
	Factory charging	kg	15+16x2	15+16x2	16x3	
Pipe connections	Liquid pipe	mm	Φ22.2			
	Gas pipe	mm	Φ41.2			
	Oil balance pipe	mm	Φ6			
Air flow rate	m³/h		15620x3			
Sound pressure level	dB(A)		66			
Net dimension (WxHxD)	mm		(1250x1615x765)x3			
Packing size (WxHxD)	mm		(1305x1790x820)x3			
Net weight	kg		288+310x2	288+310x2	310x3	
Gross weight	kg		308+330x2	308+330x2	330x3	
Operating temperature range	°C		Cooling: -5-48; Heating: -20-24			



HP	56		58		60	
Model MDV-	1560(56)W/D2RN1(B)		1630(58)W/D2RN1(B)		1680(60)W/D2RN1(B)	
Combined type	10HPx2+18HPx2		10HP+14HP+16HP+18HP		10HP+14HP+18HPx2	
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	156.0	163.0	168.0	
	Power input	kW	43.69	46.38	47.94	
	EER		3.57	3.51	3.50	
Heating	Capacity	kW	175.0	182.5	188.5	
	Power input	kW	43.90	45.93	47.54	
	COP		3.99	3.97	3.97	
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Max. quantity	64				
Compressor	Type	DC inverter				
	Quantity	6	7	7	7	
Fan motor	Type	DC motor				
	Quantity	6	7	7	7	
Refrigerant	Type	R410A				
	Factory charging	kg	10x2+16x2	10+15x2+16	10+15+16x2	
Pipe connections	Liquid pipe	mm	Φ22.2			
	Gas pipe	mm	Φ41.2			
	Oil balance pipe	mm	Φ6			
Air flow rate	m³/h		11242x2+15620x2	11242+15620x3	11242+15620x3	
Sound pressure level	dB(A)		66	67	67	
Net dimension (WxHxD)	mm		(960x1615x765)x2+(1250x1615x765)x2	(960x1615x765)+(1250x1615x765)x3		
Packing size (WxHxD)	mm		(1025x1790x830)x2+(1305x1790x820)x2	(1025x1790x830)+(1305x1790x820)x3		
Net weight	kg		212x2+310x2	212+288x2+310	212+288+310x2	
Gross weight	kg		227x2+330x2	227+308x2+330	227+308+330x2	
Operating temperature range	°C		Cooling: -5-48; Heating: -20-24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

VRF V4 Plus S Series - Heat Pump



HP	62		64		66	
Model MDV-	1730(62)W/D2RN1(B)		1780(64)W/D2RN1(B)		1850(66)W/D2RN1(B)	
Combined type	10HP+16HP+18HPx2		10HP+18HPx3		14HP+16HP+18HPx2	
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	173.0	178.0	185.0	
	Power input	kW	49.87	51.43	54.12	
	EER		3.47	3.46	3.42	
Heating	Capacity	kW	193.5	199.5	207.0	
	Power input	kW	49.13	50.74	52.77	
	COP		3.94	3.93	3.92	
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Max. quantity	64				
Compressor	Type	DC inverter				
	Quantity	7	7	8	8	
Fan motor	Type	DC motor				
	Quantity	7	7	8	8	
Refrigerant	Type	R410A				
	Factory charging	kg	10+15+16x2	10+16x3	15x2+16x2	
Pipe connections	Liquid pipe	mm	Φ22.2	Φ22.2	Φ25.4	
	Gas pipe	mm	Φ41.2	Φ41.2	Φ44.5	
	Oil balance pipe	mm	Φ6	Φ6	Φ6	
Air flow rate	m³/h		11242+15620x3	11242+15620x3	15620x4	
Sound pressure level	dB(A)		67	67	68	
Net dimension (WxHxD)	mm		(960x1615x765)+(1250x1615x765)x3			(1250x1615x765)x4
Packing size (WxHxD)	mm		(1025x1790x830)+(1305x1790x820)x3			(1305x1790x820)x4
Net weight	kg		212+288+310x2	212+310x3	288x2+310x2	
Gross weight	kg		227+308+330x2	227+330x3	308x2+330x2	
Operating temperature range	°C		Cooling: -5-48; Heating: -20-24			



HP	68		70		72	
Model MDV-	1900(68)W/D2RN1(B)		1950(70)W/D2RN1(B)		2000(72)W/D2RN1(B)	
Combined type	14HP+18HPx3		16HP+18HPx3		18HPx4	
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	190.0	195.0	200.0	
	Power input	kW	55.68	57.61	59.17	
	EER		3.41	3.38	3.38	
Heating	Capacity	kW	213.0	218.0	224.0	
	Power input	kW	54.38	55.98	57.58	
	COP		3.92	3.89	3.89	
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Max. quantity	64				
Compressor	Type	DC inverter				
	Quantity	8				
Fan motor	Type	DC motor				
	Quantity	8				
Refrigerant	Type	R410A				
	Factory charging	kg	15+16x3	15+16x3	16x4	
Pipe connections	Liquid pipe	mm	Φ25.4			
	Gas pipe	mm	Φ44.5			
	Oil balance pipe	mm	Φ6			
Air flow rate	m³/h		15620x4			
Sound pressure level	dB(A)		68			
Net dimension (WxHxD)	mm		(1250x1615x765)x4			
Packing size (WxHxD)	mm		(1305x1790x820)x4			
Net weight	kg		288+310x3	288+310x3	310x4	
Gross weight	kg		308+330x3	308+330x3	330x4	
Operating temperature range	°C		Cooling: -5-48; Heating: -20-24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

**Indoor Units**

VRF V4 Plus indoor units

**Ventilation**

Heat recovery ventilator (HRV)

**Control Systems**

Smart control systems



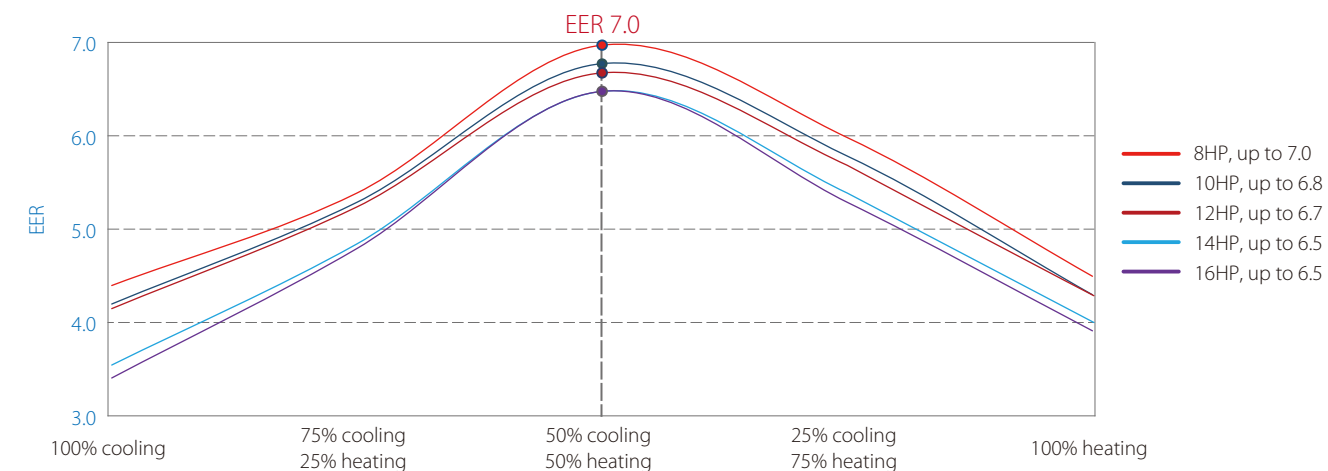
VRF V4 Plus R Series Heat Recovery

Offers simultaneous
cooling and
heating operation in
one system

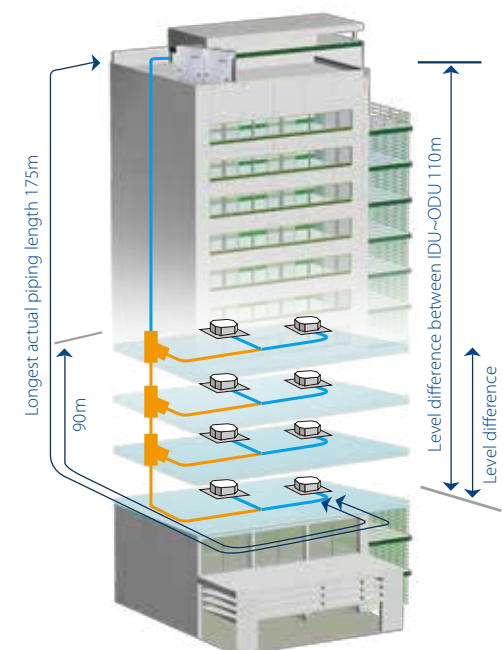
- » ALL DC inverter compressors
- » ALL DC fan motors
- » Capacity up to 64HP
- » Connectable indoor units quantity up to 64
- » ESP up to 60Pa
- » Cycle duty operation
- » Backup operation
- » Precise oil control technology
- » Advanced silence technology
- » Simple communication wiring
- » Remote addressing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

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).



Long Piping Length »

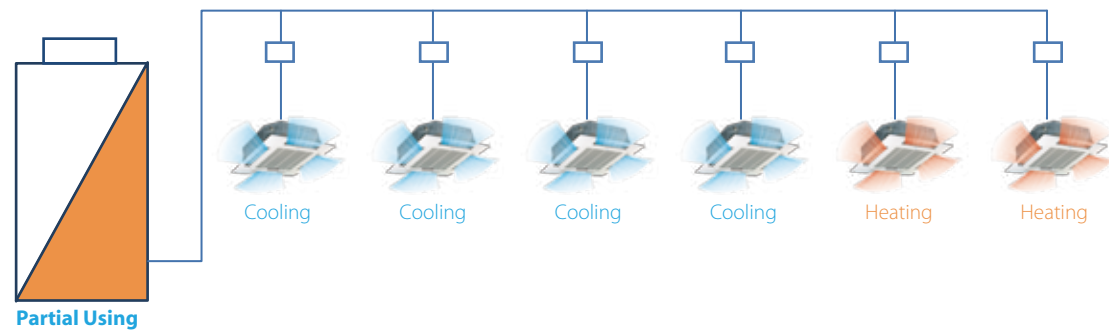


Total piping length	1000m
Longest length actual (Equivalent)	175(200)m
Longest length after first branch	90*m
Longest length from MS to its downstream indoor unit	40m
Level difference between indoor and outdoor units - ODU up (down)	70(110)m
Level difference between indoor units	30m

*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.

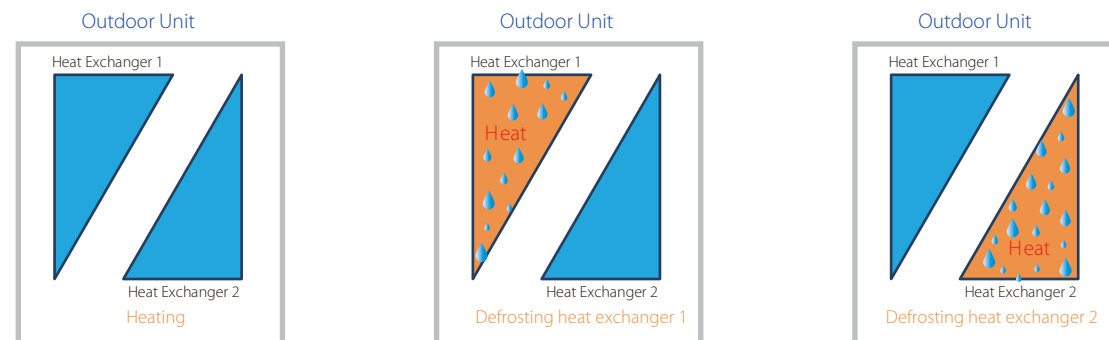
Adjustable Outdoor Heat Exchanger >>

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.



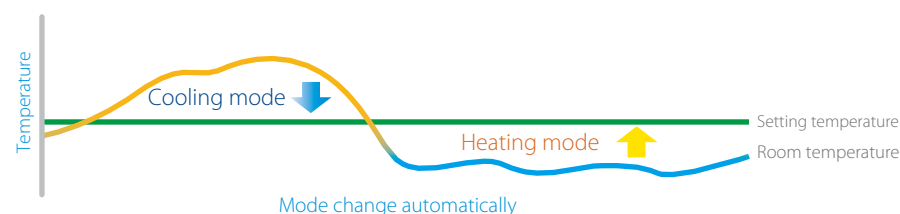
Continuous Heating During Defrost Operation >>

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.

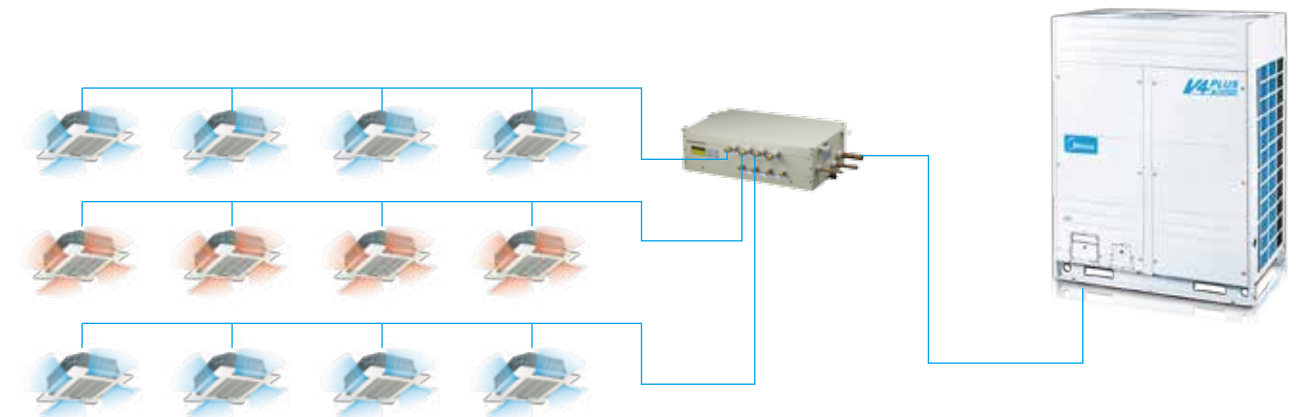
Innovative Mode Switch (MS) Box >>

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



HP			8	10	12	14	16
Model MDV-			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)
Power supply	V/Ph/Hz		380-415/3/50				
Cooling	Capacity	kW	25.2	28	33.5	40	45
	Power input	kW	5.73	6.67	8.07	11.3	13.24
	EER		4.4	4.2	4.15	3.54	3.4
Heating	Capacity	kW	27	31.5	37.5	45	50
	Power input	kW	6	7.33	8.72	11.19	12.79
	COP		4.5	4.3	4.3	4.02	3.91
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity				
Compressor	Max. quantity		13	16	20	23	26
	Type		DC inverter				
Fan motor	Quantity		1	1	1	2	2
	Type		DC motor				
	Quantity		2	2	2	2	2
Static pressure		Pa	0-20 (default)				
		Pa	20-60 (customized)				
			20-60 (customized)			20-40 (customized)	
Refrigerant	Type		R410A				
Pipe connections	Factory charging	kg	10	10	10	13	13
	Liquid pipe	mm	Φ9.53	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Low pressure gas pipe	mm	Φ22.2	Φ22.2	Φ25.4	Φ28.6	Φ28.6
	High pressure gas pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ22.2	Φ22.2
	High pressure gas balance pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1	Φ19.1
Oil balance pipe	mm	Φ6	Φ6	Φ6	Φ6	Φ6	
Air flow rate	m³/h		12000	12000	13000	15000	15000
Sound pressure level	dB(A)		57	57	58	60	60
Net dimension (W×H×D)	mm		1250×1615×765				
Packing size (W×H×D)	mm		1305×1790×820				
Net weight	kg		255	255	255	303	303
Gross weight	kg		273	273	273	322	322
Operating temperature range	°C		Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24				



HP			18	20	22	24
Model MDV-			532(18)W/D2RN1T(C)	560(20)W/D2RN1T(C)	615(22)W/D2RN1T(C)	680(24)W/D2RN1T(C)
Combined type			8HP+10HP	10HP×2	10HP+12HP	10HP+14HP
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	53.2	56	61.5	68
	Power input	kW	12.4	13.34	14.74	17.97
	EER		4.29	4.2	4.17	3.78
Heating	Capacity	kW	58.5	63	69	76.5
	Power input	kW	13.33	14.66	16.05	18.52
	COP		4.39	4.3	4.3	4.13
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
Compressor	Max. quantity		29	33	36	39
	Type		DC inverter			
Fan motor	Quantity		2	2	2	3
	Type		DC motor			
Refrigerant	Quantity		4	4	4	4
	Type		R410A			
Pipe connections	Factory charging	kg	10×2	10×2	10×2	10+13
	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Low pressure gas pipe	mm	Φ31.8	Φ31.8	Φ31.8	Φ34.9
	High pressure gas pipe	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
	High pressure gas balance pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
Oil balance pipe	mm		Φ6	Φ6	Φ6	Φ6
Air flow rate	m³/h		24000	24000	25000	27000
Sound pressure level	dB(A)		61	61	62	63
Net dimension (W×H×D)	mm		(1250×1615×765)×2			
Packing size (W×H×D)	mm		(1305×1790×820)×2			
Net weight	kg		255×2	255×2	255×2	255+303
Gross weight	kg		273×2	273×2	273×2	273+322
Operating temperature range	°C		Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

VRF V4 Plus R Series - Heat Recovery



HP			26	28	30	32
Model MDV-			730(26)W/D2RN1T(C)	800(28)W/D2RN1T(C)	850(30)W/D2RN1T(C)	900(32)W/D2RN1T(C)
Combined type			10HP+16HP	14HP×2	14HP+16HP	16HP×2
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	73	80	85	90
	Power input	kW	19.9	22.6	24.54	26.48
	EER		3.67	3.54	3.46	3.4
Heating	Capacity	kW	81.5	90	95	100
	Power input	kW	20.1	22.4	23.98	25.58
	COP		4.05	4.02	3.96	3.91
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
Compressor	Max. quantity		43	46	50	53
	Type		DC inverter			
Fan motor	Quantity		3	4	4	4
	Type		DC motor			
Refrigerant	Quantity		4	4	4	4
	Type		R410A			
Pipe connections	Factory charging	kg	10+13	13×2	13×2	13×2
	Liquid pipe	mm	Φ19.1			
	Low pressure gas pipe	mm	Φ34.9			
	High pressure gas pipe	mm	Φ28.6			
	High pressure gas balance pipe	mm	Φ19.1			
Oil balance pipe	mm		Φ6			
Air flow rate	m³/h		27000	30000	30000	30000
Sound pressure level	dB(A)		63	64	64	64
Net dimension (W×H×D)	mm		(1250×1615×765)×2			
Packing size (W×H×D)	mm		(1305×1790×820)×2			
Net weight	kg		255+303	303×2	303×2	303×2
Gross weight	kg		273+322	322×2	322×2	322×2
Operating temperature range	°C		Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24			



HP			34	36	38	40
Model MDV-			960(34)W/D2RN1T(C)	1010(36)W/D2RN1T(C)	1065(38)W/D2RN1T(C)	1130(40)W/D2RN1T(C)
Combined type			10HP×2+14HP	10HP×2+16HP	10HP+12HP+16HP	10HP+14HP+16HP
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	96	101	106.5	113
	Power input	kW	24.64	26.58	27.98	31.21
	EER		3.9	3.8	3.81	3.62
Heating	Capacity	kW	108	113	119	126.5
	Power input	kW	25.85	27.45	28.84	31.31
	COP		4.18	4.12	4.13	4.04
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
Compressor	Max. quantity		56	59	63	64
	Type		DC inverter			
Fan motor	Quantity		4	4	4	5
	Type		DC motor			
Refrigerant	Quantity		6	6	6	6
	Type		R410A			
Pipe connections	Factory charging	kg	10×2+13	10×2+13	10×2+13	10+13×2
	Liquid pipe	mm	Φ19.1			
	Low pressure gas pipe	mm	Φ41.3			
	High pressure gas pipe	mm	Φ34.9			
	High pressure gas balance pipe	mm	Φ19.1			
Oil balance pipe	mm		Φ6			
Air flow rate	m³/h		39000	39000	40000	42000
Sound pressure level	dB(A)		65	65	65	66
Net dimension (W×H×D)	mm		(1250×1615×765)×3			
Packing size (W×H×D)	mm		(1305×1790×820)×3			
Net weight	kg		255×2+303	255×2+303	255×2+303	255+303×2
Gross weight	kg		273×2+322	273×2+322	273×2+322	273+322×2
Operating temperature range	°C		Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

VRF V4 Plus R Series - Heat Recovery



HP			42	44	46	48
Model MDV-			1200(42)W/D2RN1T(C)	1250(44)W/D2RN1T(C)	1300(46)W/D2RN1T(C)	1350(48)W/D2RN1T(C)
Combined type			14HP×3	14HP×2+16HP	14HP+16HP×2	16HP×3
Power supply	V/Ph/Hz	380-415/3/50				
Cooling	Capacity	kW	120	125	130	135
	Power input	kW	33.9	35.84	37.78	39.72
	EER		3.54	3.49	3.44	3.4
Heating	Capacity	kW	135	140	145	150
	Power input	kW	33.57	35.17	36.77	38.37
	COP		4.02	3.98	3.94	3.91
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
Compressor	Max. quantity	64				
	Type	DC inverter				
Fan motor	Quantity	6				
	Type	DC motor				
Refrigerant	Quantity	6				
	Type	R410A				
Pipe connections	Factory charging	kg	13×3			
	Liquid pipe	mm	Φ19.1			
	Low pressure gas pipe	mm	Φ41.3			
	High pressure gas pipe	mm	Φ34.9			
	High pressure gas balance pipe	mm	Φ19.1			
	Oil balance pipe	mm	Φ6			
Air flow rate	m³/h		45000			
Sound pressure level	dB(A)		67			
Net dimension (W×H×D)	mm		(1250×1615×765)×3			
Packing size (W×H×D)	mm		(1305×1790×820)×3			
Net weight	kg		303×3			
Gross weight	kg		322×3			
Operating temperature range	℃		Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24			



HP			50	52	54	56
Model MDV-			1432(50)W/D2RN1T(C)	1460(52)W/D2RN1T(C)	1515(54)W/D2RN1T(C)	1580(56)W/D2RN1T(C)
Combined type			8HP+10HP+16HP×2	10HP×2+16HP×2	10HP+12HP+16HP×2	10HP+14HP+16HP×2
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	143.2	146	151.5	158
	Power input	kW	38.88	39.82	41.22	44.45
	EER		3.68	3.67	3.68	3.55
Heating	Capacity	kW	158.5	163	169	176.5
	Power input	kW	38.91	40.24	41.63	44.1
	COP		4.07	4.05	4.06	4
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
Compressor	Max. quantity		64	64	64	64
	Type		DC inverter			
Fan motor	Quantity		6	6	6	7
	Type		DC motor			
Refrigerant	Quantity		8	8	8	8
	Type		R410A			
Pipe connections	Factory charging	kg	10×2+13×2	10×2+13×2	10×2+13×2	10+13×3
	Liquid pipe	mm	Φ22.2			
	Low pressure gas pipe	mm	Φ44.5			
	High pressure gas pipe	mm	Φ38.1			
	High pressure gas balance pipe	mm	Φ19.1			
	Oil balance pipe	mm	Φ6			
Air flow rate	m³/h		54000	54000	55000	57000
Sound pressure level	dB(A)		68			
Net dimension (W×H×D)	mm		(1250×1615×765)×4			
Packing size (W×H×D)	mm		(1305×1790×820)×4			
Net weight	kg		255×2+303×2	255×2+303×2	255×2+303×3	255+303×3
Gross weight	kg		273×2+322×2	273×2+322×2	273×2+322×2	273+322×3
Operating temperature range	°C		Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

VRF V4 Plus R Series - Heat Recovery



HP			58	60	62	64
Model MDV-			1650(58)W/D2RN1T(C)	1700(60)W/D2RN1T(C)	1750(62)W/D2RN1T(C)	1800(64)W/D2RN1T(C)
Combined type			14HP×3+16HP	14HP×2+16HP×2	14HP+16HP×3	16HP×4
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	165	170	175	180
	Power input	kW	47.14	49.08	51.02	52.96
	EER		3.5	3.46	3.43	3.4
Heating	Capacity	kW	185	190	195	200
	Power input	kW	46.36	47.96	49.56	51.16
	COP		3.99	3.96	3.93	3.91
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
	Max. quantity		64			
Compressor	Type		DC inverter			
	Quantity		8			
Fan motor	Type		DC motor			
	Quantity		8			
Refrigerant	Type		R410A			
	Factory charging	kg	13×4			
Pipe connections	Liquid pipe	mm	Φ22.2			
	Low pressure gas pipe	mm	Φ44.5			
	High pressure gas pipe	mm	Φ38.1			
	High pressure gas balance pipe	mm	Φ19.1			
	Oil balance pipe	mm	Φ6			
Air flow rate	m³/h		60000			
Sound pressure level	dB(A)		69			
Net dimension (W×H×D)	mm		(1250×1615×765)×4			
Packing size (W×H×D)	mm		(1305×1790×820)×4			
Net weight	kg		303×4			
Gross weight	kg		322×4			
Operating temperature range	°C		Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24			

VRF V4 Plus R Series - MS Box



Model				MS01/N1-C	MS02/N1-C	MS04/N1-C	MS06/N1-C	MS02E/N1-C	MS04E/N1-C
Applicable indoor units				All VRF indoor units except high static pressure duct				Only high static pressure duct	
Max. indoor unit groups				1	2	4	6	1	1
Max. number of each group of indoor units				4	4	4	4	1	1
Max. number of downstream indoor units				4	8	16	24	1	1
Max. capacity of each group of indoor units			kW	16	16	16	16	20/25/28	40/45/56
Max. total capacity of all downstream indoor units			kW	16	28	45	45	20-28	40-56
Piping connections	Connected to outdoor unit	Liquid pipe	mm	Φ9.53	Φ12.7	Φ15.9	Φ15.9	Φ12.7	Φ15.9
		High pressure gas pipe	mm	Φ15.9	Φ19.1	Φ22.2	Φ22.2	Φ19.1	Φ22.2
		Low pressure gas pipe	mm	Φ19.1	Φ25.4	Φ31.8	Φ31.8	Φ25.4	Φ31.8
	Connected to indoor unit	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Sound pressure level			dB(A)	33	33	33	40	33	33
Net dimension (W×H×D)			mm	630×225×600	630×225×600	960×225×600	960×225×600	630×225×600	960×225×600
Packing size (W×H×D)			mm	725×325×685	725×325×685	1055×325×685	1055×325×685	725×325×685	1055×325×685
Net weight			kg	18	19.5	31	35	19.5	31
Gross weight			kg	25	27	40	44.5	27	40

**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 »

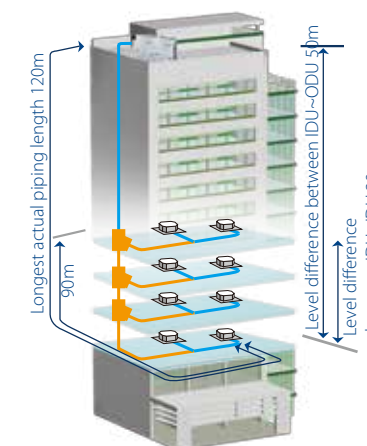
The Water Cooled V4+W Series capacity ranges from 8HP to 36HP, meets all customer requirements from small to large buildings.

8/10/12HP

Max. 3 units combination



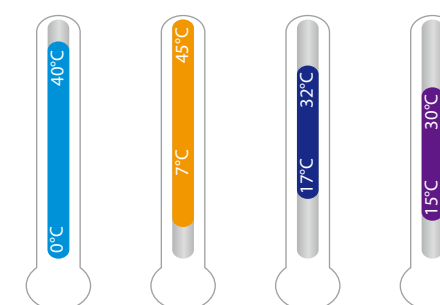
Long Piping Length »



Total piping length	300m
Longest length actual (Equivalent)	120(150)m
Longest length after first branch	90*m
Level difference between indoor and outdoor units - ODU up (down)	50(40)m
Level difference between indoor units	30m

*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.

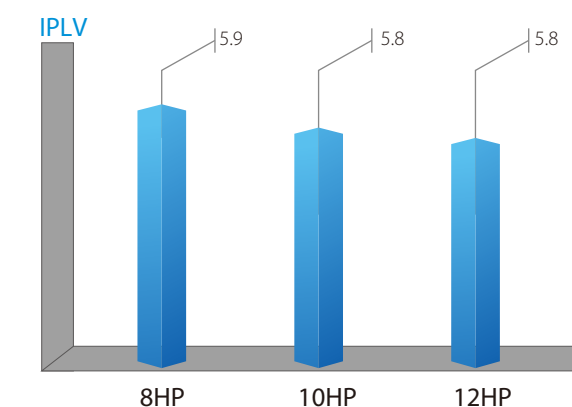
Wide Operation Temperature Range »



- 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.



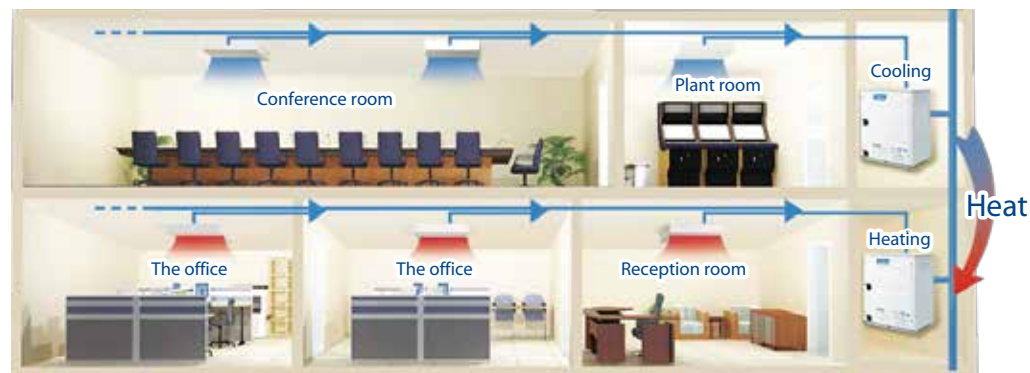
High Efficiency Double-Pipe Heat Exchanger »

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.



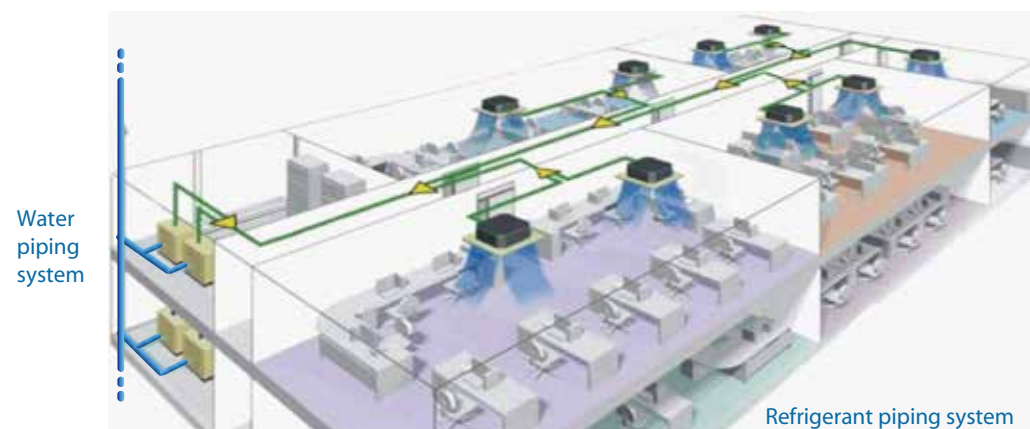
Water Side Heat Recovery Function »

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/DRN1	280(10)W/DRN1	335(12)W/DRN1	504(16)W/DRN1	532(18)W/DRN1	560(20)W/DRN1	615(22)W/DRN1
Combined type		/	/	/	8HPx2	8HP+10HP	10HPx2	10HP+12HP
Power supply	V/Ph/Hz	380-415/3/50						
Cooling	Capacity	kW	25.2	28.0	33.5	50.4	53.2	56.0
	Power input	kW	4.80	6.10	8.00	9.60	10.90	14.10
	EER		5.25	4.59	4.19	5.25	4.88	4.36
Heating	Capacity	kW	27.0	31.5	37.5	54.0	58.5	63.0
	Power input	kW	4.45	5.83	7.80	8.90	10.3	11.66
	COP		6.07	5.40	4.81	6.07	5.69	5.40
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity						
	Max. quantity	13	16	19	23	29	33	36
Compressor	Type	DC inverter						
	Quantity	1	1	1	2	2	2	2
Heat exchanger	Type	Double-pipe heat exchanger						
	Rated water flow volume	m³/h	5.4	6	7.2	5.4x2	5.4+6	6x2
Refrigerant	Type	R410A						
	Factory charging	kg	2	2	2	2x2	2x2	2x2
	Liquid pipe	mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Pipe connections	Gas pipe	mm	Φ22.2	Φ22.2	Φ25.4	Φ28.6	Φ28.6	Φ28.6
	Oil balance pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Sound pressure level	dB(A)	51	52	52	53	53	53	54
Net dimension (WxHxD)	mm	780x1000x550						
Packing size (WxHxD)	mm	845x1170x600						
Net weight	kg	146	146	147	146x2	146x2	146x2	146+147
Gross weight	kg	155	155	156	155x2	155x2	155x2	155+156
Operating temperature range	°C	Water inlet temp.: 7-45; ambient temp.: 0-40						



HP		24	26	28	30	32	34	36
Model MDVS-		670(24)W/DRN1	784(26)W/DRN1	812(28)W/DRN1	840(30)W/DRN1	895(32)W/DRN1	950(34)W/DRN1	1005(36)W/DRN1
Combined type		12HPx2	8HPx2+10HP	8HP+10HPx2	10HPx3	10HPx2+12HP	10HP+12HPx2	12HPx3
Power supply	V/Ph/Hz	380-415/3/50						
Cooling	Capacity	kW	67.0	78.4	81.2	84.0	89.5	100.5
	Power input	kW	16.0	15.7	17.0	18.3	20.2	22.1
	EER		4.19	4.99	4.78	4.59	4.43	4.30
Heating	Capacity	kW	75.0	85.5	90.0	94.5	100.5	112.5
	Power input	kW	15.6	14.73	16.11	17.49	19.46	21.43
	COP		4.81	5.80	5.59	5.40	5.16	4.97
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity						
	Max. quantity	39	43	46	50	53	56	59
Compressor	Type	DC inverter						
	Quantity	2	3	3	3	3	3	3
Heat exchanger	Type	Double-pipe heat exchanger						
	Rated water flow volume	m³/h	7.2x2	5.4x2+6	5.4+6x2	6x3	6x2+7.2	6+7.2x2
Refrigerant	Type	R410A						
	Factory charging	kg	2x2	2x3	2x3	2x3	2x3	2x3
	Liquid pipe	mm	Φ15.9	Φ19.1	Φ19.1	Φ19.1	Φ19.1	Φ19.1
Pipe connections	Gas pipe	mm	Φ28.6	Φ31.8	Φ31.8	Φ31.8	Φ31.8	Φ38.1
	Oil balance pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Sound pressure level	dB(A)	54	55	55	56	57	57	58
Net dimension (WxHxD)	mm	(780x1000x550)x2						
Packing size (WxHxD)	mm	(845x1170x600)x2						
Net weight	kg	147x2	146x3	146x3	146x3	146x2+147	146+147x2	147x3
Gross weight	kg	156x2	155x3	155x3	155x3	155x2+156	155+156x2	156x3
Operating temperature range	°C	Water inlet temp.: 7-45; ambient temp.: 0-40						

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Main unit ambient temperature 35°C DB/24°C WB; Water inlet temperature 30°C;

Heating: Indoor temperature 20°C DB/15°C WB; Main unit ambient temperature 7°C DB/6°C WB; Water inlet temperature 20°C;

Piping length: Interconnecting piping length is 5m, 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. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1m 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 I Series Heat Pump

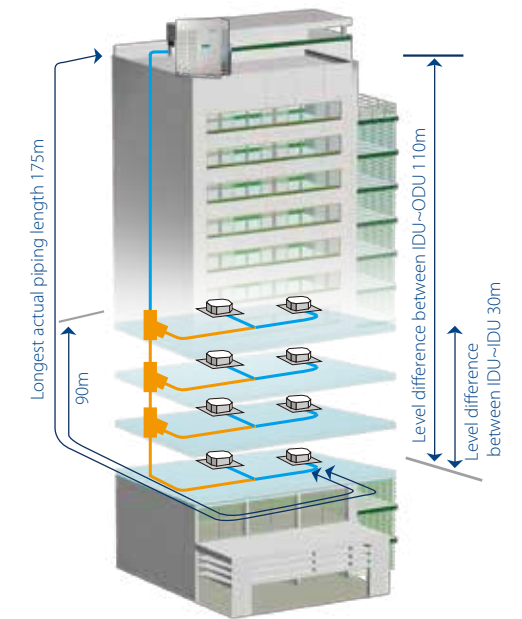
Optimized design
for middle-sized
buildings

- » DC inverter compressor
- » DC fan motor
- » Capacity up to 32HP
- » Connectable indoor units quantity up to 53
- » ESP up to 40Pa
- » Precise oil control technology
- » Advanced silence technology
- » Intelligent defrosting technology
- » Simple communication wiring
- » Auto addressing
- » Easy maintenance

Long Piping Length »

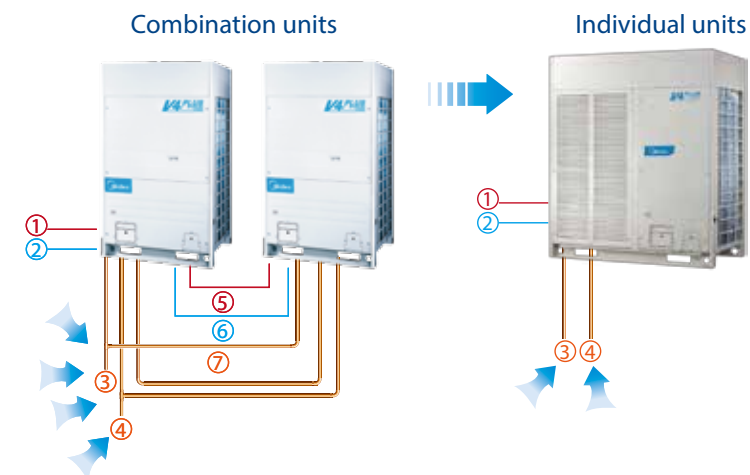
	20-26kW	40-45kW	56-67kW	73-90kW
Total piping length	120m	250m	1000m	1000m
Longest length actual (Equivalent)	60(70)m	100(120)m	175(200)m	165(190)m
Longest length after first branch	20m	40m	90*m	90*m
Level difference between indoor and outdoor units - ODU up (down)	30(20)m	30(20)m	70(110)m	50(90)m
Level difference between indoor units	8m	8m	30m	30m

*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.



Integrated Design, Easy Installation and Less Leakage Possibility »

- ❖ Compare with combination units, the individual units don't need complicated piping and wiring at the jobsite. It eliminates the communication wire, power wire, oil balance pipe, and refrigerant distributors between units.
- ❖ There are more brazing joints in the combination system, therefore vapor and moisture can easily enter the system. Thanks to reduced joints in the individual system, it minimizes the possibility of moisture entering the system.



- ① Power and grounding wire
- ② Communication wire
- ③ Main gas pipe
- ④ Main liquid pipe
- ⑤ Power and grounding wire
- ⑥ Communication wire
- ⑦ Oil balance pipe

VRF V4 Plus I Series - Heat Pump



HP			7	8	10	14	16
Model MDV-			V200W/DRN1	V224W/DRN1	V260W/DRN1	V400W/DRN1	V450W/DRN1
Power supply		V/Ph/Hz	380-415/3/50				
Cooling	Capacity	kW	20.0	22.4	26.0	40.0	45.0
	Power input	kW	6.1	6.8	7.6	11.9	13.6
	EER		3.28	3.29	3.42	3.35	3.32
Heating	Capacity	kW	22.0	24.5	28.5	45.0	50.0
	Power input	kW	6.1	5.9	6.8	11.1	12.7
	COP		3.61	4.15	4.19	4.05	3.93
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity				
	Max. quantity		10	11	12	14	15
Compressor	Type		DC inverter				
	Quantity		1	1	1	2	2
Fan motor	Type		DC motor +AC motor				
	Quantity		2	2	2	2	2
Refrigerant	Type		R410A				
	Factory charging	kg	4.8	6.2	6.2	9	12
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7
	Gas pipe	mm	Φ19.1	Φ19.1	Φ22.2	Φ22.2	Φ25.4
Air flow rate		m³/h	10999	10494	10494	16575	16575
Sound pressure level		dB(A)	59	59	60	62	62
Net dimension (WxHxD)		mm	1120x1558x528			1360x1650x540	1460x1650x540
Packing size (WxHxD)		mm	1270x1720x565			1450x1785x560	1550x1785x560
Net weight		kg	137	146.5	147	240	275
Gross weight		kg	153	162.5	163	260	290
Operating temperature range		°C	Cooling: -5~48; Heating: -15~24				



HP			8	10	12	14
Model MDV-			252W/DRN1-i(B)	280W/DRN1-i(B)	335W/DRN1-i(B)	400W/DRN1-i(B)
Power supply		V/Ph/Hz	380-415/3/50			
Cooling	Capacity	kW	25.2	28.0	33.5	40.0
	Power input	kW	5.9	7.2	9.1	12.3
	EER		4.29	3.89	3.7	3.25
Heating	Capacity	kW	27.0	31.5	37.5	45.0
	Power input	kW	6.2	7.6	9.0	11.2
	COP		4.39	4.14	4.17	4.02
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
	Max. quantity		13	16	16	16
Compressor	Type		DC inverter		DC inverter+Fixed	
	Quantity		1	1	2	3
Fan motor	Type		DC motor			
	Quantity		1	1	2	2
	Max Static Pressure	Pa	20 (default)			
		Pa	40 (customized)			
Refrigerant	Type		R410A			
	Factory charging	kg	10	10	12	15
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Gas pipe	mm	Φ25.4	Φ25.4	Φ31.8	Φ31.8
Air flow rate		m³/h	11000	11000	15000	15000
Sound pressure level		dB(A)	57	57	58	60
Net dimension (WxHxD)		mm	960x1615x765		1250x1615x765	
Packing size (WxHxD)		mm	1025x1790x830		1305x1790x820	
Net weight		kg	205		275	325
Gross weight		kg	220		295	345
Operating temperature range		°C	Cooling: -5~48; Heating: -15~24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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

VRF V4 Plus I Series - Heat Pump



HP			16	20	22	24
Model MDV-			450W/DRN1-i(B)	560W/DRN1-i(C)	615W/DRN1-i(C)	670W/DRN1-i(C)
Power supply		V/Ph/Hz	380-415/3/50			
Cooling	Capacity	kW	45.0	56.0	61.5	67.0
	Power input	kW	14	17	18.8	20.8
	EER		3.21	3.3	3.27	3.22
Heating	Capacity	kW	50.0	63.0	69.0	75.0
	Power input	kW	12.8	16	17.9	19.8
	COP		3.91	3.94	3.86	3.79
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
	Max. quantity		20	33	36	39
Compressor	Type		DC inverter+Fixed			
	Quantity		3	3	3	3
Fan motor	Type		DC motor			
	Quantity		2	2	2	2
	Max Static Pressure	Pa	20 (default)			
		Pa	40 (customized)			
Refrigerant	Type		R410A			
	Factory charging	kg	15	17	18.5	18.5
Pipe connections	Liquid pipe	mm	Φ15.9	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8	Φ31.8
Air flow rate		m³/h	15000	20000	23000	23000
Sound pressure level		dB(A)	60	62	63	63
Net dimension (WxHxD)		mm	1250x1615x765	1390x1615x765	1585x1615x765	
Packing size (WxHxD)		mm	1305x1790x820	1455x1790x830	1650x1810x840	
Net weight		kg	325	360	385	390
Gross weight		kg	345	375	400	405
Operating temperature range		°C	Cooling: -5~48; Heating: -15~24			



HP			26	28	30	32
Model MDV-			730W/DRN1-i(C)	785W/DRN1-i(C)	850W/DRN1-i(C)	900W/DRN1-i(C)
Power supply		V/Ph/Hz	380-415/3/50			
Cooling	Capacity	kW	73.0	78.5	85.0	90.0
	Power input	kW	22.3	24.2	28.3	28.5
	EER		3.27	3.24	3	3.16
Heating	Capacity	kW	81.5	87.5	95.0	100.0
	Power input	kW	20.6	22.4	26.0	26.5
	COP		3.96	3.91	3.65	3.77
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
	Max. quantity		43	46	50	53
Compressor	Type		DC inverter+Fixed			
	Quantity		3	3	4	5
Fan motor	Type		AC motor			
	Quantity		4	4	4	4
	Max Static Pressure	Pa	20 (default)			
Pa		40 (customized)				
Refrigerant	Type		R410A			
	Factory charging	kg	27	27	27	27
Pipe connections	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Air flow rate	m³/h		33100	33100	33100	33100
Sound pressure level	dB(A)		64	64	65	65
Net dimension (WxHxD)		mm	2540x1615x765			
Packing size (WxHxD)		mm	2600x1800x825			
Net weight		kg	555		600	
Gross weight		kg	590		635	
Operating temperature range		°C	Cooling: -5~48; Heating: -15~24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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

**Indoor Units**

VRF V4 Plus indoor units

**Ventilation**

Heat recovery ventilator (HRV)

**Control Systems**

Smart control systems

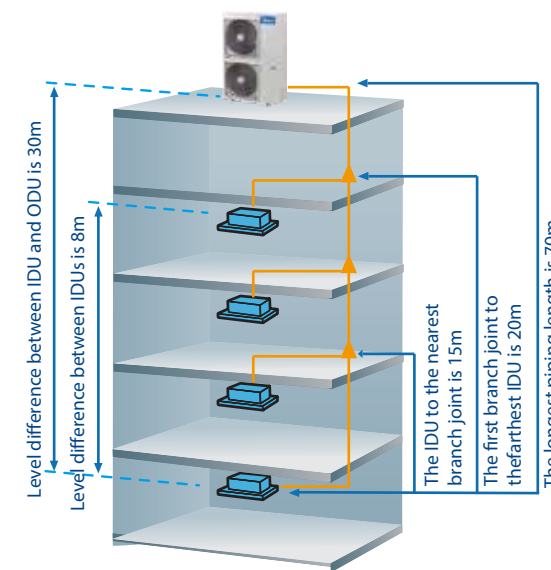


VRF V4 Plus Mini Series Heat Pump

Optimized design
for small buildings

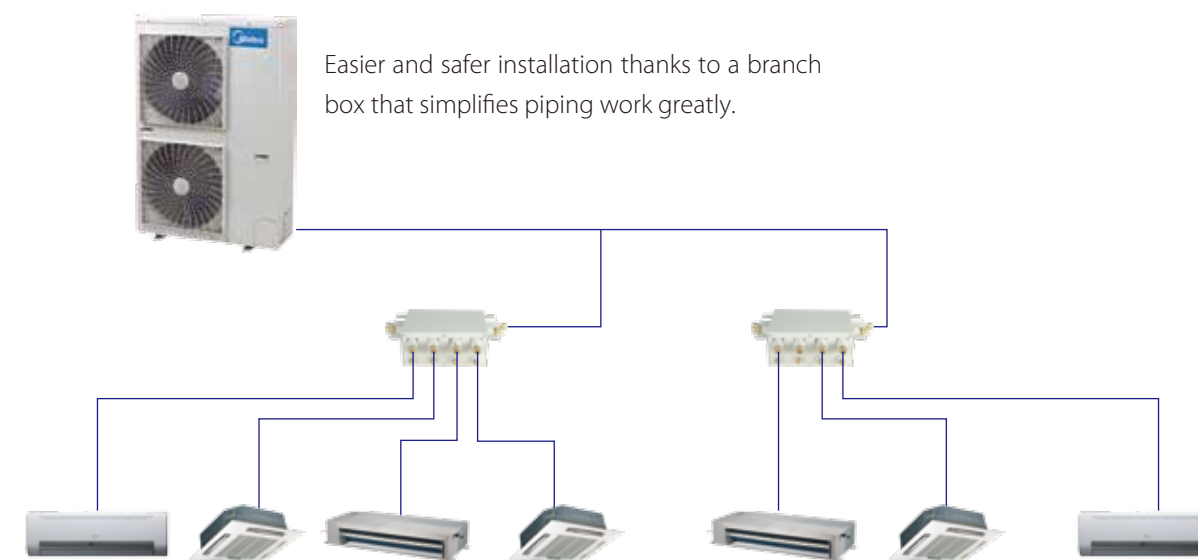
- » DC inverter compressor
- » DC fan motor
- » Capacity up to 18kW
- » Connectable indoor units quantity up to 9
- » Precise oil control technology
- » Advanced silence technology
- » Intelligent defrosting technology
- » Simple communication wiring
- » Auto addressing
- » Easy maintenance

Long Piping Length »

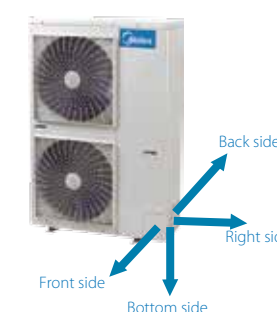


	8-10.5kW	12-18kW
Total piping length	100m	100m
Longest length actual (Equivalent)	45(50)m	60(70)m
Longest length after first branch	20m	20m
Level difference between indoor and outdoor units - ODU up (down)	30(20)m	30(20)m
Level difference between indoor units	8m	8m

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			3	4	4.5	5	6
Model MDV-			V80W/DN1	V105W/DN1	V120W/DN1	V140W/DN1	V160W/DN1(B)
Power supply		V/Ph/Hz	220-240/1/50				
Cooling	Capacity	kW	8	10.5	12.3	14	15.5
	Power input	kW	2.05	2.68	3.25	3.95	4.52
	EER		3.9	3.92	3.78	3.54	3.43
Heating	Capacity	kW	9	11.5	13.2	15.4	17
	Power input	kW	2.24	2.9	3.47	4.16	4.77
	COP		4.02	3.97	3.8	3.7	3.56
Connectable	Total capacity		45~130% of outdoor unit capacity				
indoor unit	Max. quantity		4	5	6	6	7
Compressor	Type		Rotary				
	Quantity		1	1	1	1	1
Fan motor	Type		DC Motor				
	Quantity		1	1	2	2	2
Refrigerant	Type		R410A				
	Factory charging	kg	2.8	2.95	3.3	3.9	3.9
Pipe	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
connections	Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.1
Air flow rate		m³/h	5500	5500	6000	6000	6000
Sound pressure level		dB(A)	56	57	57	57	57
Net dimension (W×H×D)		mm	1075×966×396			900×1327×400	
Packing size (W×H×D)		mm	1120×1100×435			1030×1456×435	
Net weight		kg	62	74	95		100
Gross weight		kg	67	81	106		111
Operating temperature range		℃	Cooling: -15~43; Heating: -15~27				

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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

VRF V4 Plus Mini Series - Heat Pump



HP			4.5	5	6	6.5
Model MDV-			V120W/DRN1	V140W/DRN1	V160W/DRN1	V180W/DRN1
Power supply		V/Ph/Hz	380-415/3/50			
Cooling	Capacity	kW	12.3	14	15.5	17.5
	Power input	kW	3.25	3.95	4.52	5.3
	EER		3.78	3.54	3.43	3.3
Heating	Capacity	kW	13.2	15.4	17	19
	Power input	kW	3.47	4.16	4.77	5
	COP		3.8	3.7	3.56	3.8
Connectable	Total capacity		45~130% of outdoor unit capacity			
indoor unit	Max. quantity		6	6	7	9
Compressor	Type		Rotary			
	Quantity		1	1	1	1
Fan motor	Type		DC motor			
	Quantity		2	2	2	2
Refrigerant	Type		R410A			
	Factory charging	kg	3.3	3.9	3.9	4.5
Pipe	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
connections	Gas pipe	mm	Φ15.9	Φ15.9	Φ19.1	Φ19.1
Air flow rate		m³/h	6000	6000	6000	6800
Sound pressure level		dB(A)	57	57	57	59
Net dimension (W×H×D)		mm	900×1327×400			
Packing size (W×H×D)		mm	1030×1456×435			
Net weight		kg	95		102	107
Gross weight		kg	106		113	118
Operating temperature range		°C	Cooling: -15~43; Heating: -15~27			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

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

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



» INDOOR UNITS

One-way Cassette
Two-way Cassette
Compact Four-way Cassette
Four-way Cassette
Low Static Pressure Duct
Medium Static Pressure Duct (A5 type)

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

Cassette Series



One-way Cassette



Two-way Cassette



Compact Four-way Cassette



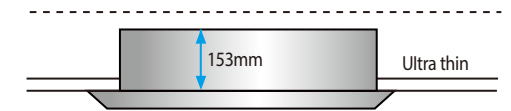
Four-way Cassette



One-way Cassette

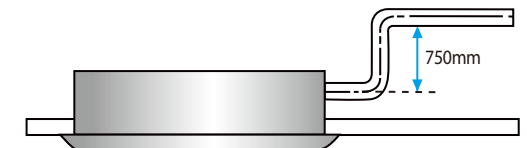
Min. 153mm Thickness >>

Compact design, ultra slim body with a minimum thickness of 153mm for models 18-36 and 189mm for models 45-71, especially suitable for narrow ceiling, such as in lobbies and small meeting rooms.



High-lift Pump >>

Standard built-in drain pump with 750mm pumphead.



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/N1-D	MDV-D22Q1/N1-D	MDV-D28Q1/N1-D	MDV-D36Q1/N1-D	MDV-D45Q1/N1-D	MDV-D56Q1/N1-D	MDV-D71Q1/N1-D
Power supply			1-phase, 220-240V, 50Hz						
Capacity	Cooling	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	41	41	41	41	48	48	60
	Heating	W	41	41	41	41	43	44	55
Airflow rate(H/W/L)		m³/h	523/404/275	523/404/275	573/456/315	573/456/315	693/600/476	792/688/549	933/749/592
Sound pressure level(H/W/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.(W×H×D)	mm	1054×153×425	1054×153×425	1054×153×425	1054×153×425	1275×189×450	1275×189×450	1275×189×450
	Packing dim.(W×H×D)	mm	1155×245×490	1155×245×490	1155×245×490	1155×245×490	1370×295×505	1370×295×505	1370×295×505
	Net/gross weight	kg	12.5/16	12.5/16	13/16.5	13/16.5	18.5/22.8	18.8/23.1	19.5/23.8
Panel	Net dim.(W×H×D)	mm	1180×25×465	1180×25×465	1180×25×465	1180×25×465	1350×25×505	1350×25×505	1350×25×505
	Packing dim.(W×H×D)	mm	1232×107×517	1232×107×517	1232×107×517	1232×107×517	1410×95×560	1410×95×560	1410×95×560
	Net/gross weight	kg	3.5/5.2	3.5/5.2	3.5/5.2	3.5/5.2	4/5.4	4/5.4	4/5.4
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller RM05/BG(T)E-A						

Notes:

- Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent ref. piping: 8m(horizontal).
- Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 8m(horizontal).
- Sound level is measured at 1.4m below the unit.



Auto Restart Function



Auto Addressing



Fresh Air



Auto Defrosting



Easy-cleaning Panel



Follow Me



Anti-cold Air Function



Built-in Drain Pump



LED Display



Built-in Filter



Independent Dehumidification



Timer



Auto Swing



Wired Controller

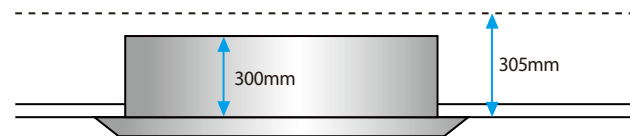
Two-way Cassette

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 suits any room's decor and ambience. At only 300mm high, the unit requires only a small space in suspended ceilings. Installation has no height limitations, which means overall design features much more flexibility.



High-lift Pump >>

Standard built-in drain pump with 750mm pump head (higher pump head 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/N1	MDV-D28Q2/N1	MDV-D36Q2/N1	MDV-D45Q2/N1	MDV-D56Q2/N1	MDV-D71Q2/N1
Power supply			1-phase,220-240V,50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.6	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	57	57	60	92	108	154
	Heating	W	57	57	60	92	108	154
Airflow rate(H/M/L)		m³/h	654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1,200/1,000/770
Sound pressure level(H/M/L)		dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34
Main body	Net dim.(W×H×D)	mm	1172×299×591	1172×299×591	1172×299×591	1172×299×591	1172×299×591	1172×299×591
	Packing dim.(W×H×D)	mm	1355×400×675	1355×400×675	1355×400×675	1355×400×675	1355×400×675	1355×400×675
	Net/gross weight	kg	34/42.5	34/42.5	34/42.5	36/44.5	36/44.5	36/44.5
Panel	Net dim.(W×H×D)	mm	1430×53×680	1430×53×680	1430×53×680	1430×53×680	1430×53×680	1430×53×680
	Packing dim.(W×H×D)	mm	1525×130×765	1525×130×765	1525×130×765	1525×130×765	1525×130×765	1525×130×765
	Net/gross weight	kg	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller RM05/BG(T)E-A					

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent ref. piping: 8m(horizontal).
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 8m(horizontal).
3. Sound level is measured at 1.4m below the unit.

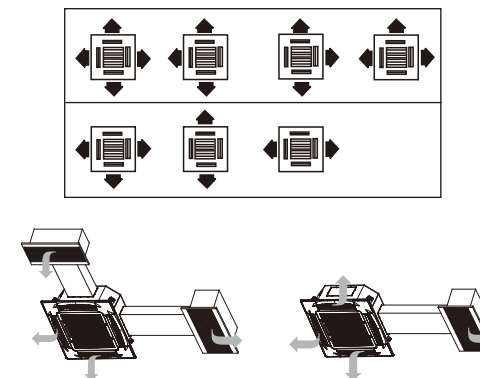
Four-way Cassette

Various Selections >>

Three selections: Compact Four-way Cassette, Four-way Cassette& Four-way Cassette Silent Type.

Flexible Air Distribution Type >>

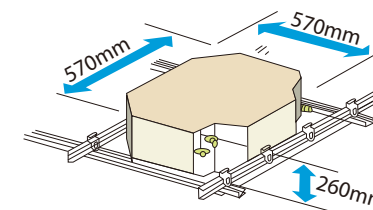
7 discharge patterns in 2 to 4 directions can be selected to suit the requirements of the installation site or the shape of the room.



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.



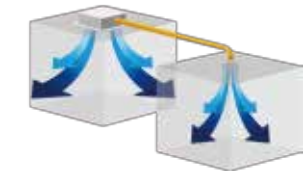
360° Airflow Outlet >>

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



Lower Operating Noise >>

For Four-way Cassette Silent Type: 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 pump head is fitted as standard; maximum 600mm pump head is available.

For Four-way Cassette& Four-way Cassette Silent Type: Drain pump can pump condenser water up to 750mm high, which simplifies installation of the drain piping system.

Compact Four-way Cassette

Model			MDV-D15Q4/N1-A3	MDV-D22Q4/N1-A3	MDV-D28Q4/N1-A3	MDV-D36Q4/N1-A3	MDV-D45Q4/N1-A3
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5
	Heating	kW	1.7	2.4	3.2	4.0	5.0
Power input	Cooling	W	36	50	50	56	56
	Heating	W	36	50	50	56	56
Airflow rate(H/M/L)		m³/h	435/283/208	414/313/238	414/313/238	521/409/314	521/409/314
Sound pressure level(H/M/L)		dB(A)	34.9/32.5/22.5	35.8/33.4/23.4	35.8/33.4/23.4	41.5/35.6/28.8	41.5/35.6/28.8
Main body	Net dim.(W×H×D)	mm	570×260×570	570×260×570	570×260×570	570×260×570	570×260×570
	Packing dim.(W×H×D)	mm	675×285×675	675×285×675	675×285×675	675×285×675	675×285×675
	Net/gross weight	kg	16/19.5	16/20	16/20	18/22	18/22
Panel	Net dim.(W×H×D)	mm	647×50×647	647×50×647	647×50×647	647×50×647	647×50×647
	Packing dim.(W×H×D)	mm	715×123×715	715×123×715	715×123×715	715×123×715	715×123×715
	Net/gross weight	kg	2.4/4.5	2.4/4.5	2.4/4.5	2.4/4.5	2.4/4.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller RM05/BG(T)E-A				

Four-way Cassette

Model			MDV-D28Q4/N1-D	MDV-D36Q4/N1-D	MDV-D45Q4/N1-D	MDV-D56Q4/N1-D	MDV-D71Q4/N1-D
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1
	Heating	kW	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	65	65	75	75	82
	Heating	W	65	65	75	75	82
Airflow rate(H/M/L)		m³/h	847/766/640	847/766/640	864/755/658	864/755/658	1,157/955/749
Sound pressure level(H/M/L)		dB(A)	42/38/35	42/38/35	42/38/35	42/38/35	45/42/39
Main body	Net dim.(W×H×D)	mm	904×230×840	904×230×840	904×230×840	904×230×840	904×230×840
	Packing dim.(W×H×D)	mm	955×260×955	955×260×955	955×260×955	955×260×955	955×260×955
	Net/gross weight	kg	24/28	24/28	26/30	26/30	26/30
Panel	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950
	Packing dim.(W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller RM05/BG(T)E-A				

Model			MDV-D80Q4/N1-D	MDV-D90Q4/N1-D	MDV-D100Q4/N1-D	MDV-D112Q4/N1-D	MDV-D140Q4/N1-D
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	8.0	9.0	10.0	11.2	14.0
	Heating	kW	9.0	10.0	11.1	12.5	15.0
Power input	Cooling	W	97	160	160	160	170
	Heating	W	97	160	160	160	170
Airflow rate(H/M/L)		m³/h	1236/973/729	1540/1300/1120	1540/1300/1120	1540/1300/1120	1800/1500/1280
Sound pressure level(H/M/L)		dB(A)	45/42/39	48/45/43	48/45/43	48/45/43	50/47/44
Main body	Net dim.(W×H×D)	mm	904×230×840	904×300×840	904×300×840	904×300×840	904×300×840
	Packing dim.(W×H×D)	mm	955×260×955	955×330×955	955×330×955	955×330×955	955×330×955
	Net/gross weight	kg	26/30	32/37	32/37	32/37	32/37
Panel	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950
	Packing dim.(W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
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 Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller RM05/BG(T)E-A				

Four-way Cassette Silent Type

Model			MDV-D28Q4/N1-E	MDV-D36Q4/N1-E	MDV-D45Q4/N1-E	MDV-D56Q4/N1-E	MDV-D71Q4/N1-E
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1
	Heating	kW	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	80	80	88	88	88
	Heating	W	80	80	88	88	88
Airflow rate(H/M/L)		m³/h	764/638//554	764/638//554	905/740//651	905/740//651	950/767//663
Sound pressure level(H/M/L)		dB(A)	32/31/30	32/31/30	36/34/33	36/34/33	38/36/35
Main body	Net dim.(W×H×D)	mm	840×230×840	840×230×840	840×230×840	840×230×840	840×230×840
	Packing dim.(W×H×D)	mm	955×260×955	955×260×955	955×260×955	955×260×955	955×260×955
	Net/gross weight	kg	21.5/26.7	21.5/26.7	23.7/28.9	23.7/28.9	23.7/28.9
Panel	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950
	Packing dim.(W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller RM05/BG(T)E-A				

Model			MDV-D80Q4/N1-E	MDV-D90Q4/N1-E	MDV-D100Q4/N1-E	MDV-D112Q4/N1-E	MDV-D140Q4/N1-E
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	8.0	9.0	10.0	11.2	14.0
	Heating	kW	9.0	10.0	11.1	12.5	15.0
Power input	Cooling	W	110	140	165	165	176
	Heating	W	110	140	165	165	176
Airflow rate(H/M/L)		m³/h	1200/1021/789	1332/1129/908	1651/1304/1127	1651/1304/1127	1658/1335/1130
Sound pressure level(H/M/L)		dB(A)	42/39/37	43/39/38	45/42/40	45/42/40	46/41/39
Main body	Net dim.(W×H×D)	mm	840×230×840	840×300×840	840×300×840	840×300×840	840×300×840
	Packing dim.(W×H×D)	mm	955×260×955	955×330×955	955×330×955	955×330×955	955×330×955
	Net/gross weight	kg	23.7/28.9	28.7/34.1	28.7/34.1	28.7/34.1	30.9/36.3
Panel	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950
	Packing dim.(W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
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 Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller RM05/BG(T)E-A				

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB,outdoor temperature: 35°CDB, equivalent ref. piping: 8m(horizontal).
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 8m(horizontal).
3. Sound level is measured at 1.4m below the unit.

Duct series



Low static pressure duct

Medium pressure duct (A5 type)

High Static Pressure Duct

Fresh Air Processing Unit

Low Static Pressure Duct

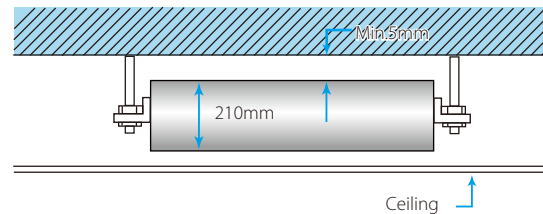
Low Sound Level >>

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



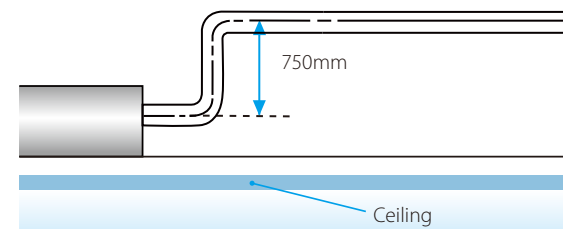
Compact Design >>

Uniformed height of 210mm, compact design for easy locate where ceiling space is limited. Entire body adopts fireproof plastic material, the minimum weight is 14kg.



Options >>

Drain pump with a 750mm pumphead is an optional accessory.



V Shape Evaporator >>

V shape evaporator design enhances heat exchanging efficiency by around 22%.

Easy Installation and Maintenance >>

The EXV is fixed inside the indoor unit.



Specifications

Model			MDV-D18T3/N1-C	MDV-D22T3/N1-C	MDV-D28T3/N1-C	MDV-D36T3/N1-C	MDV-D45T3/N1-C	MDV-D56T3/N1-C	MDV-D71T3/N1-C
Power supply			1-phase,220-240V,50Hz						
Capacity	Cooling	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	59	59	59	65	105	105	130
	Heating	W	59	59	59	65	105	105	130
Airflow rate(H/M/L)		m³/h	578/512/409	578/512/409	578/512/409	617/551/441	824/690/609	824/690/609	1060/970/811
External static pressure(Min/Std/Max)		Pa	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30
Sound pressure level(H/M/L)		dB(A)	35/27/24	35/27/24	35/27/24	38/32/28	39/32/29	39/32/29	41/33/30
Net dimension(WxHxD)		mm	740x210x470	740x210x470	740x210x470	740x210x470	960x210x470	960x210x470	960x210x470
Packing dimension(WxHxD)		mm	910x230x510	910x230x510	910x230x510	910x230x510	1130x230x510	1130x230x510	1130x230x510
Net/gross weight		kg	14/17.5	14/17.5	14/17.5	14/17.5	17.5/22	17.5/22	21/26.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller RM05/BG(T)E-A						

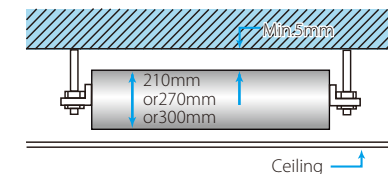
Notes:

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

Medium Static Pressure Duct (A5 type)

Compact Size >>

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



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-D15T2/N1-DA5	MDV-D22T2/N1-DA5	MDV-D28T2/N1-DA5	MDV-D36T2/N1-DA5	MDV-D45T2/N1-DA5	MDV-D56T2/N1-DA5
Power supply			1-phase,220-240V,50Hz					
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.6
	Heating	kW	1.7	2.6	3.2	4.0	5.0	6.3
Power input	Cooling	W	56	57	57	61	98	103
	Heating	W	56	57	57	61	98	103
Airflow rate(H/M/L)		m³/h	538/456/375	538/456/375	538/456/375	597/514/429	811/684/575	811/684/575
External static pressure(Min/Std/Max)		Pa	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30
Sound pressure level(H/M/L)		dB(A)	35.8/34.6/31.4	36/35/32	37/35/32	38.6/37.5/33.8	39/37.9/34	39/37.9/34
Net dimension(WxHxD)		mm	740x210x500	740x210x500	740x210x500	740x210x500	960x210x500	960x210x500
Packing dimension(WxHxD)		mm	870x285x525	870x285x525	870x285x525	870x285x525	1115x285x525	1115x285x525
Net/gross weight		kg	17.5/20.5	17.5/20	17.5/20	17.5/20	22.5/26	22.5/26
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)					

Model			MDV-D71T2/N1-DAS	MDV-D80T2/N1-BA5	MDV-D90T2/N1-BA5	MDV-D112T2/N1-BA5	MDV-D140T2/N1-BA5
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	7.1	8.0	9.0	11.2	14.0
	Heating	kW	8.0	9.0	10.0	12.5	15.5
Power input	Cooling	W	140	198	200	313	274
	Heating	W	140	198	200	313	274
Airflow rate(H/M/L)		m³/h	1029/934/781	1345/1165/1013	1345/1165/1013	1800/1556/1400	1905/1636/1400
External static pressure(Min/Std/Max)		Pa	0/10/30	10/20/50	10/20/50	10/40/80	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	47.7/43.2/39.0
Net dimension(W×H×D)		mm	1180×210×500	1180×270×775	1230×270×775	1230×270×775	1290×300×865
Packing dimension(W×H×D)		mm	1335×285×525	1355×350×795	1355×350×795	1355×350×795	1400×375×925
Net/gross weight		kg	28/31.5	38/46.5	40/48	40/48	49/58
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 Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)				

Notes:

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

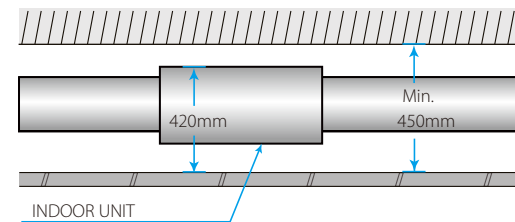
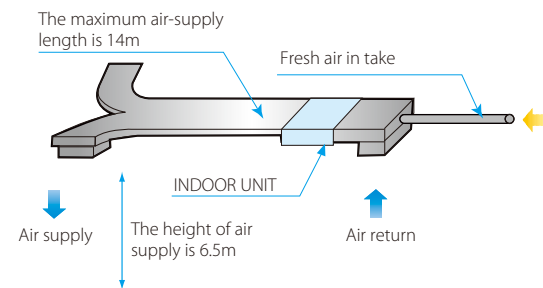
High Static Pressure Duct

Flexible Duct Design >>

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

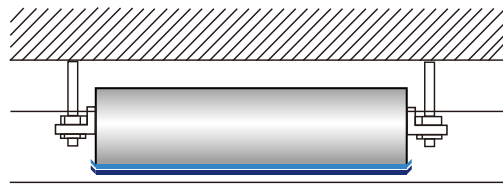
The maximum length for air supply is about 14m at a height of 6.5m.

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



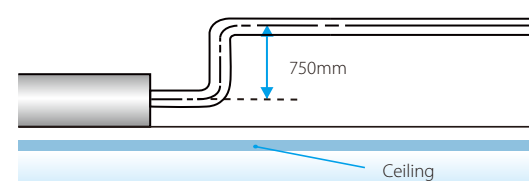
Double-skin Drainage Pan >>

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



Option >>

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



Convenient Installation >>

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

Standard filter is housed in an aluminum frame, which is removable from the bottom in 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, and wireless remote controller RM05/BG(T)E-A comes as an option.

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/N1-B	MDV-D80T1/N1-B	MDV-D90T1/N1-B	MDV-D112T1/N1-B	MDV-D140T1/N1-B	MDV-D160T1/N1-B
Power supply			1-phase,220-240V,50Hz					
Capacity	Cooling	kW	7.1	8.0	9.0	11.2	14.0	16.0
	Heating	kW	8.0	9.0	10.0	12.5	16.0	17.0
Power input	Cooling	W	263	263	423	524	724	940
	Heating	W	263	263	423	524	724	940
Airflow rate(H/M/L)		m³/h	1443/1361/1218	1416/1338/1220	1951/1741/1518	2116/1936/1520	3000/2618/2226	3620/3044/2744
External static pressure(Min/Std/Max)		Pa	25/25/196	37/37/196	37/37/196	50/50/196	50/50/196	50/50/196
Sound pressure level(H/M/L)		dB(A)	48/46/44	48/46/44.5	52/49/47	52/49/47	53/50/48	54/52/50
Net dimension(WxHxD)		mm	952x420x690	952x420x690	952x420x690	952x420x690	1300x420x690	1300x420x690
Packing dimension(WxHxD)		mm	1090x440x768	1090x440x768	1090x440x768	1090x440x768	1436x450x768	1436x450x768
Net/gross weight		kg	45/50	45/50	46.5/52.4	50.6/56	68/70	70/77.5
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	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)					

Model			MDV-D200T1/N1-B	MDV-D250T1/N1-B	MDV-D280T1/N1-B	MDV-D400T1/N1-B	MDV-D450T1/N1-B	MDV-D560T1/N1-B
Power supply			1-phase,220-240V,50Hz					
Capacity	Cooling	kW	20.0	25.0	28.0	40.0	45.0	56.0
	Heating	kW	22.5	26.0	31.5	45.0	50.0	63.0
Power input	Cooling	W	1516	1516	1516	2700	2700	3400
	Heating	W	1516	1516	1516	2700	2700	3400
Airflow rate(H/M/L)		m³/h	4700/4100/3599	4700/4100/3599	4700/4100/3599	7472/6072/4995	7472/6072/4995	9550/7950/6600
External static pressure(Min/Std/Max)		Pa	50/200/280	50/200/280	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	61/59/56	63/60/57
Net dimension(W×H×D)		mm	1443×470×810	1443×470×810	1443×470×810	1970×668×902.5	1970×668×902.5	1970×668×902.5
Packing dimension(W×H×D)		mm	1509×550×990	1509×550×990	1509×550×990	2095×800×964	2095×800×964	2095×800×964
Net/gross weight		kg	115/129	115/129	115/129	232/245	232/245	235/250
Piping connections	Liquid/gas pipe	mm	Φ9.53×2/Φ15.9×2	Φ9.53×2/Φ15.9×2	Φ9.53×2/Φ15.9×2	Φ9.53×2/Φ22.2×2	Φ9.53×2/Φ22.2×2	Φ9.53×2/Φ22.2×2
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)					

Notes:

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

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

3. Sound level is measured at 1.4m below the air outlet.

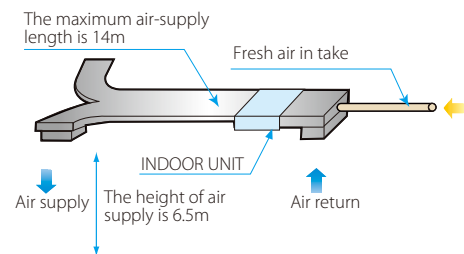
External static pressure is based on high speed indoor air flow.

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. The maximum length of air supply is around 14m and the maximum height of air supply is about 6.5m.

Healthy and Comfortable >>

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

Four speed fan motor(model 125&140).

Specification

Model			MDV-D125T1/N1-FA	MDV-D140T1/N1-FA	MDV-D200T1/N1-FA	MDV-D250T1/N1-FA	MDV-D280T1/N1-FA
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	12.5	14.0	20.0	25.0	28.0
	Heating	kW	10.5	12.0	18.0	20.0	22.0
Power input	Cooling	W	430	430	1063	1063	1063
	Heating	W	461	430	1063	1063	1063
Airflow rate(H/M/L)			m ³ /h	2142/1870/1611	2142/1870/1611	2870/2620/2150	3005/2700/2250
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	1300x420x690	1300x420x690	1443x470x810	1443x470x810
Packing dimension(WxHxD)			mm	1436x450x768	1436x450x768	1509x550x990	1509x550x990
Net/gross weight			kg	69.5/76	69.5/76	115/125	115/125
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 Φ25	OD Φ25	OD Φ32	OD Φ32	OD Φ32
Operation temperature range			°C	Heating: -5~16; Fan only: 16~20; Cooling: 20~43			
Standard controller				Wired controller KJR-29B1/BK-E (6 meters connection wire)			

Notes:

1. Nominal cooling capacities are based on the following conditions: outdoor air temperature: 33°CDB, 28°CWB, equivalent ref. piping: 8m(horizontal).
2. Nominal heating capacities are based on the following conditions: outdoor air temperature: 0°CDB, -2.9°CWB, equivalent ref. piping: 8m(horizontal).
3. Sound level is measured at 1.4m below the air outlet.

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.

Console



Compact Size and Stylish Design >>

The elegant and thin body complements the existing decor and saves space.

The EXV is installed inside the indoor unit for added compactness.

High Comfort >>

Flexible air flow: vertical auto swing and wide angle louvers ensure that warm air reaches every corner of the room and increases the air flow coverage.

Indoor unit adopts DC motor with five fan speeds to meet different requirements.

Applies the Fujikoki mechanical expansion valve which offers 2,000-stage element positioning to ensure precise flow control and lower modulation noise when the EXV is operating.

Flexible Installation >>

Can be installed on the floor or lower wall.

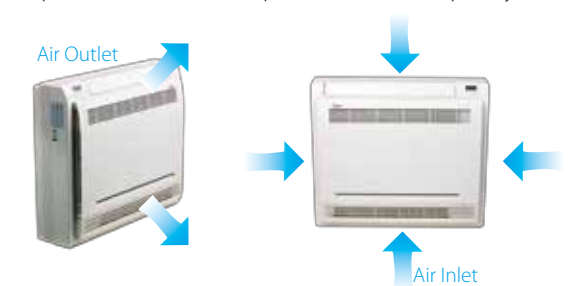
As a floor standing type, air flow can be semi or fully accessed without losing capacity.



Two Air Outlets and Four Air Inlets >>

Four directional of air inlet.

two options of air outlet: Up and Down, or Up only.



Top/bottom and right/left side, for better ventilation

Specification

Model			MDV-D22Z/DN1-B	MDV-D28Z/DN1-B	MDV-D36Z/DN1-B	MDV-D45Z/DN1-B
Power supply			1-phase,220-240V,50Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.6	3.2	4.0	5.0
Power input	Cooling	W	20	25	25	45
	Heating	W	20	25	25	45
Airflow rate(H/M/L)			m ³ /h	430/345/229	510/430/229	510/430/229
Sound pressure level(H/M/L)			dB(A)	38/32/26	39/33/27	39/33/27
Net dimension(WxHxD)			mm	700x210x600	700x210x600	700x210x600
Packing dimension(WxHxD)			mm	810x305x710	810x305x710	810x305x710
Net/gross weight			kg	14/19	15/20	15/20
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ16	OD Φ16	OD Φ16	OD Φ16
Standard controller			Wireless remote controller RM05/BG(T)E-A			

Notes:

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

Wall-mounted

S type panel



C type panel



R type panel

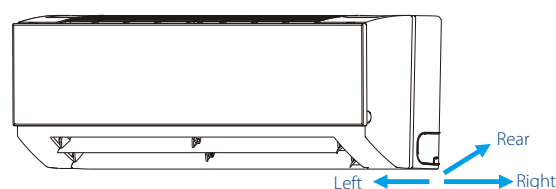


Convenient Installation >>

Multi-directional refrigerantoutlet pipe: left\right\rear, more flexible for installation.

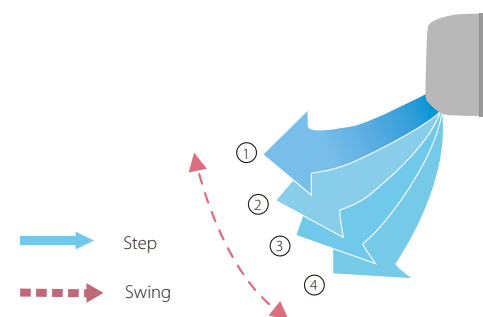
EXV is built-in the indoor unit, compact size, lengthened the connection pipe; gas pipe: 468mm; liquid pipe: 550mm, more flexible for installation.

Adopts new type fixing plate, stable and easy to install.



Auto Swing Louver >>

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



Optimal Comfort Through Better Flow Control and Quiet Operations >>

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



Specification

Model	S panel		MDV-D15G/N1-S	MDV-D22G/N1-S	MDV-D28G/N1-S	MDV-D36G/N1-S	MDV-D45G/N1-S	MDV-D56G/N1-S
	C panel		-	MDV-D22G/N1YB	MDV-D28G/N1YB	MDV-D36G/N1YB	MDV-D45G/N1YB	MDV-D56G/N1YB
Power supply			1-phase,220-240V,50Hz					
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.6
	Heating	kW	1.7	2.4	3.2	4	5	6.3
Power input	Cooling	W	28	28	28	28	45	45
	Heating	W	28	28	28	28	45	45
Airflow rate(H/M/L)	S panel	m³/h	427/389/336	525/480/430	525/480/430	590/520/480	860/755/630	925/860/755
	C panel	m³/h	-	520/480/430	520/480/430	520/480/430	860/755/630	925/860/755
Sound pressure level(H/M/L)		dB(A)	33/31/28	35/32/29	35/32/29	35/32/29	40/38/34	40/38/34
Net dimension(WxHxD)	S panel	mm	915x290x230	915x290x230	915x290x230	915x290x230	1072x315x230	1072x315x230
	C panel	mm	915x290x210	915x290x210	915x290x210	915x290x210	1070x315x210	1070x315x210
Packing dimension(WxHxD)	S panel	mm	1020x390x315	1020x390x315	1020x390x315	1020x390x315	1180x415x315	1180x415x315
	C panel	mm	1020x385x300	1020x385x300	1020x385x300	1020x385x300	1180x410x300	1180x410x300
Net/gross weight	S panel	kg	12.4/15.9	13/16.8	13/16.8	13/16.8	15.1/19.5	15.1/19.5
	C panel	kg	-	12/17.5	12/17.5	12/17.5	15/19	15/18
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5	OD Φ16.5
Standard controller			Wireless remote controller RM05/BG(T)E-A					

Model			MDV-D71G-R3/N1Y	MDV-D80G-R3/N1Y	MDV-D90G-R3/N1Y
Power supply			1-phase,220-240V,50Hz		
Capacity	Cooling	kW	7.1	8.0	9.0
	Heating	kW	8.0	9.0	10.0
Power input	Cooling	W	75	86	86
	Heating	W	75	86	86
Airflow rate(H/M/L)		m³/h	1190/780/580	1,320/840/640	1,320/840/640
Sound pressure level(H/M/L)		dB(A)	47/43/42	48/43/38	49/43/38
Net dimension(WxHxD)		mm	1,250x325x245	1,250x325x245	1,250x325x245
Packing dimension(WxHxD)		mm	1,345x430x335	1,345x430x335	1,345x430x335
Net/gross weight		kg	19.9/25	19.9/25	19.9/25
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ16.5	OD Φ16.5	OD Φ16.5
Standard controller			Wireless remote controller RM05/BG(T)E-A		

Notes:

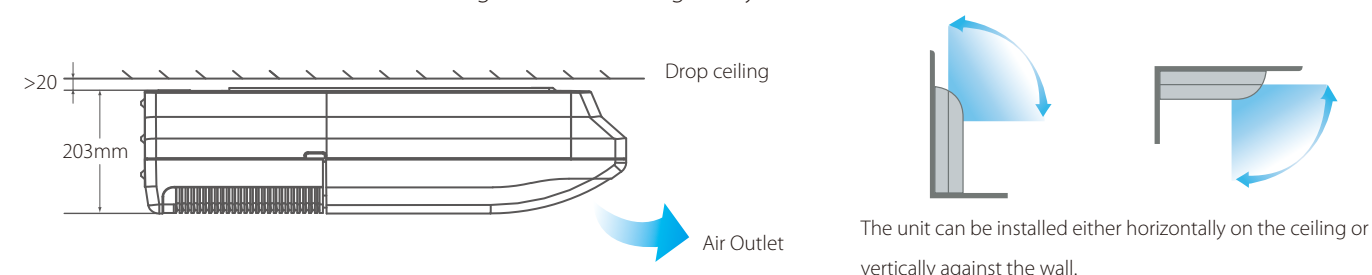
1. Nominal cooling capacities are based on the following conditions: return air temperature.: 27°CDB, 19°CWB,outdoor temperature.: 35°CDB, equivalent ref. piping: 8m(horizontal).
2. Nominal heating capacities are based on the following conditions: return air temperature.: 20°CDB, outdoor temperature.: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

Ceiling & Floor



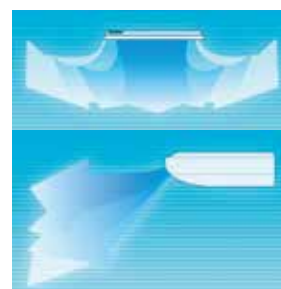
Convenient Installation >>

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



Auto Swing and Wide Angle Air Flow >>

Two direction auto swing - vertical and horizontal.
The range of horizontal air discharge is widened which secures wider air flow distribution to provide more comfortable air circulation no matter where the 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	MDV-D80DL/N1-C
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	3.6	4.5	5.6	7.1	8.0
	Heating	kW	4.0	5.0	6.3	8.0	9.0
Power input	Cooling	W	49	120	122	125	130
	Heating	W	49	120	122	125	130
Airflow rate(H/M/L)		m ³ /h	650/570/500	800/600/500	800/600/500	800/600/500	1,200/900/700
Sound pressure level(H/M/L)		dB(A)	40/38/36	43/41/38	43/41/38	43/41/38	45/43/40
Net dimension(WxHxD)		mm	990x203x660	990x203x660	990x203x660	990x203x660	1280x203x660
Packing dimension(WxHxD)		mm	1089x296x744	1089x296x744	1089x296x744	1089x296x744	1379x296x744
Net/gross weight		kg	26/32	28/34	28/34	28/34	34.5/41
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller RM05/BG(T)E-A				

Model			MDV-D90DL/N1-C	MDV-D112DL/N1-C	MDV-D140DL/N1-C	MDV-D160DL/N1-C
Power supply			1-phase,220-240V,50Hz			
Capacity	Cooling	kW	9.0	11.2	14.0	16.0
	Heating	kW	10.0	12.5	15.0	18.0
Power input	Cooling	W	130	182	182	300
	Heating	W	130	182	182	300
Airflow rate(H/M/L)		m ³ /h	1200/900/700	1980/1860/1730	1980/1860/1730	1980/1860/1730
Sound pressure level(H/M/L)		dB(A)	45/43/40	47/45/42	47/45/42	47/45/42
Net dimension(WxHxD)		mm	1280x203x660	1670x244x680	1670x244x680	1670x244x680
Packing dimension(WxHxD)		mm	1379x296x744	1764x329x760	1764x329x760	1764x329x760
Net/gross weight		kg	34.5/41	54/59	54/59	57.5/63.5
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller RM05/BG(T)E-A			

Notes:

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

Floor Standing



Easy Installation »

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

Easy Maintenance »

Filter is provided as a standard accessory. It can be removed and cleaned easily thanks to Midea's sophisticated design and the product's removable blades. The streamlined appearance harmonizes the unit with any given room's interior decor. All metal parts are made of commercial grade galvanized steel for maximum protection against corrosion.

Optional Panel Styles »

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

Concealed floor standing type



F3B series concealed type



Air intake from front(F4 series)



Air intake from below(F5 series)

Specification

Model			MDV-D22Z/N1-F3B	MDV-D28Z/N1-F3B	MDV-D36Z/N1-F3B	MDV-D45Z/N1-F3B	MDV-D56Z/N1-F3B	MDV-D71Z/N1-F3B	MDV-D80Z/N1-F3B
Power supply			1-phase,220-240V,50Hz						
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
	Heating	kW	2.4	3.2	4.0	5.0	6.3	8.0	9.0
Power input	Cooling	W	40	46	46	49	88	130	130
	Heating	W	40	46	46	49	88	130	130
Airflow rate(H/M/L)		m³/h	530/456/400	569/485/421	624/522/375	660/542/440	1,150/970/830	1,380/1,100/870	1,380/1,100/870
Sound pressure level(H/M/L)		dB(A)	36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33
Net dimension(WxHxD)		mm	840x545x212	840x545x212	1040x545x212	1040x545x212	1340x545x212	1340x545x212	1340x545x212
Packing dimension(WxHxD)		mm	939x639x305	939x639x305	1139x639x305	1139x639x305	1425x639x305	1425x639x305	1425x639x305
Net/gross weight		kg	25/27	25/27	29.5/34	29.5/34	33/39	33/39	36/40
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller RM05/BG(T)E-A						

Model			MDV-D22Z/N1-F4	MDV-D28Z/N1-F4	MDV-D36Z/N1-F4	MDV-D45Z/N1-F4	MDV-D56Z/N1-F4	MDV-D71Z/N1-F4	MDV-D80Z/N1-F4
			MDV-D22Z/N1-F5	MDV-D28Z/N1-F5	MDV-D36Z/N1-F5	MDV-D45Z/N1-F5	MDV-D56Z/N1-F5	MDV-D71Z/N1-F5	MDV-D80Z/N1-F5
Power supply			1-phase,220-240V,50Hz						
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
	Heating	kW	2.4	3.2	4.0	5.0	6.3	8.0	9.0
Power input	Cooling	W	40	46	46	49	88	130	130
	Heating	W	40	46	46	49	88	130	130
Airflow rate(H/M/L)		m³/h	530/456/400	569/485/421	624/522/375	660/542/440	1,150/970/830	1,380/1,100/870	1,380/1,100/870
Sound pressure level(H/M/L)	F4	dB(A)	36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33
	F5	dB(A)	36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33
Net dimension(W×H×D)	F4	mm	1000×596×225	1000×596×225	1200×596×225	1200×596×225	1500×596×225	1500×596×225	1500×596×225
	F5	mm	1000×677×220	1000×677×220	1200×677×220	1200×677×220	1500×677×220	1500×677×220	1500×677×220
Packing dimension(W×H×D)	F4	mm	1089×683×312	1089×683×312	1289×683×312	1289×683×312	1589×683×312	1589×683×312	1589×683×312
	F5	mm	1182×683×312	1182×683×312	1382×683×312	1382×683×312	1682×683×312	1682×683×312	1682×683×312
Net/gross weight	F4	kg	30/35	30/35	36/44	36/44	41/46.5	41/46.5	42.5/48.5
	F5	kg	30/38	30/38	35.5/41	35.5/41	42/51	42/51	44/53
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller RM05/BG(T)E-A						

Notes:

- Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent ref. piping: 8m(horizontal).
- Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 8m(horizontal).
- Specifications of F3B series are measured at 10Pa external static pressure and F4/F5 series at 0Pa.
- Sound level is measured 1m horizontally from the air-outlet and 1m vertically above the floor.

Control Systems



Wireless Remote Controller

RM02

RM05

Wired Controller

KJR-29B

KJR-90C

KJR-86C

KJR-10B

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 the cooling and heating mode through the temperature difference between the indoor temperature and the setting temperature.

* For the 2-pie system, it runs cooling mode only.

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 >>

Besides 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, temperature sensor built-in the remote controller will automatically adjust temperature and send it to the indoor unit to make the room more comfortable.

*Follow me function is available for RM02.



Benefits

Model name		
	RM02	RM05
Mode change	●	●
Temp. setting	●	●
Fan speed control	●	●
Keyboard lock	●	●
Eco operation	●	●
Swing function	●	●
Air direction	●	●
24h timer	●	●
Clock display	—	●
Address setting	●	●
Follow me function	●	—
26°C shortcut setting	●	—
Background light	●	●

Notes:

1. ECO function needs to match with the corresponding indoor units.
2. ● : available controller functions; — : not available controller functions

Specifications

Model	RM02	RM05
Dimensions (HxWxD)(mm)	150x60x15	150x65x20
Power (V)	1.5V(LR03/AAA)×2	

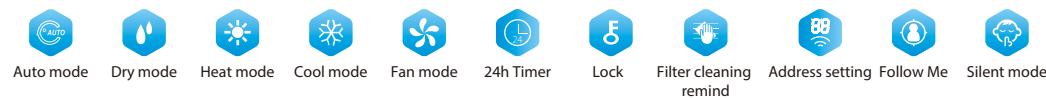
Wired Controller



KJR-86C

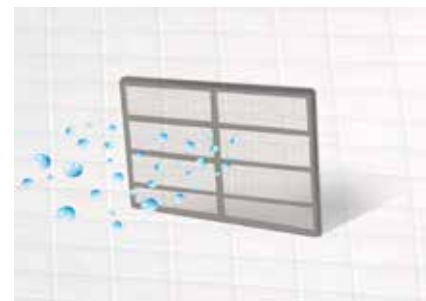
KJR-29B

KJR-90C



Air Filter Cleaning Reminding >>

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



Silent Mode >>

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

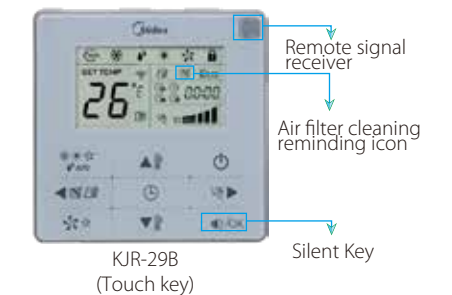


Keyboard Locking >>

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

Remote Signal Receiving Function >>

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

KJR-29B
(Touch key)

Silent Key

Address Setting >>

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



Follow Me >>

Temperature sensor built-in wired controller will sense its surrounding temperature. So the unit can adjust room temperature more accurately to give you more comfort.

*Follow me function is available for KJR-29B and KJR-90C models.



One-key 26°C >>

KJR-86C has one-key 26°C function, and considering about the comfort and energy saving, 26°C is the best setting temperature.

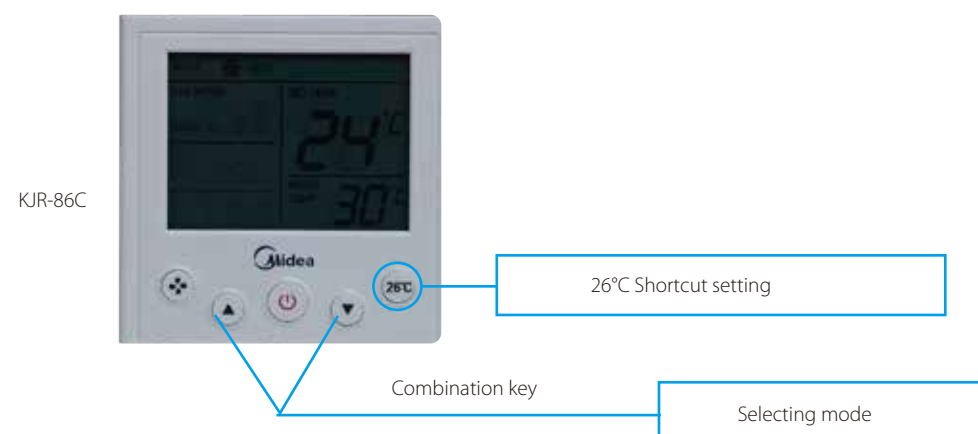


User Friendly Design >>

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

Mode key hidden controller:

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



User Friendly Installation >>

With background light function, easy to operate in a dark room.

Small size as electric switch can make the installation more dignified.

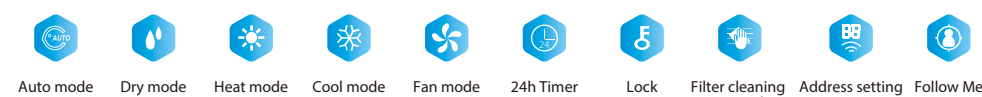


Auto Restart Function >>

When power fails, it can record the running parameters, such as:

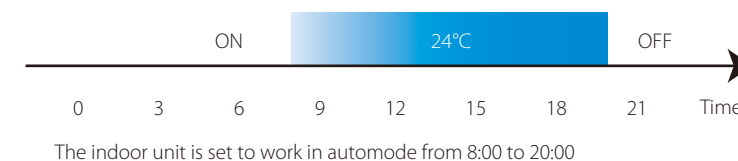
ON/OFF state, mode, Fan speed, Temperature, Swing and Locking status.

When power resumes, it will be automatically read power fails before the set condition.



Built-in Timer >>

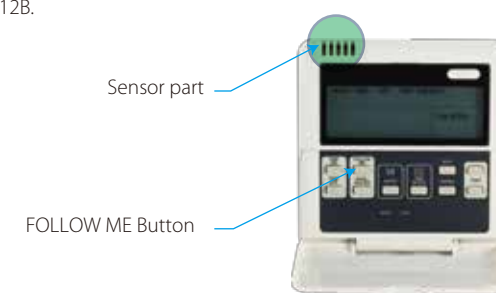
Built-in daily timer offers the convenience of automatically starting and stopping the system at set times.



Follow Me >>

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

*Follow me function is available for KJR-12B.

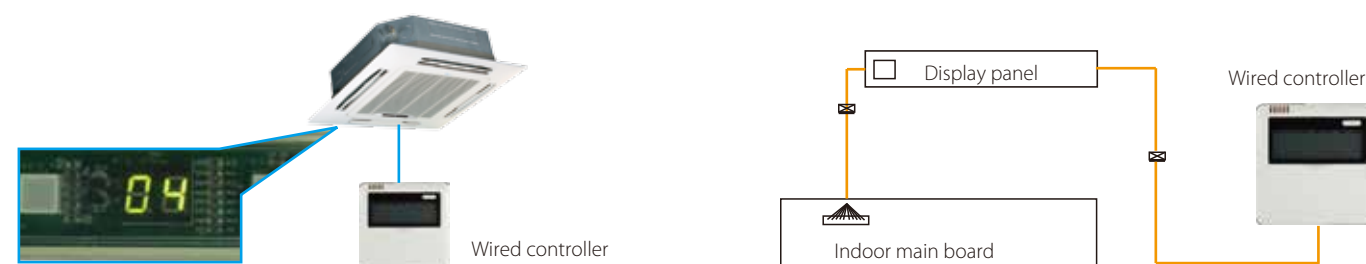


Addresses Setting >>

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

Easy Connection >>

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



V4 Plus R Wired Controller

KJR-120B



Auto Mode >>

Auto mode is specially designed for V4 plus R series only.

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

* KJR-120B can compatible with the 2-pie system and under the auto mode, it only can run cooling mode.

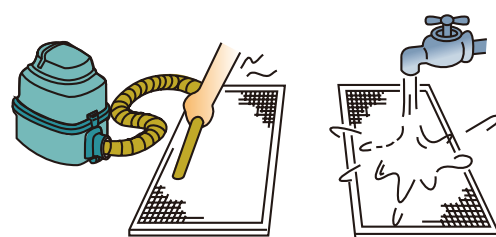
Error Display >>

When the malfunction occurs during the operation, the setting temperature display area will show the error code.

Error status can be checked easily via the indoor unit 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 users need to clean the air filter of the indoor unit. Clean the filter regularly can keep indoor air fresh and clean, good for your health..



Silent Mode >>

Under the cooling, heating and auto mode, when operate the silent mode, it can reduce the running noise through setting the fan speed to low. With less noise, you can always have quiet, peaceful life while staying comfortably.



Weekly Schedule Timer Wired Controller

KJR-120C



Simple Design >>

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

Weekly Schedule Timer >>

With the weekly schedule timer function; users can set up 4 scheduled periods per day to frequent adjustments.

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

Delay Function >>

This function is specifically designed for personnel who are working overtime. Pressing the Delay button will postpone system shutdown by 1 or 2 hours.

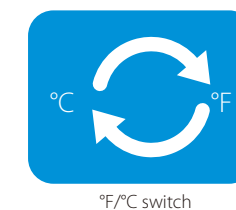
Error Display >>

When the malfunction occurs during the operation, the setting temperature display area will show the error code. Error status can be checked easily via the indoor unit wired controller.



°F/°C Switch >>

Press the Left-right swing and Up-down swing buttons simultaneously for 3 seconds to switch °F/°C.



°F/°C switch

HRV Wired Controller



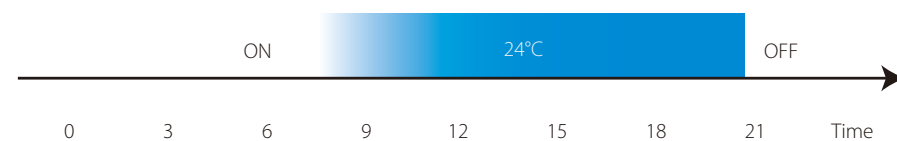
KJR-27B is individually designed for HRV—Heat Recovery Ventilator. The HRV can work in the following modes: exhaust, air supply, bypass, heat exchange, and auto.

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

Built-in Timer >>

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







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



Specifications

Model	KJR-29B	KJR-90C	KJR-86C	KJR-10B	KJR-12B	KJR-27B	KJR-120B	KJR-120C
Dimensions (HxWxD)(mm)	120x120x20	86x86x16.5	86x86x18	120x120x15	120x120x15	120x120x15	120x120x20	120x120x20
Power (V)	DC 5V (Supplied by indoor unit)						DC 12V by IDU	

Benefits

Model name							
	KJR-10B	KJR-12B	KJR-29B	KJR-90C	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	●	—	●	●	—	—	—
Remote signal receiving	—	—	●	●	—	—	—
Air filter cleaning 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:

- ECO function needs to match with the corresponding indoor units.
- : available controller functions; — : not available controller functions

Centralized Controller & Monitor



Indoor Centralized Controller



CCM30
MD-CCM03
MD-CCM09



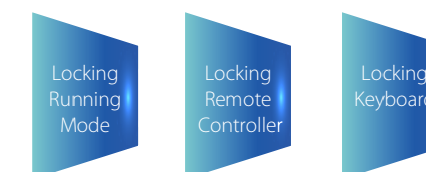
Centralized Control >>

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 be different.



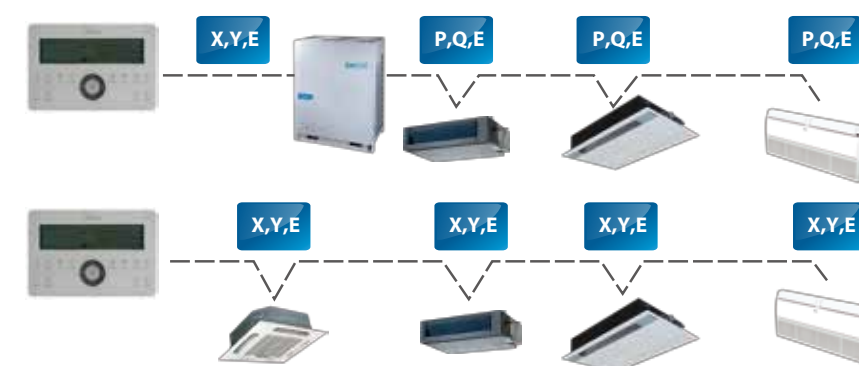
Three Lock Modes >>

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



Wiring Example >>

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



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

Application Example >>

Just make sure the address is not repeated and the units can be from different systems, up to 64 indoor units, greatly reducing system limitation.

- *1. For 2-pipe system, the running mode should be in the same mode;
- *2. For 3-pipe system, the running mode can be set at will.



Air Filter Cleaning Reminding Function >>

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



Easy Installation >>

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



Stylish Design >>

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



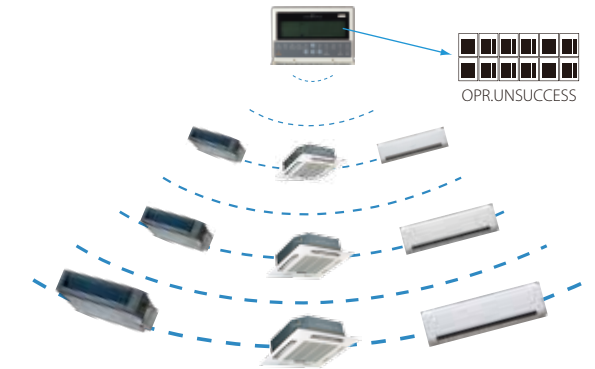
Weekly Schedule for MD-CCM09 >>

MD-CCM09 is a weekly centralized controller, can also include up to 64 indoor units in the weekly schedule. Users can set up to 4 periods perday, 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	23°C
Tue	26°C	22°C	17°C	23°C
Wed	26°C	22°C	17°C	23°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 be either a single unit or all units, which vastly simplifies the control process. Operation signal feedback ensures that all units are working in the correct mode.



Indoor Unit Working Status Display >>

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

Error code or protection code

Current

88#

ALL Online

Protect ON

Error OFF

Set. temp

88°C

Mode

Auto

T2A T2B T3

88:80

Period

1 2 3 4

ON OFF

Room. temp

88:80

Week

Sun Mon Tue Wed Thu Fri Sat

88 Year

18 Mon

28 Day

28:88

Fan

Connecting status matrix

Query Set Opr. unsuccessful

00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
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

Access to Network Monitoring >>




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



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

Network access is only available for CCM03 and CCM30

Benefits

Model	 CCM30	 MD-CCM03	 MD-CCM09
Max. number of indoor units	64	64	64
Group control	●	●	●
Individual control	●	●	●
Fan speed control	●	●	●
Mode selection	●	●	●
Mode locking	●	●	●
Remote controller locking	●	●	●
Keyboard locking	●	●	●
Weekly schedule timer	—	—	●
24h timer	●	●	●
Error check	●	●	●
Emergent start	●	●	●
Emergent stop	●	●	●
Background-light	●	●	●
Swing function	●	●	●
Air filter cleaning reminder	●	—	—
Parameter query	●	●	●
BMS access	●	●	—

Notes:

● : available controller functions; — : not available controller functions

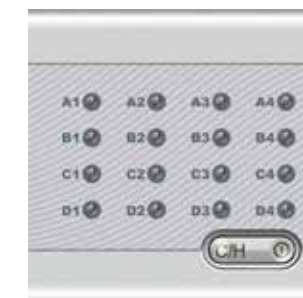
Specifications

Model	MD-CCM03	CCM30	MD-CCM09
Dimensions (H*W*D)(mm)	179×119×74	180×122×78 and 180×122×68	179×119×74
Power (V)	198-242V(50/60Hz)		

Unified On/Off Controller

Unified controller design with graceful appearance and explicit panel.

Can control single or group indoor units.



KJR-90B

Unified Control »

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



Centralized Control »

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



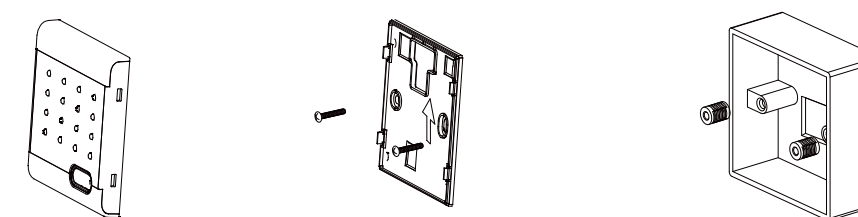
Light Indicator »

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

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

Easy Installation »

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

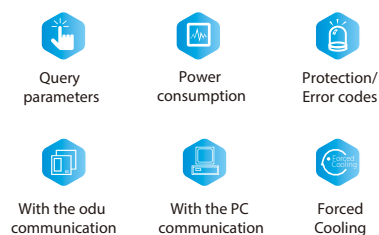


Specifications

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

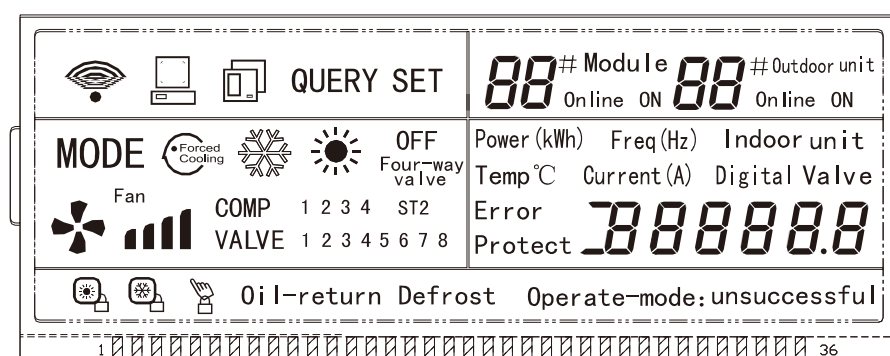
Outdoor Centralized Monitor

MD-CCM02



ODU Parameters Display >>

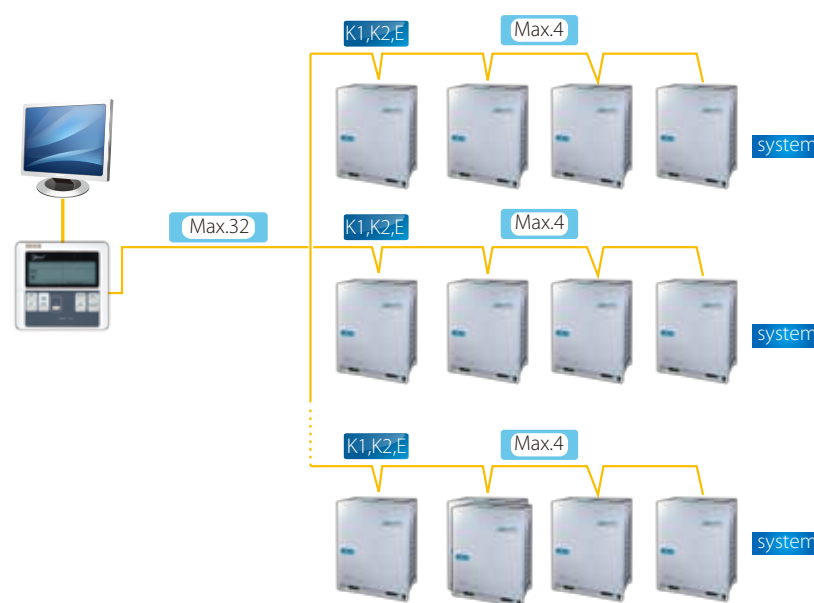
MD-CCM02 enables users to easily check outdoor units' running status, including frequency, temperature, current, pressure, protection codes and error codes.



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

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 indicate
- ❖ Generate operational history reports (daily, weekly)
- ❖ Fault display & Warning message
- ❖ Air filter cleaning reminding function
- ❖ Emergency stop and Alarm signal output
- ❖ Multiple languages



Web Access function



Energy Saving Management



Schedule management



Visual Navigation



Warning Message



Data Backup

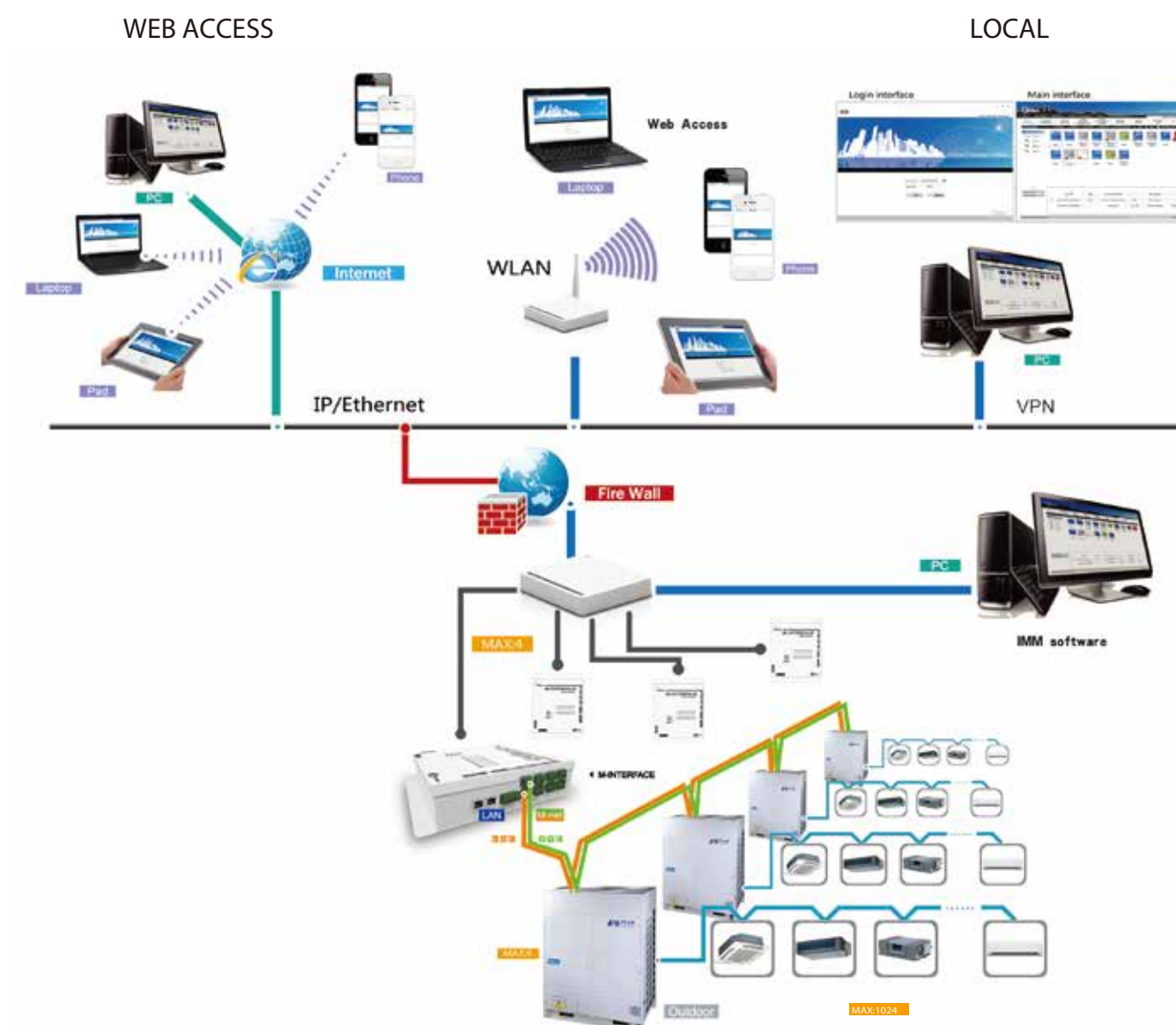


Multiple Languages



Electricity Charge Distribution

Network Control Application >>

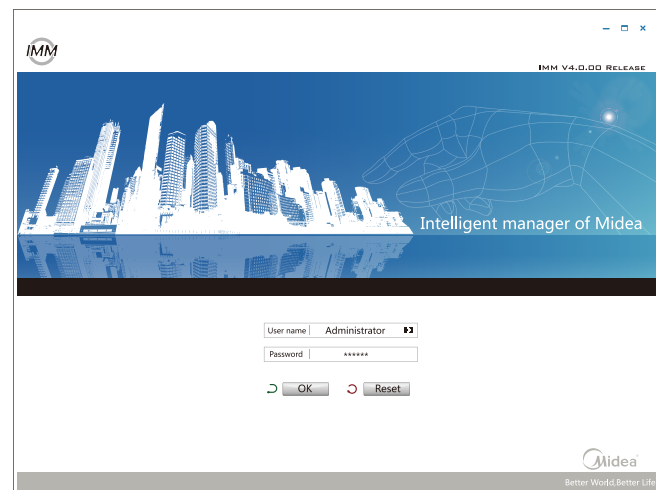


- ❖ Can run on Window 7_32/64 bit, Window XP_32 bit and Window 8.
- ❖ Can monitor and control A/C anytime, anywhere by PC, iPhone, iPad and notebook computer.
- ❖ Support WEB access: IE, Firefox, Safari and Chrome.
- ❖ Enables remote access through DSL, VPNs and so on.

Simple Operation & Management »

- ❖ Click & Operate, a user-friendly interface allows even non-experts to perform the building management system easily.
- ❖ IMM offers massive centralized management program, meets with flexibility and high efficiency.

Login interface



Main interface



Visual Navigation »

Allows to import floor plan, dragging the A/C device to anywhere can locate the A/C quickly, and view 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.



Web Access Function »

With the web access function, a PC, laptop computer or a smart phone can be used as a remote controller. Supports up to 4 users online at the same time. Connects with the LAN and WAN, user can monitor and manage A/C device at distance.

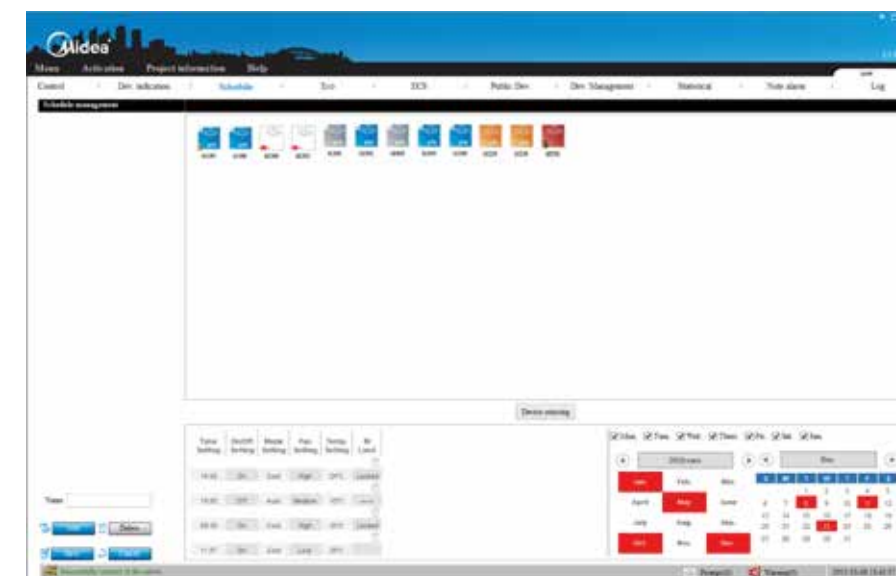
*WAN access needs to set up the VPN.



Schedule Management »

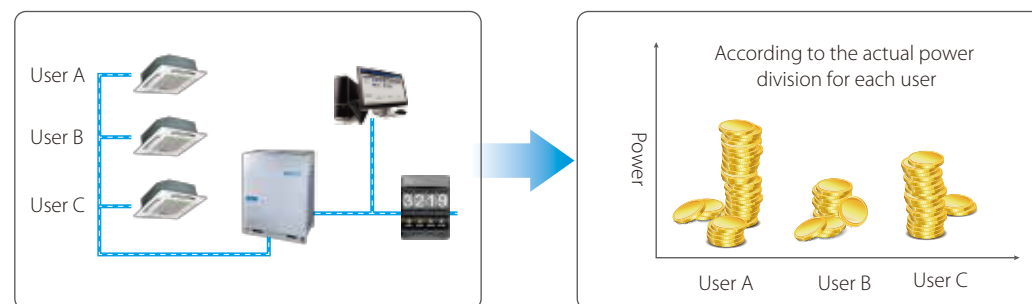
Automatically performs facility start/stop control, switches the operating mode, sets temperatures and enables/disables the remote control according to the present time schedule.

- ◆ User can set up day/week task for running recurrently.
- ◆ User can choose indoor units freely, and assign task time freely.
- ◆ Except for the conventional setup, system offer 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, output and save electricity consumption data for each indoor unit (or group) which is connected to the intelligent manager.
- ❖ Applies the patented Midea Calculation Method to calculate consumption rates according to capacity demand which is based on various parameters: setting temperature, room temperature, running mode, rated HP, public areas, unused rooms, and nighttime use; outputs this information on a charge calculation sheet to evenly divide power consumption charges among tenants.
- ❖ 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.



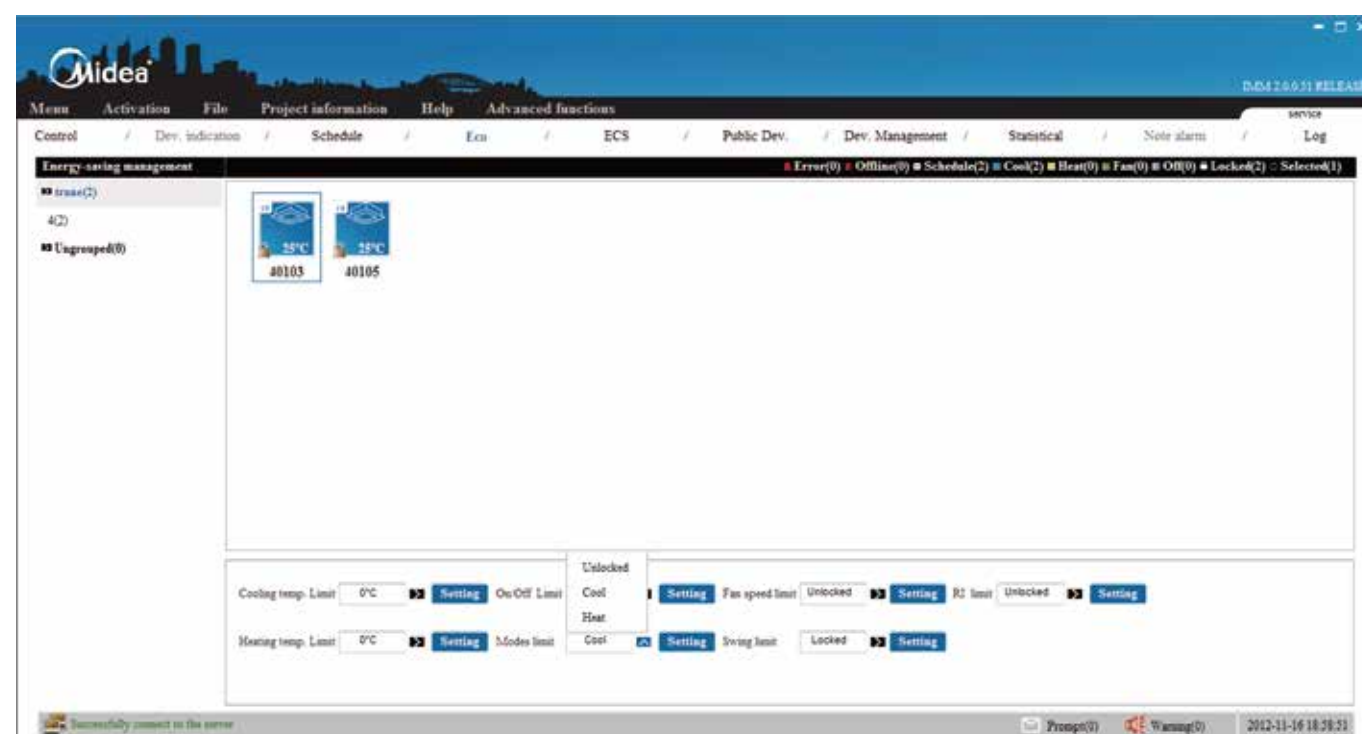
According to the running time, setting temp, returning air temp, refrigerant flow and so factor, the energy consumption can be divided.

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.

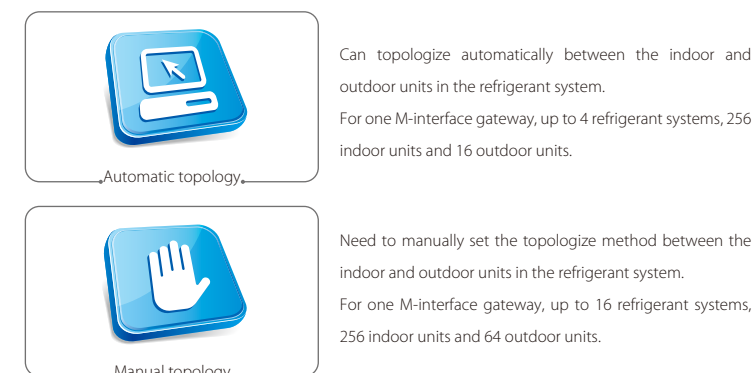
User can set limit to any running unit, any parameter, such as cooling temp., heating temp., fan speed, operation mode and so on.

- * 1. Meet with the <Public building energy efficiency management regulations>.
- 2. Matches with the corresponding indoor units.



Automatic & Manual Topology >>

With automatic topology mode and manual topology mode.



Warning Message >>

The system can receive error messages from air conditioning units in more than one buildings or structures via public phone lines. If something influence normal operation, system will send message to operation staff for early warning.

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

Data Management >>

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

Stores operation data on multiple systems and 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 >>

Easier to control and manage the air conditioner.

Also convenient to manage the energy charge of the public devices.

Data Backup >>

Double data backup, stores on M-interface and IMM database;

The M-interface gateway will automatically back up power data for 1 or 2 months in case system failure occurs.

Such as: PC power failure or system crash, M-interface will automatically backup the data to the gateway.

IMM software also stores the operational data on the software database.

Colorful Language Obtained >>

Supporte multiple languages, customers can switch freely according to their own needs.

9 different languages:

English

French

Italian

Russian

German

Spanish

Simple Chinese

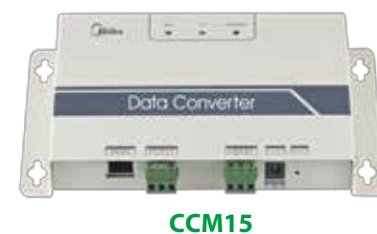
Polish

Korean

Data Converter

Cloud server controller, to enable the long-distance control for VRF system through internet.

As well the smart phone, tablet PC, laptop or desktop PC can be as a web controller, max. 64 indoor units.



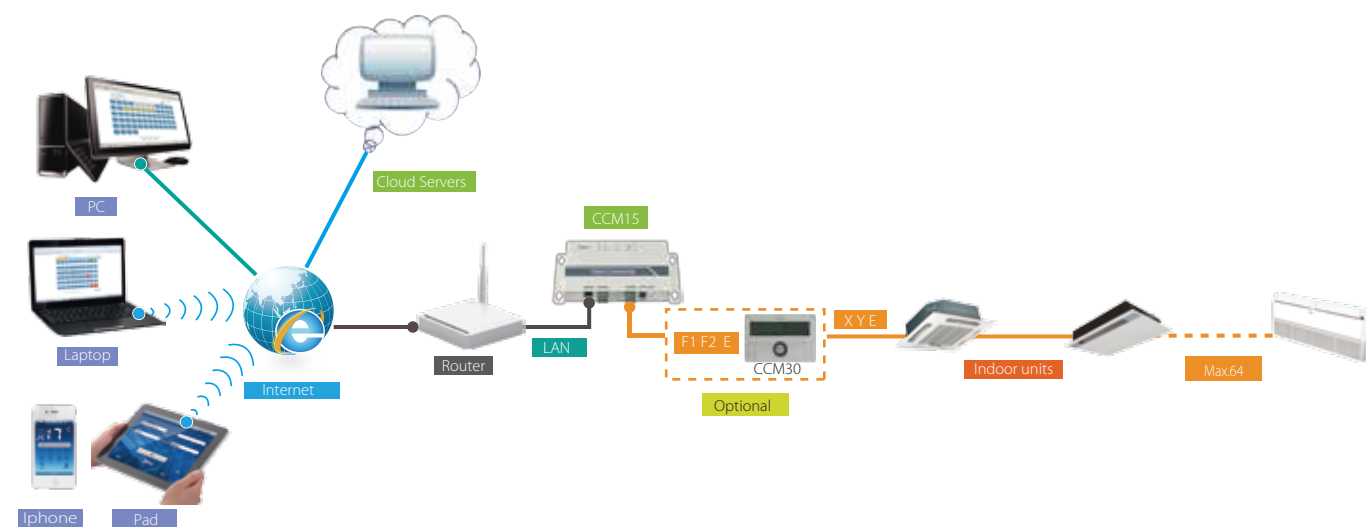
Network Example >>

Can be directly connected with XYE port of the indoor/outdoor units.

Up to connect 64 indoor units.

CCM03/CCM30 is optional and can be connected with CCM15 through F1F2E ports.

The system consisting A/C system, data converter CCM15, router, cloud server and control terminal.



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

Simply Control Interface >>

Software control/ Cloud server control (WEB access).

Click & operate, a user-friendly interface.

Allows single and group control.

Simplified user control interface.

Colour indication and icon makes it easy to recognize unit state.

Can full screen display and temperature can be adjusted by fingers' sliding.



Weekly Schedule Control >>

With weekly schedule function for iPad and Web function.

Multiple sections in each day for single unit or group.

Automatically performs facility start/stop control, operating mode, setting temperatures and according to the present time schedule.



Cloud Server Web >>

Query and control single unit or group.

Weekly schedule setting: can set multiple sections in each day for single unit or group.

Group user control: a user can use the same ID to manage hundreds of CCM15, when selecting the "As group user" button on the login page.

History error: easy service and management with history error function.

Intelligent Control >>

The air conditioner remote control can be realized by mobile phone or tablet computer.

Can query and control the running state of the A/C any time and any where, and even make an appointment in advance.

Can remotely turn off the air conditioner to avoid the power waste, when you are in a hurry to leave.



Modbus® Gateway

LonWorks® Gateway

BMS

KNX Gateway

BACnet® Gateway

What Is The BMS ? >>

BMS is the shorted name for Building Management System or a (more recent terminology) Building Automation System (BAS), is a computer-based control system installed in buildings that controls and monitors the building' s mechanical and electrical equipment such as Ventilation, Lighting, Power systems, Fire systems, and Security systems.

There are four types BMS protocols we can see common: BACnet, LonWorks, Modbus and KNX.



MD-KNX

KNX Gateway

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

What Is The KNX? >>

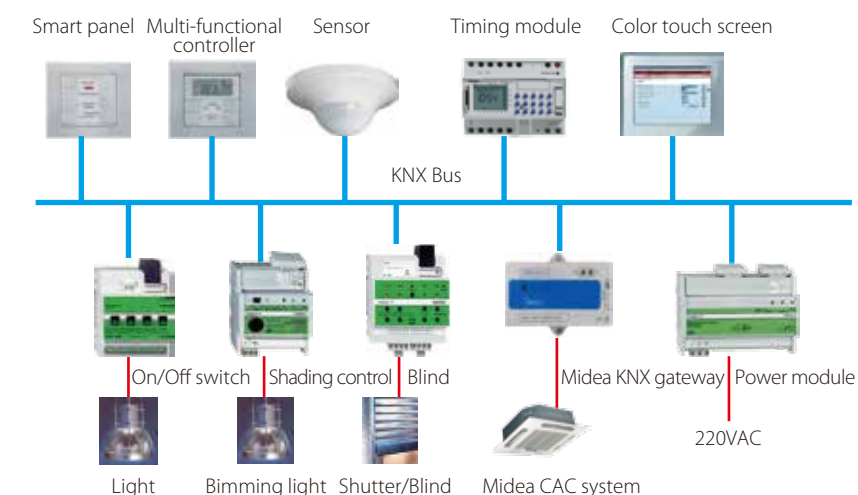
KNX is the short name for Konnex and starts from 1999. KNX standard is the only global standard for housing and building control which occupies the 70% of the Europe smart home market.

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, direct connects with one indoor unit through RS485 bus
- ❖ Direct connection to KNX bus.
- ❖ KNX certification

Widely Application >>

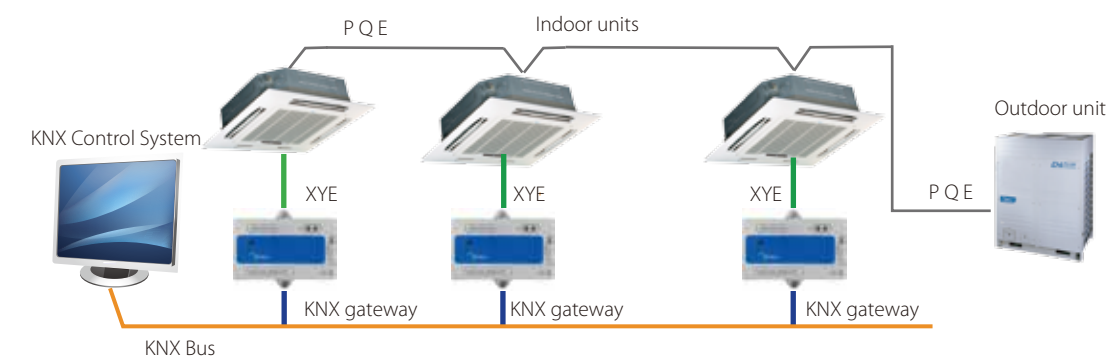
Midea KNX protocol gateway can be combined with other hundreds of KNX certified products labeled with the KNX trademark in a same working system.



Electrical Wiring >>

One gateway only can be connected to one indoor unit.

Only can connect to 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 automation and control networks. BACnet was designed to allow communication of building automation and control systems for applications, such as heating, ventilating, and air conditioning control, lighting control, access control, and fire detection systems and their associated equipment.

Key Features »

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

● Controlling

- Operation mode setting
- Set 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

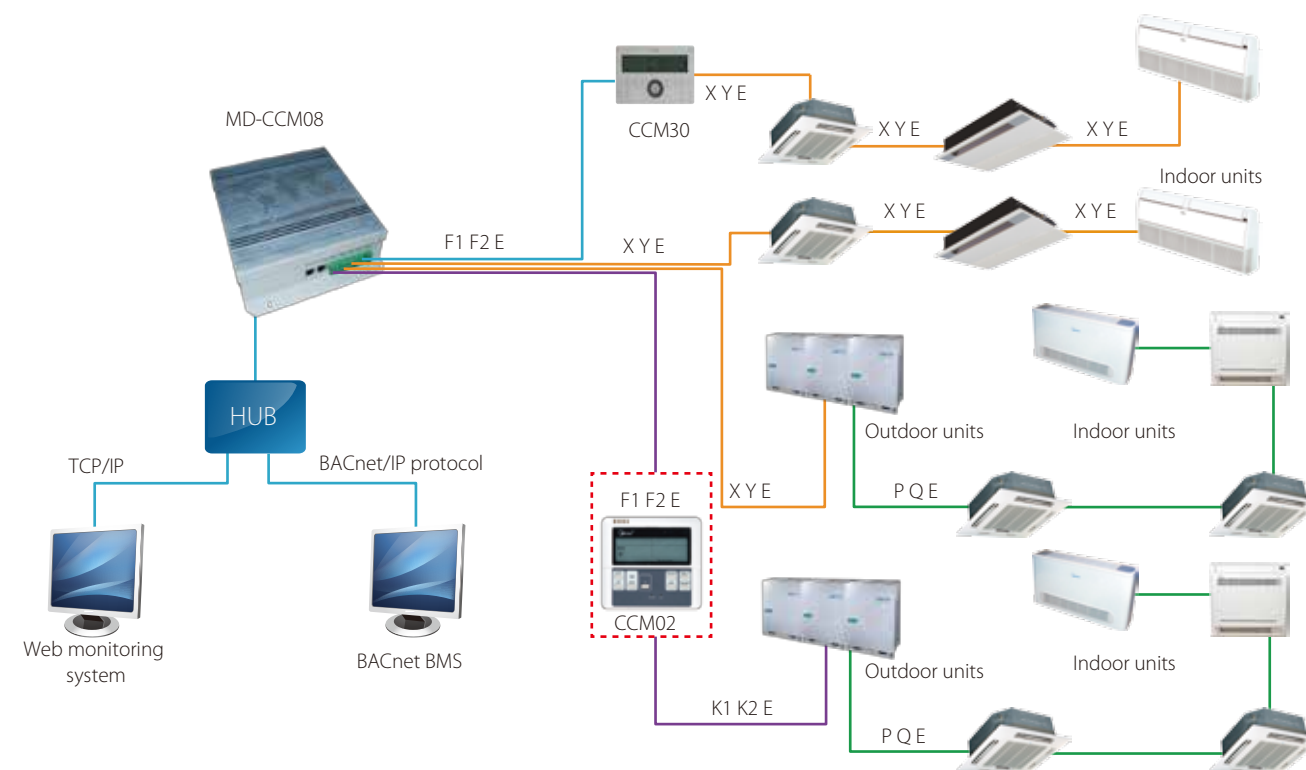
*For more information, refer to product object table.

Monitoring Units Online »

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

Quick & Easy Installation »

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



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

Wide Compatibility »

CCM08 has a wonderful adaptability to the BMS

	Company	BMS software	Brand
1	SIMENS	APOGEE	APOGEE
2	TRANE	Tracer Summit	TRACER SUMMIT
3	Honeywell	Alerton	ALERTON®
4	Schneider	Andover	AndoverControls A Balfour Beatty Company
5	Johnson	METASYS	METASYS

Specifications

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



LonGW64

LonWorks® Gateway

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

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 pair, powerlines, fiber optics, and RF.

LonWorks networks are recognised worldwide as the de facto standard within the building controls industry. It is used for the automation of various functions within buildings such as 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 the large project
- ❖ Easy and fast installation

● Controlling

- On/Off command
- Operation mode setting
- Set temperature setting
- Fan speed setting

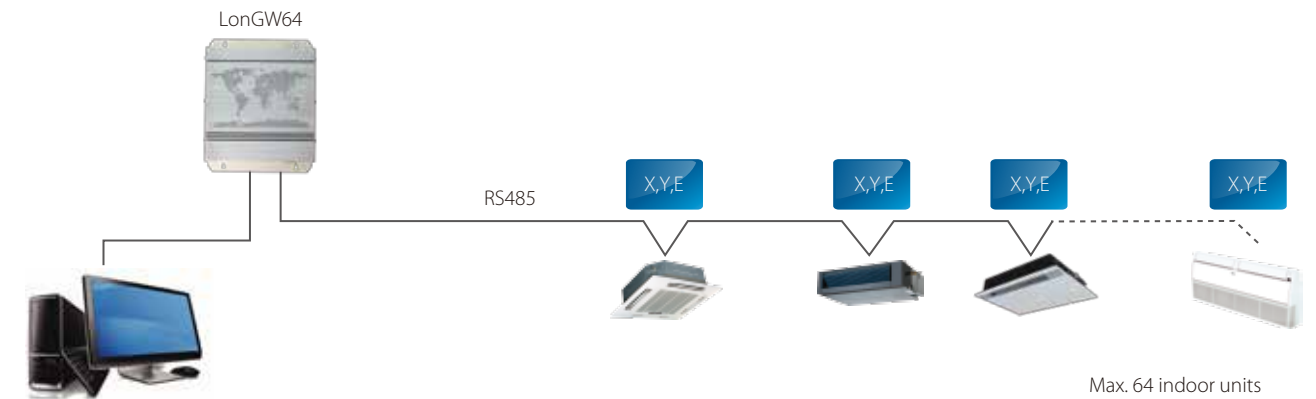
● Monitoring

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

*For more information, refer to product network variable charts.

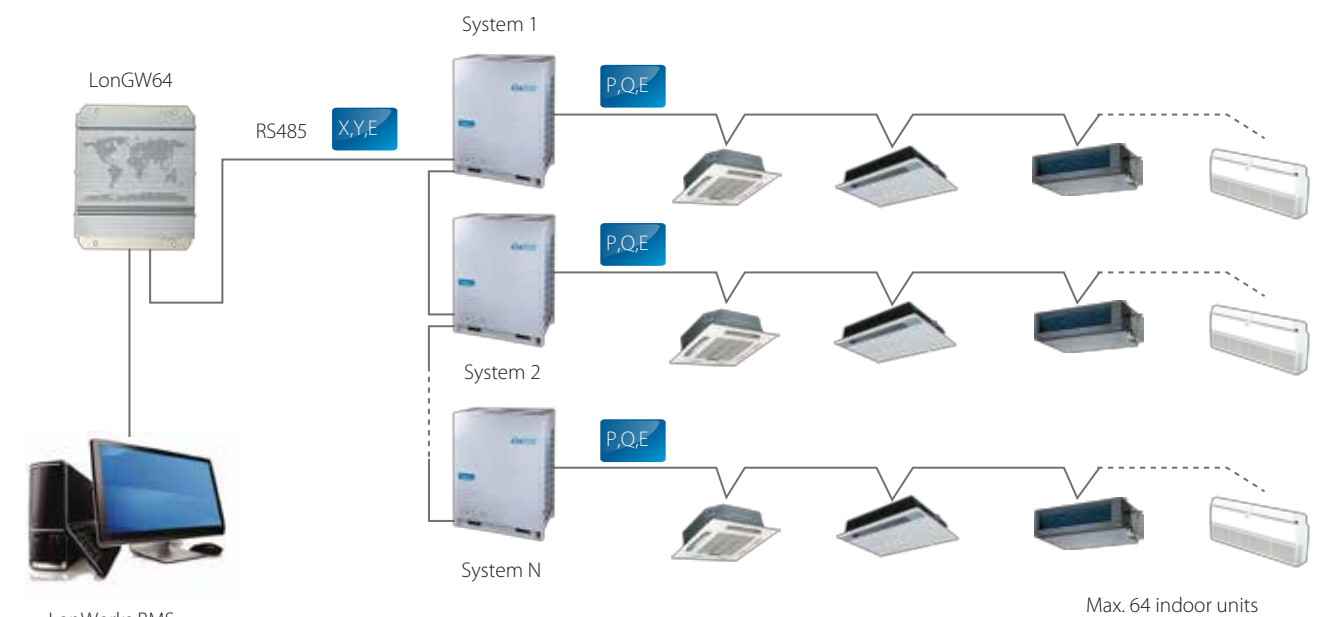
Network Example >>

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



LonWorks BMS

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



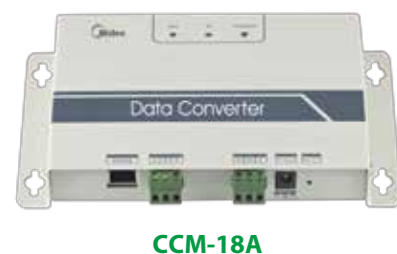
LonWorks BMS

Max. 64 indoor units

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

Specifications

Model	LonGW64/E
Power supply	AC 220V~50/60Hz
Dimensions (HxWxD)(mm)	319x251x61



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 BMS
- ❖ Built-in WEB server function
- ❖ Connect to the BMS system through TCP/IP or RTU.
- ❖ Connect up to 16 indoor or 64 indoor units and 4 outdoor units

*4 outdoor units must be in the same system

● Controlling

- Operation mode setting
- Set temperature setting
- Fan speed setting

● Monitoring

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

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

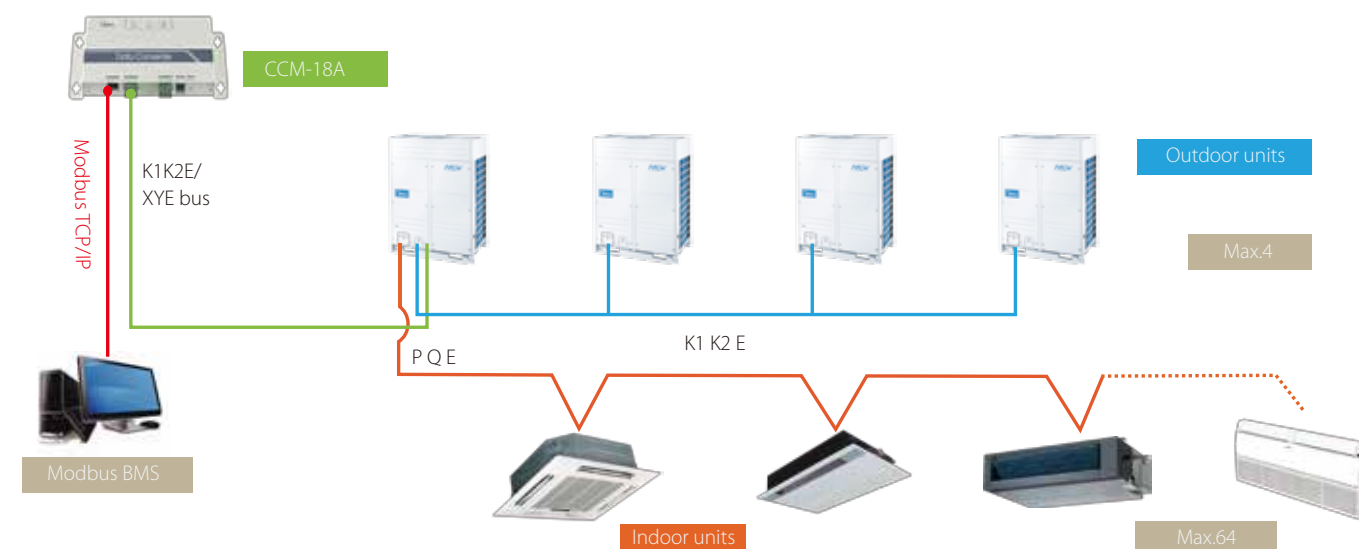
Config A/C System Via Web »

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

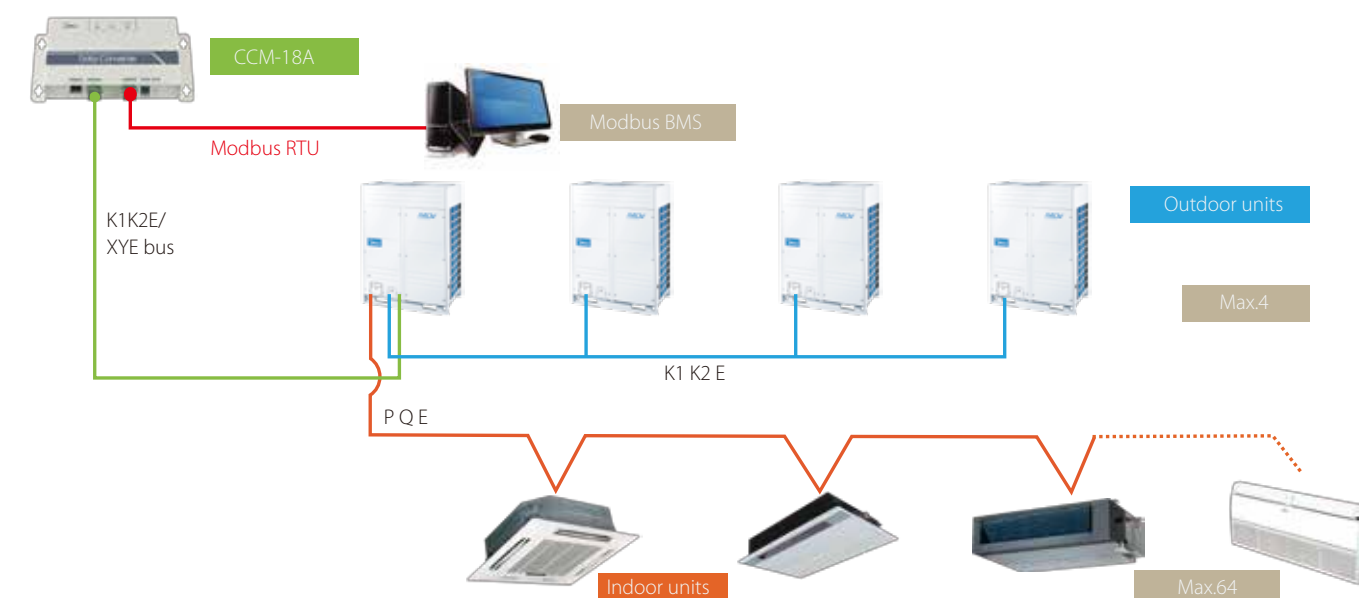


Network Example »

1) TCP connection method



2) RTU connection method



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

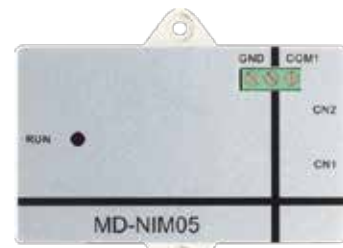
2. XYE and K1K2E must be connected hand by hand.

Specifications

Model	CCM-18A
Dimensions (HxWxD)(mm)	319×251×61
Power supply	AC 220V~50/60Hz

Accessories

Hotel Key Card Interface Module



MD-NIM05/E



MD-NIM05B/E

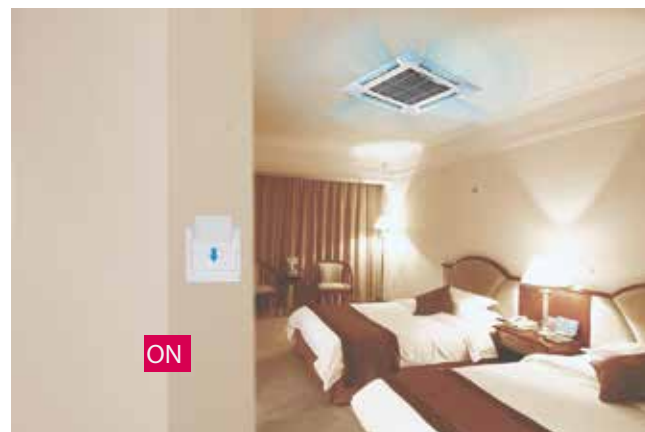
Key Features >>

- ❖ MD-NIM05 is special designed for hotel guest room, restaurant etc., working with hotel card system.
- ❖ Simple, compact and easy to operate unit, suitable for using in hotel bedrooms.
- ❖ Key card cooperates with wired controller to control 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 unit.
- ❖ Two types for choosing: MD-NIM05/E and MD-NIM05B/E.

Application Example >>

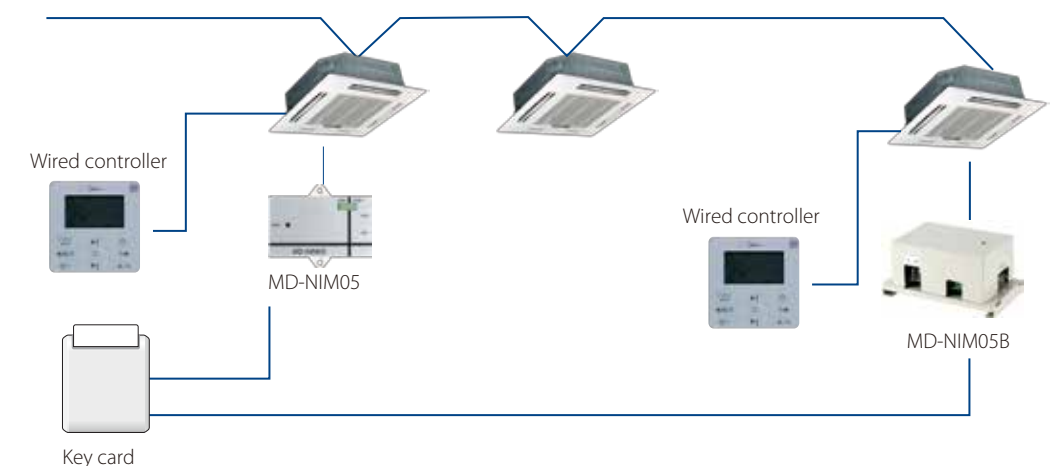
The unit can be turned on or off when inserting or removing the key card.

When the key card is in place, the air conditioner is activated. When the key card is removed, the system can remember all the last setting and stop operation. If the key card is inserted back, the unit will be under standby or operate at the state according to the latest setting before key card is inserted back. It can void cooling an unoccupied room and save energy.



Installation Example >>

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



Electrical Wiring >>

For MD-NIM05/E, users need to buy a high voltage relay when 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 area, the indoor unit will be automatically turned on or off by sensing if there is human in room or not.

It is suitable to be used in hotel, office, conference room, residence, etc.

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



MD-NIM09

Accurate & Comfortable Sensor >>

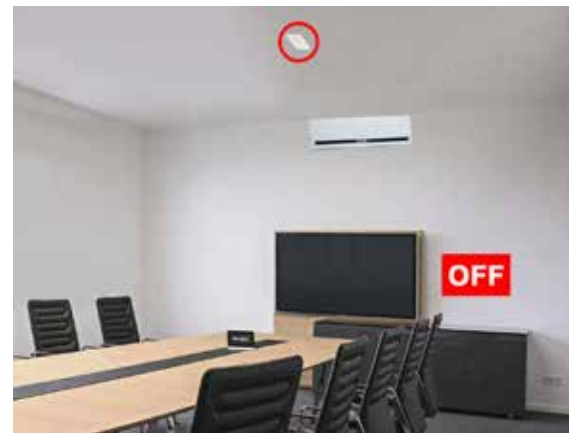
It detects the movement of people within the area and the air conditioning will automatic startup when someone is in the area.

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

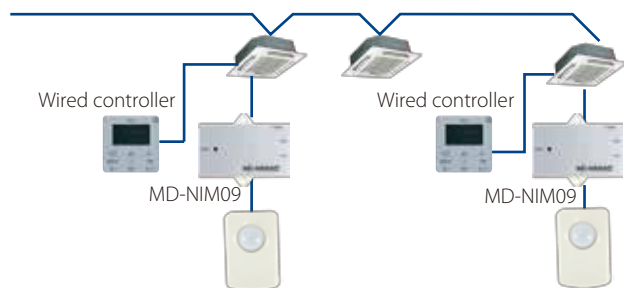
Infra-red sensor can install on the ceiling or wall with centralized human activities



Install on the ceiling

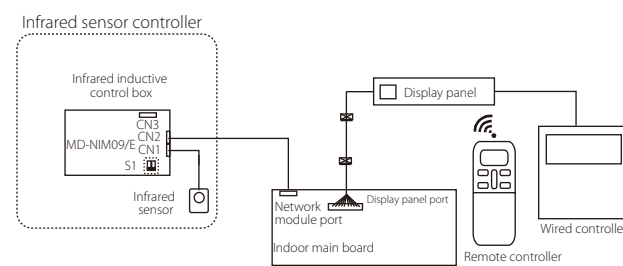


Installation Example >>



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

Detect the power condition and make the corresponding protecting action.

Protect the compressor from being damaged.

Automatically distinguish the abnormal power supply conditions and automatically recover.



HWUA DPB71CM48

Excellent Reliability >>

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

Specifications

Model	With over/under voltage function				Without over/under voltage function
	HWUA	DPA53CM23	HWUA	DPB71CM48	DPA51CM44
Power supply	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

Calculates power consumption.

Does not need adjusting after long-term use.

Corresponds one outdoor unit to one digital power meter.



DTS634
DTS636

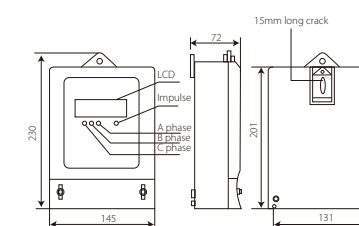
Low Power Consumption >>

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 deployment 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

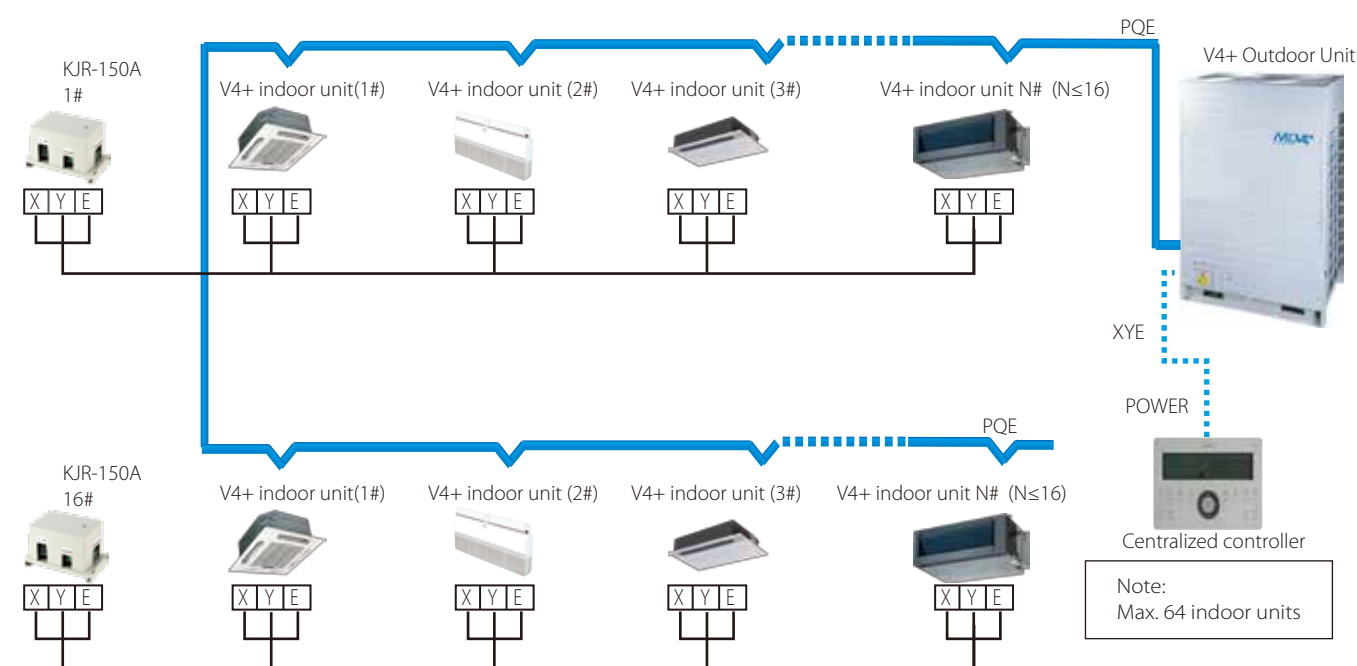
Simple Design >>

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

System Wiring Diagram >>



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

Specifications

Model	KJR-150A
Dimensions (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, but it can connect to the alarm device when ODU is working abnormally, 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 realizes the network electricity distribution.

Wiring Diagram >>

OAE ports: connected to OAE port of ammeter.

PQE ports: connected to PQE port of outdoor unit.

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



AHU Control Box



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

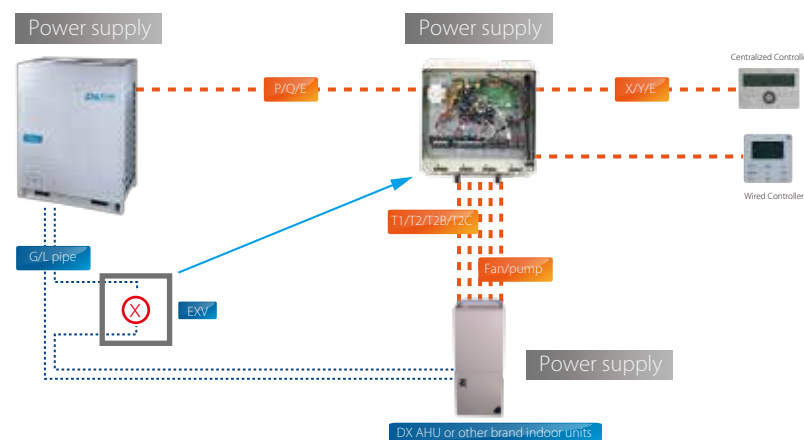
AHUKZ-01B
AHUKZ-02B
AHUKZ-03B

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 which can connect with Midea VRF System (except V4+R& V5 Series). A Series is an independent control box. For B Series, max. 4 control boxes can be combined, capacity reaches up to 224kW (80HP), easy to make solution for large projects.

Wiring Example >>



Specifications

Model	AHUKZ-01A/AHUKZ-02A/AHUKZ-03A AHUKZ-01B/AHUKZ-02B/AHUKZ-03B
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.

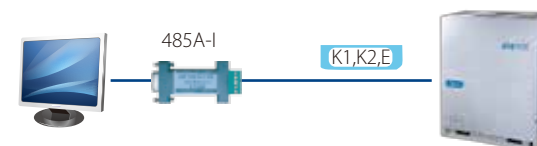
Supports V3, V4, V4+, D3, D4, V4+S and V4+R outdoor units.



MCAC-DIAG/E

Wiring Diagram >>

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



Recommended Config

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

Selection Software

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

Windows Version >>

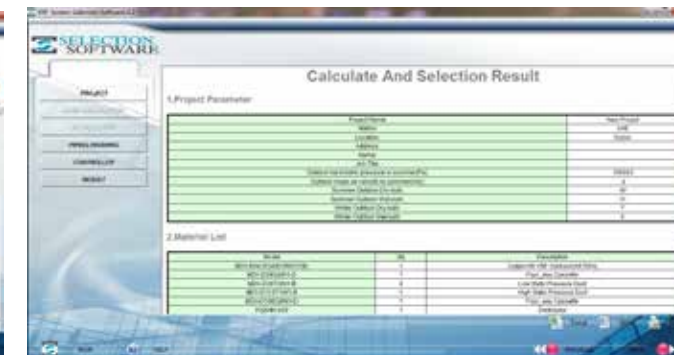
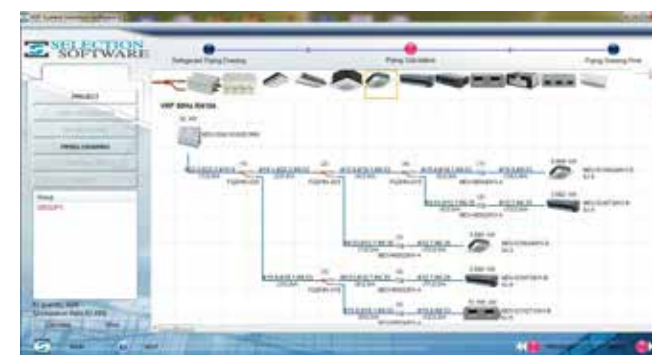
Load calculation: Provides two calculation methods (detailed room load calculation and rough load calculation).

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

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

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

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



CAD Version >>

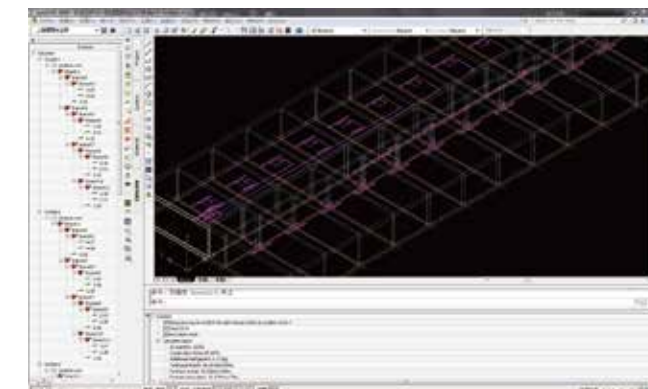
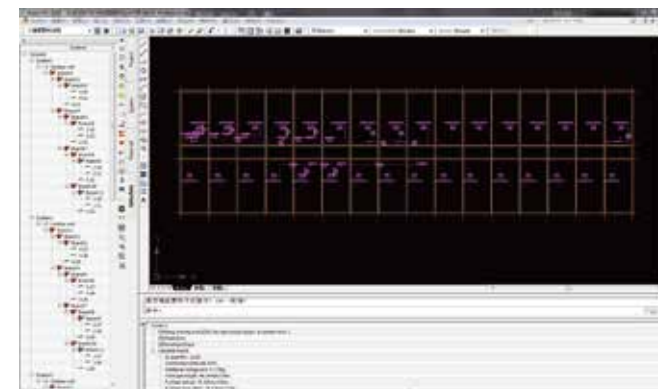
AutoCAD add-on software

Automatic Calculation: Refrigerant & drain pipe size

Automatic Selection: Distributor kit & branch joint

System Check: Installation regulation & refrigerant addition

Automatic Report: Piping installation diagram, equipment list & quotation



APP Application

Midea CAC News APP >>

Midea CAC News APP has been developed to share E-news, new product information, training information and product catalogs.



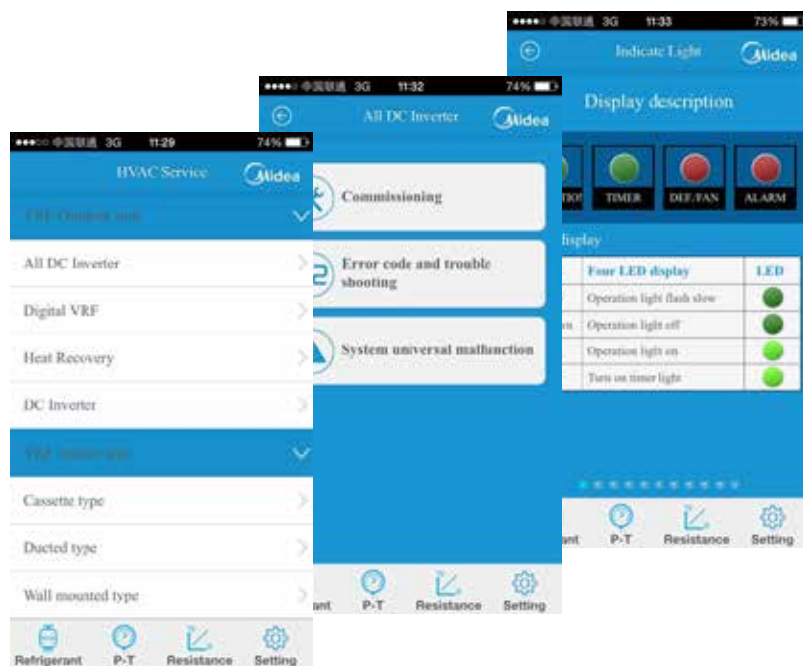
Midea CAC News Application



iOS Version

Midea CAC After-service APP >>

Midea CAC After-service APP is very useful for engineers who serve for Midea commercial air conditioner. It will be very convenient to do the commissioning, refrigerant charge and troubleshooting.



Midea CAC After-service Application



Android Version



iOS Version

HRV-Heat recovery ventilator

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

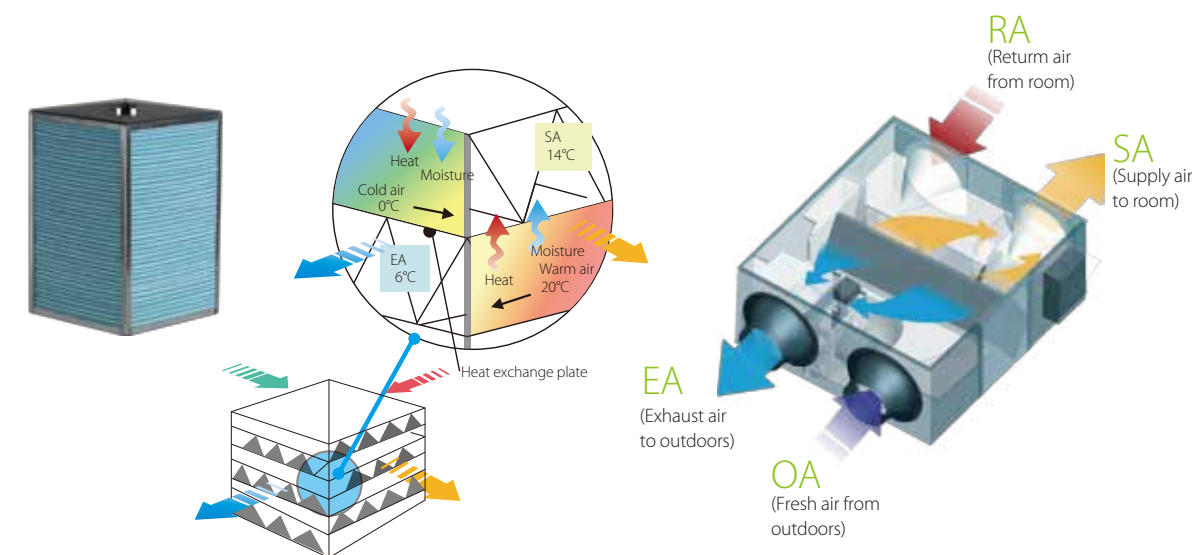
The heat recovery ventilator (HRV) can reclaim heat energy lost through ventilation and reduce the room temperature fluctuation caused by ventilation process. By utilizing the most advanced technology and technics, Midea HRV has extremely good performance. The heat exchanged core is made of special paper 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

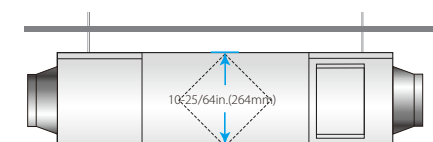


Low noise >>

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

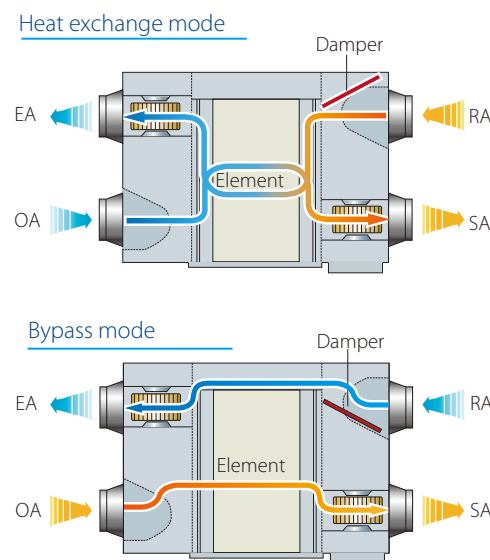
It is one kind of bypass mode with air supply fan speed higher than exhaust fan speed. It can be used in mild climate area where large amount fresh air is needed.

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-200	HRV-300	HRV-400	HRV-500
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Temperature exchange efficiency (%)		High	%	65	65	65	65
		Medium	%	65	65	65	65
		Low	%	70	70	70	70
Enthalpy exchange efficiency (%)	For cooling	High	%	50	50	50	50
		Medium	%	50	50	50	50
		Low	%	55	55	55	55
	For heating	High	%	55	55	60	60
		Medium	%	55	55	60	60
		Low	%	60	60	65	65
Sound pressure level	Heat exchange mode	High	dB(A)	27	30	32	35
		Medium	dB(A)	26	29	31	34
		Low	dB(A)	20	23	25	28
	Bypass mode	High	dB(A)	28	31	33	36
		Medium	dB(A)	27	30	32	35
		Low	dB(A)	22	25	27	30
Net dimension (WxDxH)			mm	866×655×264	944×927×270	944×927×270	1038×1026×270
Packing size (WxDxH)			mm	930×730×445	1010×800×450	1010×1010×450	1120×1120×452
Net/gross weight			kg	23/40	26/44	31/52	41/64
Casing				Galvanized steel plate			
Heat exchange system				Air to air cross flow total heat (sensible heat + latent heat) exchange			
Heat exchange element material				Specially processed nonflammable paper			
Fan	Type	Centrifugal fan					
	Airflow rate	High	m³/h	200	300	400	500
		Medium	m³/h	200	300	400	500
		Low	m³/h	150	225	300	375
	ESP	High	Pa	75	75	80	80
		Medium	Pa	58	60	65	68
		Low	Pa	35	40	43	45
	Motor output		W	20	40	80	120
Duct diameter			mm	Φ144	Φ144	Φ144	
Operating temperature range			°C	-7~43 DB, 80% RH or less			

Model				HRV-800	HRV-1000	HRV-1500	HRV-2000
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	380/3/50	380/3/50
Temperature exchange efficiency (%)		High	%	65	65	65	65
		Medium	%	65	65	/	/
		Low	%	70	70	/	/
Enthalpy exchange efficiency (%)	For cooling	High	%	50	50	50	50
		Medium	%	50	50	/	/
		Low	%	55	55	/	/
	For heating	High	%	60	60	60	60
		Medium	%	60	60	/	/
		Low	%	65	65	/	/
Sound pressure level	Heat exchange mode	High	dB(A)	39	40	51	53
		Medium	dB(A)	38	39	/	/
		Low	dB(A)	32	33	/	/
	Bypass mode	High	dB(A)	40	41	52	54
		Medium	dB(A)	39	40	/	/
		Low	dB(A)	34	35	/	/
Net dimension (WxDxH)			mm	1286×1006×388	1286×1256×388	1600×1270×540	1650×1470×540
Packing size (WxDxH)			mm	1380×1100×573	1390×1350×580	1680×1350×720	1760×1580×720
Net/gross weight			kg	62/88	79/110	163/224	182/247
Casing				Galvanized steel plate			
Heat exchange system				Air to air cross flow total heat (sensible heat + latent heat) exchange			
Heat exchange element material				Specially processed nonflammable paper			
Fan	Type		Centrifugal fan				
	Airflow rate	High	m³/h	800	1000	1500	2000
		Medium	m³/h	800	1000	/	/
		Low	m³/h	600	750	/	/
	ESP	High	Pa	100	100	160	170
		Medium	Pa	82	85	/	/
		Low	Pa	54	58	/	/
	Motor output		W	360	360	450	450
Duct diameter			mm	Φ242	Φ242	346×326	346×326
Operating temperature range			℃	-7~43 DB, 80% RH or less			

Note:

1. For the units model of HRV (200-1000), there are 3-speed adjustable air volume (Hi, Med, Low), but for the units model of HRV (1500-2000), there are only 1-speed which cannot be adjusted.

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

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

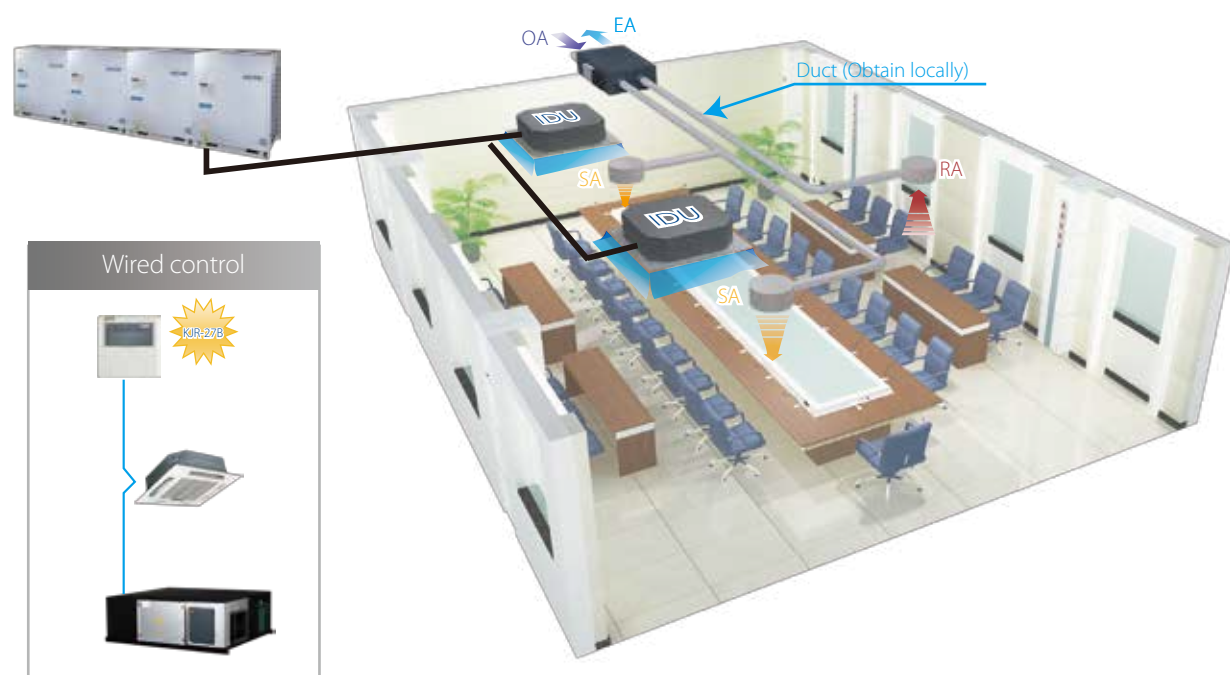
4. Efficiency is measured under the following conditions:

* Cooling Condition: Air Exhaust Temp. 27°C DB, 19.5°C WB, Fresh Air Temp. 35°C DB, 28°C WB.

* Heating Condition: Air Exhaust Temp. 21°C DB, 13°C WB, Fresh Air Temp. 5°C DB, 2°C WB.

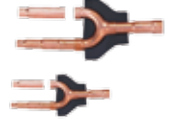
Flexible control >>

Interlocking control with other indoor units by controller is possible.



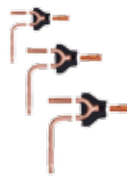
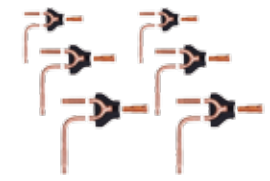
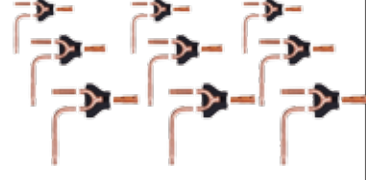
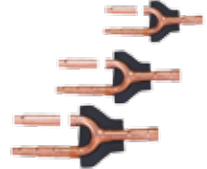
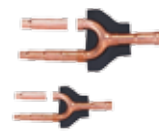
Branch Pipe

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	255×150×185/1.5	For two outdoor units connection
		FQZHW-03N1D	345×160×285/3.4	For three outdoor units connection
		FQZHW-04N1D	475×165×300/4.8	For four outdoor units connection
Branch joint for 410A indoor unit		FQZHN-01D	290×105×100/0.4	$A^* < 16.6\text{kW}$
		FQZHN-02D	290×105×100/0.6	$16.6 \leq A^* < 33\text{kW}$
		FQZHN-03D	310×130×125/0.9	$33\text{kW} \leq A^* < 66\text{kW}$
		FQZHN-04D	350×180×170/1.5	$66\text{kW} \leq A^* < 92\text{kW}$
		FQZHN-05D	365×195×215/1.9	$92\text{kW} \leq A^*$

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

Branch joints of three-pipe refrigerant system

Model	Appearance	Model name	Packing Size (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	$A^* < 16.6\text{kW}$
		FQZHN-02SB	287×137×107/0.9	$16.6 \leq A^* < 33\text{kW}$
		FQZHN-03SB	297×167×177/1.4	$33\text{kW} \leq A^* < 66\text{kW}$
		FQZHN-04SB	372×197×187/2.3	$66\text{kW} \leq A^* < 92\text{kW}$
		FQZHN-05SB	432×222×227/3.3	$92\text{kW} \leq A^*$
Branch joint between MS unit and indoor unit		FQZHN-01D	290×105×100/0.4	$A^* < 16.6\text{kW}$

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

Dimensions

Outdoor branch joints

Branch model	Gas side joints	Liquid side joints
FQZHW-02N1D		
FQZHW-03N1D		
FQZHW-04N1D		

Indoor branch joints

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