

2002-2V2001

Commercial Air Conditioner Division
Midea Group

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

VRF 50Hz/60Hz (V6 / V6-i / VC Pro / V4+R / V4+W / V4+I / Mini VRF)

Commercial Air Conditioners 2020



VRF 50/60Hz

V6 / V6-i / VC Pro / V4+R / V4+W / V4+I / Mini VRF



Midea CAC

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

There are four production bases: Shunde, Chongqing, Hefei and Italy.

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.

Clivet S.p.A: 50,000m² workshop in Feltre and Verona, covering products such as ELFO system, hydronic, WHLP, packaged, split and close control and so on.

- 2020 >> A new generation 3-pipe heat recovery VRF will be launched in the middle of 2020.
- 2018-2019 >> Launched the All DC Inverter Cooling Only VC Pro VRF, ultra cool for hot regions
- 2017-2018 >> Launched the new generation heat pump VRF globally, leading in VRF market
- 2016 >> Acquired 80% stake in Clivet
- 2014-2015 >> Won 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 Reference Projects

Midea has dedicated 20 years in VRF technology innovation, providing complete solutions to various applications such as offices, hospitals, stadium, hotels and transportations.

CEO Offices

- 📍 Country: Brazil
- 📍 City: Rio de Janeiro
- 📦 Outdoor Units: Water Cooled VRF
- 📦 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 1,100HP

Hilton Barcelona Maria Cristina (Five Star)

- 📍 Country: Spain
- 📍 City: Barcelona
- 📦 Outdoor Units: Heat Recovery VRF
- 📦 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 1,200HP

CT University

- 📍 Country: India
- 📍 City: Ludhiana
- 📦 Outdoor Units: Heat Pump VRF
- 📦 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 1,332HP

Ain Al Fayda Emirati Housing Development-5000 Villas

- 📍 Country: UAE
- 📍 City: Al Ain
- 📦 Outdoor Units: Tropical Heat Pump VRF
- 📦 Indoor Units: Wall-mounted & Cassette
- 📊 Total Capacity: 80,000HP

103 Hospital

- 📍 Country: Laos
- 📍 City: Vientiane
- 📦 Outdoor Units: Heat Pump VRF
- 📦 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 1,560HP

Migros in Turkey

- 📍 Country: Turkey
- 📦 Outdoor Units: Heat Pump VRF
- 📦 Indoor Units: Duct, Cassette and Wall-mounted
- 📊 Total Capacity: 9,000HP
- 📅 Completion Year: 2018

2018 Russia World Cup Stadiums

- 📍 Country: Russia
- 📦 Products: Heat Pump VRF
- 📍 Place: Luzhnik Stadium (Final Match)
- 📍 Kaliningrad Stadium
- 📍 Central Stadium



MCAC Learning Academy

Objective

Midea CAC Learning Academy aims to provide training to the sales personnel as well as technical personnel in order to increase the utilization for your Midea CAC equipment. Once you have purchased equipment from Midea CAC, taking care of the equipment is topmost priority. Midea CAC Learning Academy offers training courses to learn firsthand from the manufacturer what it takes to get the best out of your Midea CAC product. The goal of Midea CAC Learning Academy is to provide product specific training, safe work procedures and expertise in carrying out the installation and maintenance of Midea CAC products as well as teaching the main selling points in order to help the sales people sell the Midea CAC products with ease.

Training Centers

Our world class training centers provide knowledge and skills necessary to efficiently deploy Midea CAC technologies. The training centers include dedicated laboratories to provide hands-on experiences with various systems, components and controls to refresh and enhance the skills of your sales, design and installation and service teams. Right now we operate our trainings from the below two locations:

1. Midea CAC Training Center

Address: Midea CAC Training Center, 2nd Floor, Building 6, Midea Global Innovation Center, Beijiao, Shunde, Foshan, China
Pin- 528311

The Midea CAC Training Center is situated 70 kilometers from Baiyun Guangzhou International Airport.

Products: VRF, M-Thermal

2. Chongqing Midea Training Center

Address: No. 15, Qiangwei Road, Nan'an District, Chongqing, China

Chongqing Midea Training Center is 35 kilometers from Chongqing International Airport.

Products: Centrifugal Chiller, Screw/Scroll Chiller and Terminals



VRF training



M-Thermal training



Chiller training

Global Technical Trainings

The training courses by Midea CAC Learning Academy are divided into the following two categories with different targeted audiences for each.

Design and Application Trainings: The design and application trainings for various products are basically for the sales personnel selling Midea CAC products in order to give them basic understanding about the main features. The trainings are conducted on a global level inviting sales engineers, technical engineers, consultants and project designers from different parts of the world.

Main Courses Offered:

1. Introduction to main Selling points and Features
2. Installation and Commissioning
3. Control Systems
4. Selection Software



Products: VRF, M-Thermal, Chillers and Terminals

After Sales- Service Trainings: These trainings are dedicated for the After Sales/ Service personnel in order for them to better carry out the installation, commissioning and maintenance of Midea CAC products. Technical person and engineers from different parts of the world are invited to take part in these trainings.

Main Courses Offered:

1. Product Electric Control and Refrigerant System
2. Control Systems
3. Installation and Commissioning Demonstration
4. Troubleshooting and Maintenance

Products: VRF, M-Thermal, Chillers and Terminals

Highly Skilled Trainers: The trainers for various courses by Midea CAC Learning Academy are expert people with vast experiences in their field. Most of them have a deep insight about the global HVAC market and help the attendees to better understand the CAC products.

Training Certificates:

The attendees for Global trainings are provided a training certificate highlighting the courses discussed in the training, signed by Mr. Jason Zhao, General Manager of Midea CAC Overseas Sales Company.

Registration:

You can contact your respective Midea contact point to provide you with the complete schedule about the global technical trainings as well as how to register for these trainings.



Engineering Capability

Midea Tool and Support

Midea dedicated to provide the best HVAC engineering support and solutions focused on effectively designed, built, supervised, and maintained throughout the lifecycle, providing our customers a faster, easier, and a more accurate way in everyday duties.



MSSP-Drag/Drop Design

MSSP-Drag/Drop design enables an easy and quick selection and provides comprehensive system design reports and calculations.

Note: MSSP (Midea Selection Software Platform)



MSSP-CAD Design

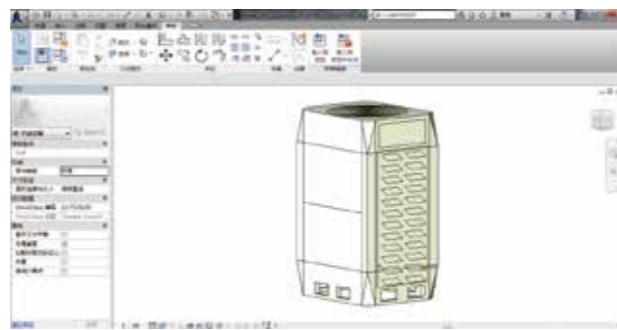
MSSP-CAD design enables an visual and fast selection and provides comprehensive system design reports and calculations.

Note: MSSP (Midea Selection Software Platform)



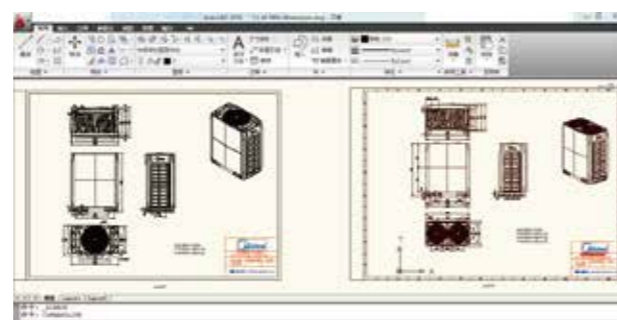
Revit Family

Midea revit is developed to make 3D design of Midea products easier than the previous program. It enables engineers to check 3D images from design stage and prevents possible issues of the installation stage.



CAD Drawing

CAD enables faster and a more accurate design of Midea products.

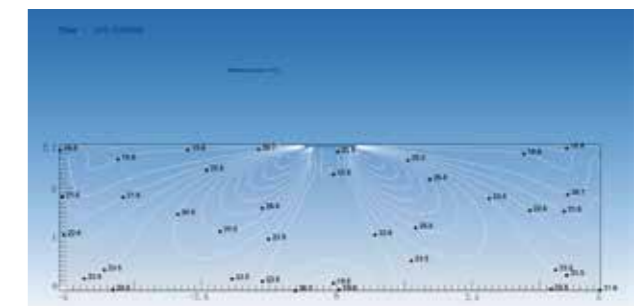
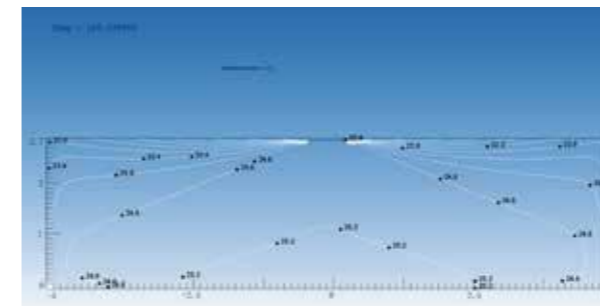
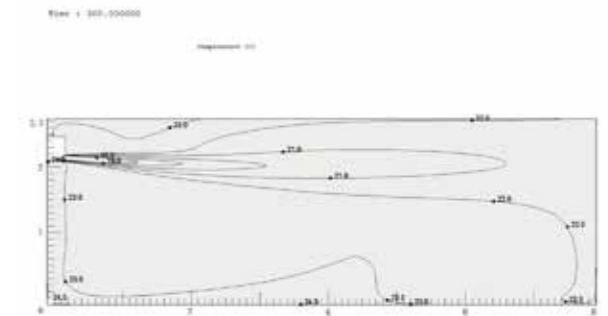
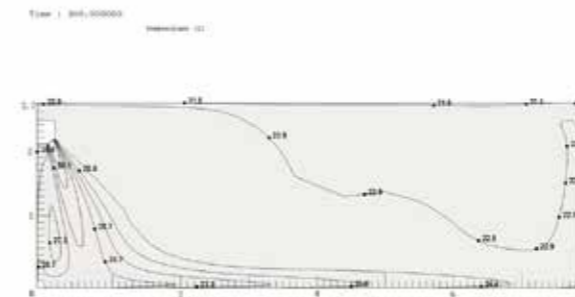


Simulation

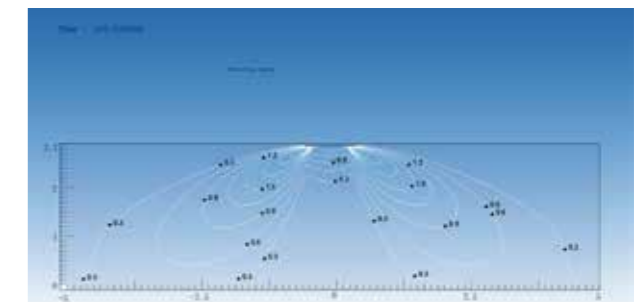
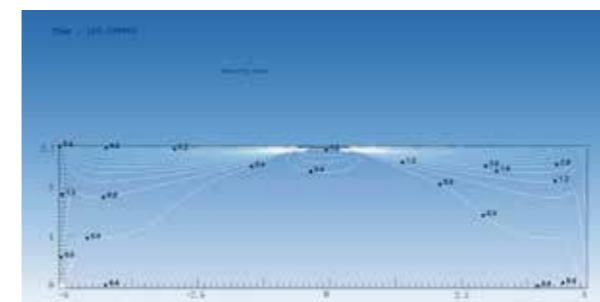
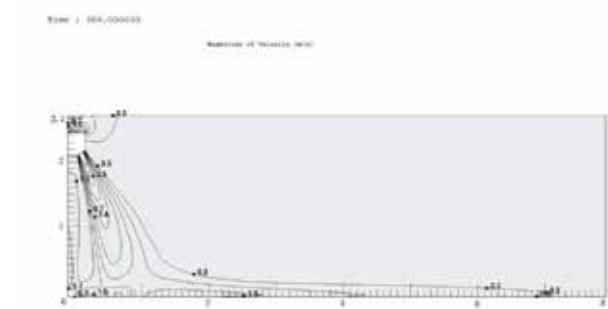
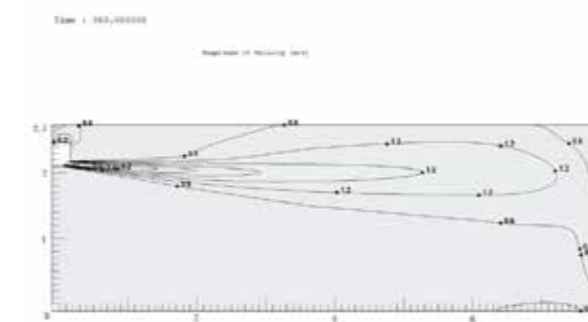
CFD (Computational Fluid Dynamics)

CFD Analysis is applied in areas of estimating: indoor airflow and temperature distribution. By running a simulation before construction, engineers estimate possible issues and find optimal solutions of malfunction that could occur after construction

Temperature distribution



Airflow distribution





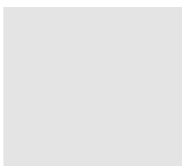
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01

OUTDOOR UNITS

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VRF SYSTEM



VRF **V6/V6-i** Series

Heat pump
 V6: 8~96HP, max. 3 modules can be combined
 V6-i: 8~32HP, cannot be combined
 All DC inverter compressors
 All DC fan motors



VRF **VC Pro** Series

Cooling only
 Max. 3 modules can be combined
 8~90HP
 All DC inverter compressors
 All DC fan motors



VRF **V4+R** 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+W** Series

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



VRF **V4+i** Series

Heat pump, cannot be combined
 7~16HP
 DC inverter compressor
 All DC fan motors for 20-33.5kW models
 DC fan motor + AC fan motor for 40-45kW models



VRF **Mini** Series





Heat pump and cooling only are both available, cannot be combined
 2.5~6.5HP
 DC inverter compressor
 All DC fan motors

OUTDOOR UNIT LINEUP




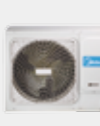
Connectable VRF

ODU Lineup

ODU Lineup





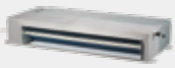


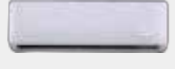




HP		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40		42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	89	90	92	94	96
VRF V6 SERIES		Single unit														Multi combination																																
VRF VC Pro SERIES		Single unit														Multi combination																																
VRF V4 PLUS R SERIES		Single unit					Multi combination																																									
VRF V4 PLUS W SERIES		Single unit				Multi combination																																										

Single VRF

HP		2.5	3	4	4.5	5	6	6.5	7	8	9	10	12	14	16	18	20	22		24	26	28	30	32
VRF V6-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	
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	
VRF MINI SERIES (HEAT PUMP)			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	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	
VRF MINI SERIES (COOLING ONLY)		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	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	Single unit	

Multi combination Single unit

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	Medium static pressure																								
	High static pressure																								
	Fresh air processing unit																								
Wall mounted																									
Ceiling & floor																									
Floor standing -concealed																									
Floor standing - exposed																									
Console																									

2nd Gen. Indoor Units¹ 1st Gen. Indoor Units²

- Notes:
1. Fan motors of this series are all DC type.
 2. Fan motors of this series are AC type except the wall mounted and console units.
- Fresh air processing unit is not available for V4+R, V4+W and Mini VRF Series.



OUTDOOR UNITS

VRF V6 SERIES
VRF V6-i SERIES
VRF VC Pro SERIES
VRF V4 PLUS R SERIES
VRF V4 PLUS W SERIES
VRF V4 PLUS I SERIES
VRF MINI SERIES

OUTDOOR UNITS

- High Efficiency
- Wide Application Range
- High Reliability
- Enhanced Comfort
- Easy Installation and Service



Energy Management System (EMS)

- Floating refrigerant temperature to balance comfort and efficiency

The evaporating temperature (in cooling) and condensing temperature (in heating) are automatically adjusted according to both indoor and outdoor temperature to maximize the comfort and energy efficiency.

- Output limitation during electricity supply restrictions

With the integration of EMS, for projects with temporary electricity supply restrictions, V6 can be set to output **40-100%** capacity.



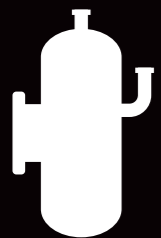
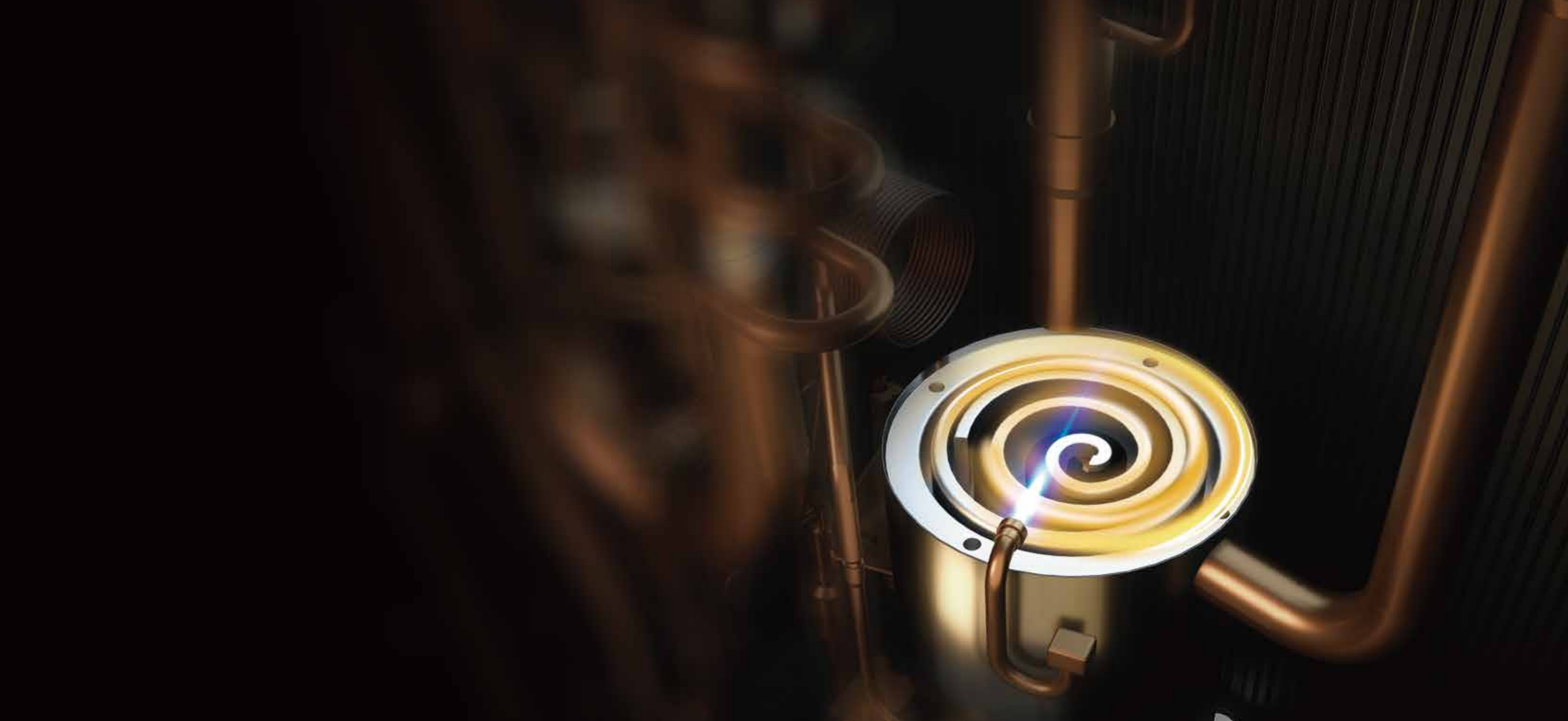
Wide Operation Range

The V6 VRF can operate stably in a wide ambient temperature range:

from **-5°C** to **54°C** in cooling mode and from **-25°C** to

24°C in heating mode.





Enhanced Vapor Injection (EVI) Compressor

Thanks to the vapor injection DC inverter compressor, the V6 VRF can run heating mode stably down to **-25°C**, and the heating capacity can be improved greatly.



01

02



01

Precise Oil Control Technology

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

Compressor internal oil separation.

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

Oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.

Auto oil return program monitors the running time and system status to ensure reliable oil return.



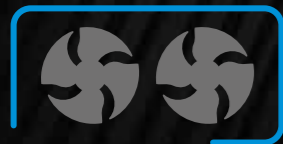
02

Plate Heat Exchanger (PHE) Subcooling

Plate Heat Exchanger as a secondary intercooler boosts up refrigerant subcooling and improves **10%** energy efficiency.

High Efficiency G Shape Heat Exchanger

24-32HP units use a high efficiency 3-row G-type heat exchanger with a heat exchange area 1.5 times that of the 22HP unit. The 24-32HP units also use super big size fan which diameter is up to 750mm.



01
3-row G-type
heat



02
Up to 750mm
diameter fan

02

01

Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 96HP, which is the world's largest single-system VRF capacity.

01 24/26/28/30/32HP
(with dual fans)

02 24-96HP

Total piping length: 1000m

Longest piping length - actual (equivalent): 175m (200m)

Longest piping length after first branch: 90m

Level difference between IDUs: 30m

Long Piping Capability

Total piping length: 1000m

Longest piping length - actual (equivalent): 175m (200m)

Longest piping length after first branch: 90m

Level difference between IDUs and ODU - ODU above (below): 90m (110m)

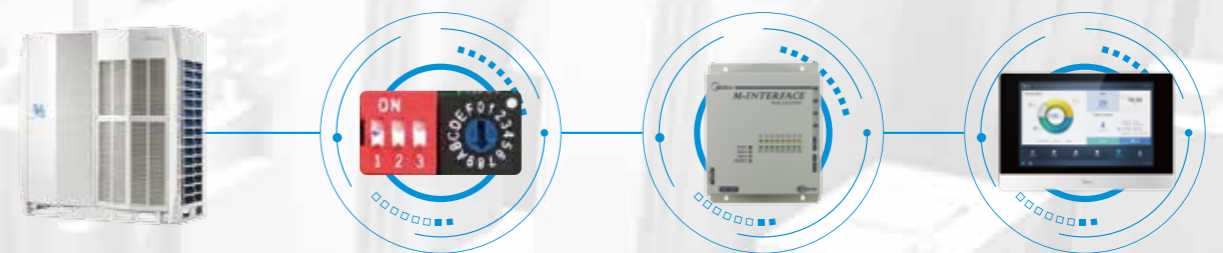
Level difference between IDUs: 30m



Triple Configurations

Triple (local/remote/network) configurations greatly simplified installation, commissioning and servicing.

- Field local configuration achieves quick and easy on-site settings, simplifies installation and commissioning.
- System checking and settings also can be easily achieved via wired and centralized controller, making the configuration more flexible and convenient.
- A desktop or laptop PC can be used for browser-based access to achieve system configurations through IMM Pro gateway via a LAN connection.





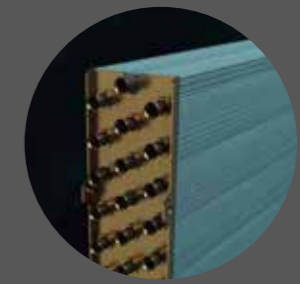
Anti-corrosion Protection

Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life. The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.



01 Screws / bolts / gaskets

Standard products:
300h of neutral salt mist
Heavy anti-corrosion products:
720h of neutral salt mist



04 Heat exchanger aluminum foil

Standard products:
72h of neutral salt mist
Heavy anti-corrosion products:
1000h of neutral salt mist
140h of acid salt mis



02 Fan motor

Standard products:
72h of neutral salt mist
Heavy anti-corrosion products:
240h of neutral salt mist



Heat exchanger copper pipe

Standard products:
24h of neutral salt mist
Heavy anti-corrosion products:
120h of neutral salt mist



05 Painted sheet metal

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

03 Electric control box case

Standard products:
96h of neutral salt mist
Heavy anti-corrosion products:
240h of neutral salt mist

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

Outdoor Unit can resist 27 years of simulated severe corrosion under a salt contaminated traffic environment



UL Anti-Corrosion Certificate

It has been certified by UL that our VRF outdoor unit can withstand 27 years of simulated severe corrosion under a salt contaminated traffic environment.

Note: UL Anti-Corrosion certificate is only available for VRF V6/V6-i Series.



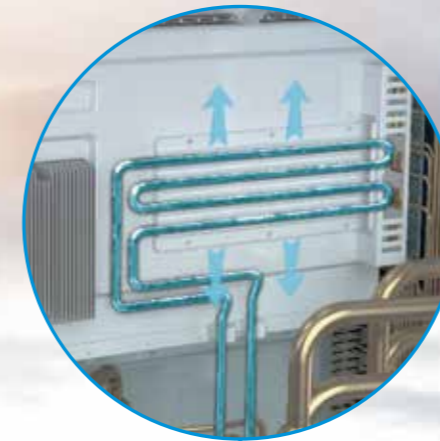
Duty Cycling

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



Refrigerant Cooling PCB


The V6 VRF uses refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components by about 8 degrees, guaranteeing the stable and safe running of the control system.




Backup Operation

In units with two compressors, if one compressor fails, the other compressor can run on its own for up to 4 days, allowing time for maintenance or repair whilst maintaining comfort.

 Operation compressor

 Standby compressor

 Failed compressor



Auto Snow-blowing Function*

The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.

*This function is available as a customization option.



Dust-clean function*

The innovatively designed dust-clean function enables the outdoor unit to prevent the dust by itself.

*This function is available as a customization option.

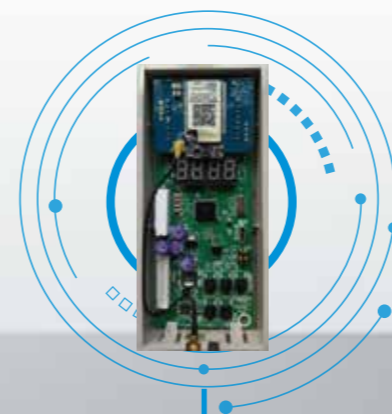


Automatic Refrigerant Detecting/Charging/Recycling

The temperature and pressure of refrigerant can be real-time monitored by the outdoor unit. When the level of refrigerant is too low or too high, this can cause damage to the unit and poor performance. V6 outdoor unit can detect excessive or insufficient amounts of refrigerant, to ensure consistent performance.

Automatic refrigerant charging and recycling make installation and service easier and more efficient.

*Automatic refrigerant charging and recycling functions are available as a customization option.



Optional Multifunctional PCB

An optional multifunctional small PCB can be installed on the unit's side columns, enabling installation and service engineers to activate Auto-commissioning or check the operating status without removing the front panel. It can also perform automatic data backup of the last 30 minutes' operating record.



Multi Silent Modes

1 4 night silent modes, 3 silent modes and 4 super silent modes selections, provide more freedom and convenience to match the customer needs.



- In night silent mode and silent mode, only maximum fan speed is limited to meet the normal silent requirement.

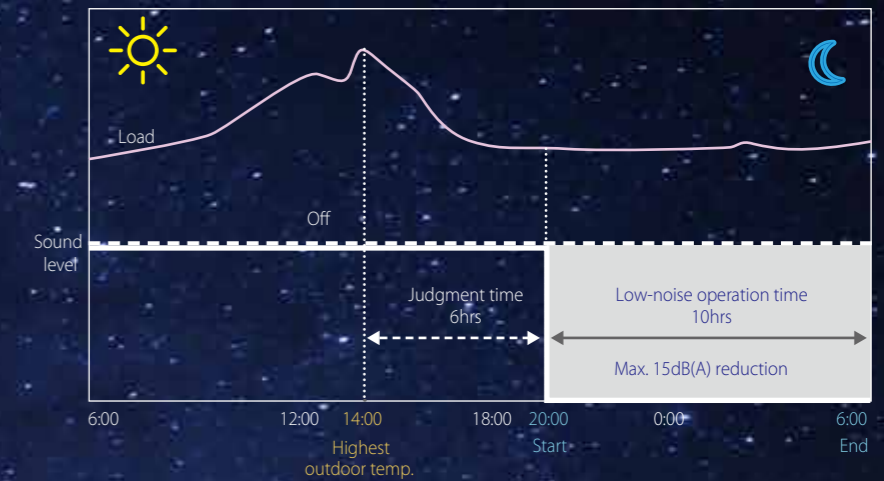


- In super silent mode, both maximum fan speed and compressor frequency are limited to meet higher silent requirement.

2 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



Notes: This function can be activated on site. Temperature (load) curve shown in the graph is just an example.

Indoor Units
VRF indoor units

Fresh Air Processing Unit
100% fresh air supply

Ventilation
Heat recovery ventilator (HRV)

AHU Connection Kit
Connect to third party DX AHU

Control Systems
Smart control systems



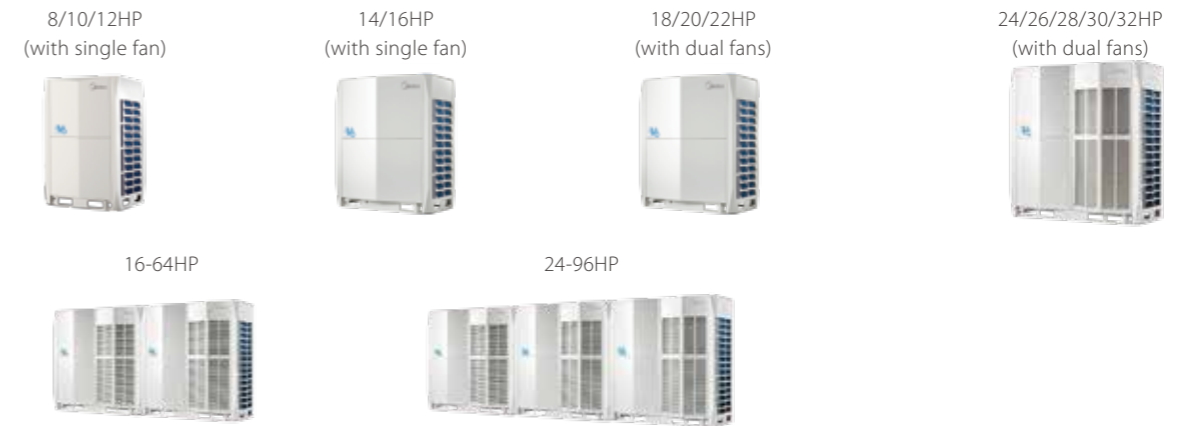
VRF V6 Series Heat Pump

Optimized design for small to large buildings

- ▶ Energy Management System (EMS)
- ▶ Enhanced Vapor Injection (EVI) Compressor
- ▶ Triple Configurations
- ▶ High Efficiency G-Shape Heat Exchanger
- ▶ ESP up to 60Pa
- ▶ Plate Heat (PHE) Subcooling
- ▶ Precise Oil Control Technology
- ▶ Multi Silent Modes
- ▶ Duty Cycling
- ▶ Backup Operation
- ▶ UL Anti-Corrosion Certificate
- ▶ Refrigerant Cooling PCB
- ▶ Auto Snow-blowing Function
- ▶ Dust-clean Function
- ▶ Optional Multifunction PCB
- ▶ Automatic Refrigerant Detecting/Charging/Recycling

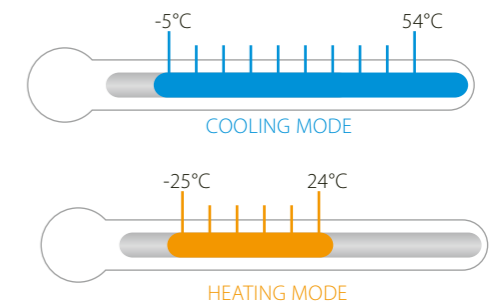
Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 96HP, which is the world's largest single-system VRF capacity.



Wide Operation Range

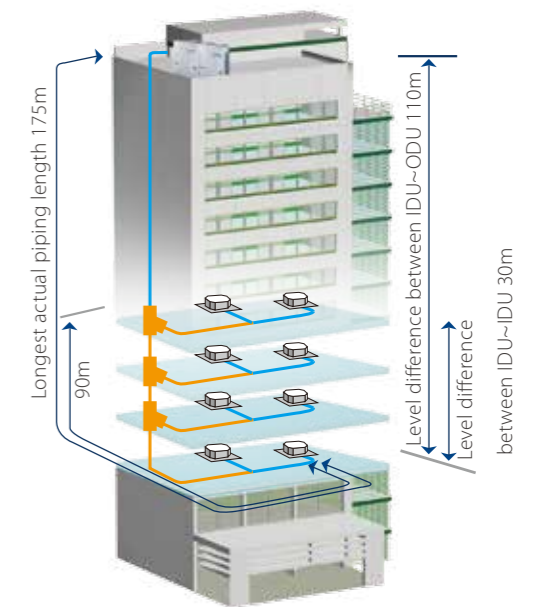
The V6 VRF can operate stably in a wide ambient temperature range: from -5°C to 54°C in cooling mode and from -25°C to 24°C in heating mode.



Long Piping Capability

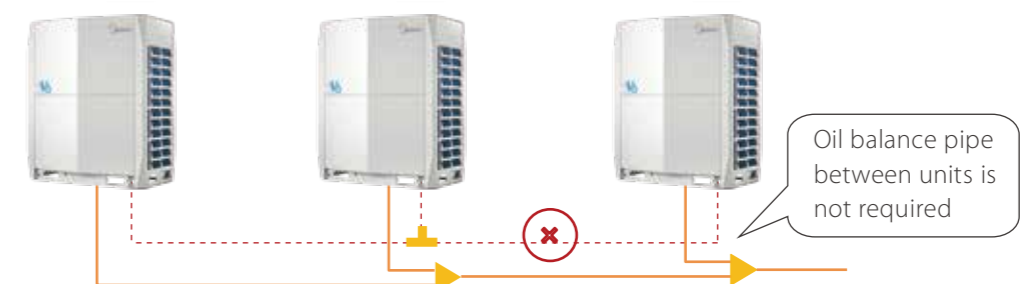
- Total piping length: 1000m
- Longest piping length – actual (equivalent): 175m (200m)
- Longest piping length after first branch: 40/90*m
- Level difference between IDUs and ODU – ODU above (below): 90m (110m)
- Level difference between IDUs: 30m

*The longest length after first branch is 40m as standard but can be extended to up to 90m under certain conditions. Please contact your local Midea dealer for further information.



Oil Balance pipe not required

With the new oil management system, there is no need of oil balance pipe.



VRF V6 Series - Heat Pump

380~415V, 3N, 50(60)Hz



Capacity		HP	8	10	12	14
Model			MV6-252WV2GN1	MV6-280WV2GN1	MV6-335WV2GN1	MV6-400WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling ¹	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	5.3	6.3	8.7	9.9
	EER	kW/kW	4.75	4.45	3.85	4.05
Heating ² (Rated)	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	4.6	5.2	6.6	8.5
	COP	kW/kW	5.50	5.40	5.10	4.70
Heating ² (Max)	Capacity	kW	27.0	31.5	37.5	45.0
		kBtu/h	92.1	107.5	128.0	153.5
	Power input	kW	5.16	6.10	7.88	10.27
	COP	kW/kW	5.23	5.16	4.76	4.38
Connectable Indoor Unit	Total capacity	50-130% of outdoor unit capacity				
	Max. quantity	13	16	20	23	
Compressors	Type	DC inverter				
	Quantity	1				
Fan motors	Type	DC				
	Quantity	1				
	Max. ESP	Pa	20 default; 60 customization option			
Refrigerant	Type	R410A				
	Factory charge	kg	11			
Pipe connections ³	Liquid pipe	mm	Φ12.7		Φ15.9	Φ15.9
	Gas pipe	mm	Φ25.4		Φ28.6	Φ31.8
Airflow rate	m ³ /h		11000		13000	
Sound pressure level ⁴	dB(A)		58		60	
Net dimensions (WxHxD)	mm		990x1635x790		1340x1635x850	
Packed dimensions (WxHxD)	mm		1090x1805x860		1405x1805x910	
Net weight	kg		227		277	
Gross weight	kg		242		304	
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			



Capacity		HP	16	18	20	22
Model			MV6-450WV2GN1	MV6-500WV2GN1	MV6-560WV2GN1	MV6-615WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling ¹	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	12.0	12.5	15.1	18.4
	EER	kW/kW	3.75	4.00	3.70	3.35
Heating ² (Rated)	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	9.8	10.6	12.7	15.0
	COP	kW/kW	4.60	4.70	4.40	4.10
Heating ² (Max)	Capacity	kW	50.0	56.0	63.0	69.0
		kBtu/h	170.6	191.1	215.0	235.4
	Power input	kW	11.76	12.84	15.29	17.78
	COP	kW/kW	4.25	4.36	4.12	3.88
Connectable Indoor Unit	Total capacity	50-130% of outdoor unit capacity				
	Max. quantity	26	29	33	36	
Compressors	Type	DC inverter				
	Quantity	1				
Fan motors	Type	DC				
	Quantity	1				
	Max. ESP	Pa	20 default; 60 customization option			
Refrigerant	Type	R410A				
	Factory charge	kg	13			
Pipe connections ³	Liquid pipe	mm	Φ15.9		Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8		Φ31.8	Φ31.8
Airflow rate	m ³ /h		13000		17000	
Sound pressure level ⁴	dB(A)		61	62		63
Net dimensions (WxHxD)	mm		1340x1635x850		1405x1635x825	
Packed dimensions (WxHxD)	mm		1405x1805x910		1405x1805x910	
Net weight	kg		277		348	
Gross weight	kg		304		368	
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF V6 Series - Heat Pump

380~415V, 3N, 50(60)Hz



Capacity		HP	24	26	28
Model			MV6-670WV2GN1	MV6-730WV2GN1	MV6-785WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling ¹	Capacity	kW	67.0	73.0	78.5
		kBtu/h	228.6	249.1	267.8
	Power input	kW	18.1	20.9	24.2
	EER	kW/kW	3.70	3.49	3.25
Heating ² (Rated)	Capacity	kW	67.0	73.0	78.5
		kBtu/h	228.6	249.1	267.8
	Power input	kW	14.9	17.6	20.7
	COP	kW/kW	4.50	4.15	3.80
Heating ² (Max)	Capacity	kW	75.0	81.5	87.5
		kBtu/h	255.9	278.1	298.6
	Power input	kW	18.07	21.01	24.44
	COP	kW/kW	4.15	3.88	3.58
Connectable Indoor Unit	Total capacity	50-130% of outdoor unit capacity			
	Max. quantity	39	43	46	
Compressors	Type	DC inverter			
	Quantity	2			
Fan motors	Type	DC			
	Quantity	2			
	Max. ESP	Pa	20 default; 60 customization option		
Refrigerant	Type	R410A			
	Factory charge	kg	22		
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ22.2
	Gas pipe	mm	Φ31.8		Φ31.8
Airflow rate	m ³ /h		25000		
Sound pressure level ⁴	dB(A)		64		
Net dimensions (WxHxD)	mm		1730 x 1830 x 850		
Packed dimensions (WxHxD)	mm		1800x2000x910		
Net weight	kg		430		
Gross weight	kg		453		
Ambient temp. operating range	Cooling	°C	-5 to 54		
	Heating	°C	-25 to 24		



Capacity		HP	30	32
Model			MV6-850WV2GN1	MV6-900WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)	
Cooling ¹	Capacity	kW	85.0	90.0
		kBtu/h	290.0	307.1
	Power input	kW	27.4	31.0
	EER	kW/kW	3.10	2.90
Heating ² (Rated)	Capacity	kW	85.0	90.0
		kBtu/h	290.0	307.1
	Power input	kW	23.0	25.7
	COP	kW/kW	3.70	3.50
Heating ² (Max)	Capacity	kW	95.0	100.0
		kBtu/h	324.1	341.2
	Power input	kW	27.78	30.67
	COP	kW/kW	3.42	3.26
Connectable Indoor Unit	Total capacity	50-130% of outdoor unit capacity		
	Max. quantity	50	53	
Compressors	Type	DC inverter		
	Quantity	2		
Fan motors	Type	DC		
	Quantity	2		
	Max. ESP	Pa	20 default; 60 customization option	
Refrigerant	Type	R410A		
	Factory charge	kg	25	
Pipe connections ³	Liquid pipe	mm	Φ22.2	Φ22.2
	Gas pipe	mm	Φ38.1	Φ38.1
Airflow rate	m ³ /h		24000	
Sound pressure level ⁴	dB(A)		64	
Net dimensions (WxHxD)	mm		1730 x 1830 x 850	
Packed dimensions (WxHxD)	mm		1800x2000x910	
Net weight	kg		475	
Gross weight	kg		507	
Ambient temp. operating range	Cooling	°C	-5 to 54	
	Heating	°C	-25 to 24	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF V6 Series - Heat Pump

380~415V, 3N, 50(60)Hz



Capacity		HP	34	36	38	40
Model			MV6-950WV2GN1	MV6-1015WV2GN1	MV6-1065WV2GN1	MV6-1120WV2GN1
Combination type			12HP+22HP	14HP+22HP	16HP+22HP	12HP+28HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling ¹	Capacity	kW	95.0	101.5	106.5	112.0
		kBtu/h	324.1	346.3	363.4	382.1
	Power input	kW	27.1	28.2	30.4	32.9
	EER	kW/kW	3.51	3.59	3.51	3.41
Heating ² (Rated)	Capacity	kW	95.0	101.5	106.5	112.0
		kBtu/h	324.1	346.3	363.4	382.1
	Power input	kW	21.6	23.5	24.8	27.2
	COP	kW/kW	4.40	4.32	4.30	4.11
Heating ² (Max)	Capacity	kW	106.5	114.0	119.0	125.0
		kBtu/h	363.4	389.0	406.0	426.5
	Power input	kW	25.66	28.06	29.55	32.32
	COP	kW/kW	4.15	4.06	4.03	3.87
Connectable Indoor Unit	Total capacity	50-130% of outdoor unit capacity				
	Max. quantity	56	59	63	64	
Compressors	Type	DC inverter				
	Quantity	3				
Fan motors	Type	DC				
	Quantity	3				
Refrigerant	Type	R410A				
	Factory charge	kg	11+17	13+17	11+22	
Pipe connections ³	Liquid pipe	mm	Φ19.1	Φ19.1		Φ19.1
	Gas pipe	mm	Φ31.8	Φ38.1		Φ41.3
Airflow rate	m ³ /h	28000	30000		36000	
Sound pressure level ⁴	dB(A)	65				
Net dimensions (WxHxD)	mm	(990×1635×790)+(1340×1635×825)		(1340×1635×850)+(1340×1635×825)		(990×1635×790)+(1730×1830×850)
Packed dimensions (WxHxD)	mm	(1090×1805×860)+(1405×1805×910)		(1405×1805×910)×2		(1090×1805×860)+(1800×2000×910)
Net weight	kg	227+348	277+348		227+430	
Gross weight	kg	242+368	304+368		242+453	
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			



Capacity		HP	42	44	46	48
Model			MV6-1175WV2GN1	MV6-1230WV2GN1	MV6-1285WV2GN1	MV6-1345WV2GN1
Combination type			20HP+22HP	22HP+22HP	22HP+24HP	22HP+26HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling ¹	Capacity	kW	117.5	123.0	128.5	134.5
		kBtu/h	400.9	419.7	438.4	458.9
	Power input	kW	33.5	36.7	36.5	39.3
	EER	kW/kW	3.51	3.35	3.52	3.43
Heating ² (Rated)	Capacity	kW	117.5	123.0	128.5	134.5
		kBtu/h	400.9	419.7	438.4	458.9
	Power input	kW	27.7	30.0	29.9	32.6
	COP	kW/kW	4.24	4.10	4.30	4.13
Heating ² (Max)	Capacity	kW	132.0	138.0	144.0	150.5
		kBtu/h	450.4	470.9	491.3	513.5
	Power input	kW	33.07	35.57	35.86	38.79
	COP	kW/kW	3.99	3.88	4.02	3.88
Connectable Indoor Unit	Total capacity	50-130% of outdoor unit capacity				
	Max. quantity	64				
Compressors	Type	DC inverter				
	Quantity	4				
Fan motors	Type	DC				
	Quantity	4				
Refrigerant	Type	R410A				
	Factory charge	kg	17×2		17+22	
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ38.1		Φ41.3	
Airflow rate	m ³ /h	34000		42000		
Sound pressure level ⁴	dB(A)	66				
Net dimensions (WxHxD)	mm	(1340×1635×825)×2		(1340×1635×825)+(1730×1830×850)		
Packed dimensions (WxHxD)	mm	(1405×1805×910)×2		(1405×1805×910)+(1800×2000×910)		
Net weight	kg	348×2		348+430		
Gross weight	kg	368×2		368+453		
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

Notes:
 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.
 4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF V6 Series - Heat Pump

380~415V, 3N, 50(60)Hz



Capacity		HP	50	52	54	56
Model			MV6-1400WV2GN1	MV6-1460WV2GN1	MV6-1515WV2GN1	MV6-1570WV2GN1
Combination type			22HP+28HP	26HP+26HP	26HP+28HP	28HP+28HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling ¹	Capacity	kW	140.0	146.0	151.5	157.0
		kBtu/h	477.7	498.2	516.9	535.7
	Power input	kW	42.5	41.8	45.1	48.3
	EER	kW/kW	3.29	3.49	3.36	3.25
Heating ² (Rated)	Capacity	kW	140.0	146.0	151.5	157.0
		kBtu/h	477.7	498.2	516.9	535.7
	Power input	kW	35.7	35.2	38.3	41.3
	COP	kW/kW	3.93	4.15	3.96	3.80
Heating ² (Max)	Capacity	kW	156.0	163.0	169.0	175.0
		kBtu/h	534.0	556.2	576.6	597.1
	Power input	kW	42.22	42.01	45.45	48.88
	COP	kW/kW	3.71	3.88	3.72	3.58
Connectable Indoor Unit	Total capacity	50-130% of outdoor unit capacity				
	Max. quantity	64				
Compressors	Type	DC inverter				
	Quantity	4				
Fan motors	Type	DC				
	Quantity	4				
Refrigerant	Type	R410A				
	Factory charge	kg	17+22		22×2	
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ38.1		Φ41.3	
Airflow rate	m ³ /h	42000		50000		
Sound pressure level ⁴	dB(A)	66				
Net dimensions (WxHxD)	mm	(1340×1635×825)+(1730×1830×850)		(1730×1830×850)×2		
Packed dimensions (WxHxD)	mm	(1405×1805×910)+(1800×2000×910)		(1800×2000×910)×2		
Net weight	kg	348+430		430×2		
Gross weight	kg	368+453		453×2		
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			



Capacity		HP	58	60	62	64
Model			MV6-1635WV2GN1	MV6-1685WV2GN1	MV6-1750WV2GN1	MV6-1800WV2GN1
Combination type			28HP+30HP	28HP+32HP	30HP+32HP	32HP+32HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling ¹	Capacity	kW	163.5	168.5	175.0	180.0
		kBtu/h	557.9	574.9	597.1	614.2
	Power input	kW	51.6	55.2	58.5	62.1
	EER	kW/kW	3.17	3.05	2.99	2.90
Heating ² (Rated)	Capacity	kW	163.5	168.5	175.0	180.0
		kBtu/h	557.9	574.9	597.1	614.2
	Power input	kW	43.6	46.4	48.7	51.4
	COP	kW/kW	3.75	3.63	3.59	3.50
Heating ² (Max)	Capacity	kW	182.5	187.5	195.0	200.0
		kBtu/h	622.7	639.8	665.3	682.4
	Power input	kW	52.22	55.12	58.45	61.35
	COP	kW/kW	3.49	3.40	3.34	3.26
Connectable Indoor Unit	Total capacity	50-130% of outdoor unit capacity				
	Max. quantity	64				
Compressors	Type	DC inverter				
	Quantity	4				
Fan motors	Type	DC				
	Quantity	4				
Refrigerant	Type	R410A				
	Factory charge	kg	22+25		25×2	
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ41.3		Φ41.3	
Airflow rate	m ³ /h	49000		48000		
Sound pressure level ⁴	dB(A)	66				
Net dimensions (WxHxD)	mm	(1730×1830×850)×2		(1730×1830×850)×2		
Packed dimensions (WxHxD)	mm	(1800×2000×910)×2		(1800×2000×910)×2		
Net weight	kg	430+475		475×2		
Gross weight	kg	453+507		507×2		
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

Notes:
 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.
 4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF V6 Series - Heat Pump

220V, 3Ph, 60Hz - Independent Unit

HP			8	10	12	14	16
Model name			MV6-252WV2DN1	MV6-280WV2DN1	MV6-335WV2DN1	MV6-400WV2DN1	MV6-450WV2DN1
Power supply		V/Ph/Hz	220/3/60				
Cooling ¹	Capacity	kW	25.2	28.0	33.5	40.0	45.0
		kBtu/h	86.0	95.5	114.3	136.5	153.5
	Power input (ISO)	kW	4.80	5.70	7.08	8.70	10.27
	EER (ISO)	kW/kW	5.25	4.91	4.73	4.60	4.38
	IEER (ISO)	kW/kW	9.70	9.09	8.75	8.51	8.12
Heating ² (Rated)	Capacity	kW	25.2	28.0	33.5	40.0	45.0
		kBtu/h	86.0	95.5	114.3	136.5	153.5
	Power input (ISO)	kW	4.56	5.12	6.65	8.47	9.62
	COP (ISO)		5.53	5.47	5.04	4.72	4.68
Heating ² (Max)	Capacity	kW	27.0	31.5	37.5	45.0	50.0
		kBtu/h	92.1	107.5	128.0	153.5	170.6
	Power input (ISO)	kW	5.13	6.03	7.97	10.23	11.56
	COP (ISO)		5.26	5.23	4.70	4.40	4.32
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity				
	Maximum quantity		13	16	20	23	26
Compressor	Type		DC inverter				
	Quantity		1				
	Oil type		FV68H				
	Start-up method		Soft start				
Fan	Type		Propeller				
	Motor type		DC				
	Quantity		1		2		
	Motor output	kW	0.56		0.56x2		
	Static pressure	Pa (in.wg.)	0-20 (0-0.08) default; 20-60 (0.08-0.24) customized				
	Airflow rate	m ³ /h (CFM)	11000 (6471)			14000 (8235)	
Drive type		Direct					
Refrigerant	Type		R410A				
	Factory charge	kg (lbs)	11 (24.2)			13 (28.6)	
Pipe connections ³	Liquid pipe	mm (inch)	Φ12.7 (Φ1/2)	Φ12.7 (Φ1/2)	Φ15.9 (Φ5/8)	Φ15.9 (Φ5/8)	Φ15.9 (Φ5/8)
	Gas pipe	mm (inch)	Φ25.4 (Φ1)	Φ25.4 (Φ1)	Φ28.6 (Φ1-1/8)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)
Sound pressure level ⁴		dB(A)	58	58	60	60	61
Net dimensions (WxHxD)	mm		990x1635x790			1340x1635x825	
	inch		39x64-3/8x31-1/8			52-3/4x64-3/8x32-1/2	
Packed dimensions (WxHxD)	mm		1090x1805x860			1405x1805x910	
	inch		42-15/16x71-1/16x33-7/8			55-5/16x71-1/16x35-13/16	
Net weight	kg		227			284	
	lbs		499			625	
Gross weight	kg		248			311	
	lbs		546			684	
Ambient temp. operation range	Cooling	°C (°F)	-5 to 54 (23 to 129)				
	Heating	°C (°F)	-25 to 24 (-13 to 75)				

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF V6 Series - Heat Pump

220V, 3Ph, 60Hz - Independent Unit

HP			18	20	22	24	26	28
Model name			MV6-500WV2DN1	MV6-560WV2DN1	MV6-615WV2DN1	MV6-670WV2DN1	MV6-730WV2DN1	MV6-785WV2DN1
Power supply		V/Ph/Hz	220/3/60					
Cooling ¹	Capacity	kW	50.0	56.0	61.5	67.0	73.0	78.5
		kBtu/h	170.6	191.1	209.8	228.6	249.1	267.8
	Power input (ISO)	kW	11.57	13.66	15.19	16.58	19.11	23.43
	EER (ISO)	kW/kW	4.32	4.10	4.05	4.04	3.82	3.35
	IEER (ISO)	kW/kW	8.01	7.60	7.51	7.49	7.09	6.21
Heating ² (Rated)	Capacity	kW	50.0	56.0	61.5	67.0	73.0	78.5
		kBtu/h	170.6	191.1	209.8	228.6	249.1	267.8
	Power input (ISO)	kW	10.53	12.56	14.61	15.12	17.38	20.23
	COP (ISO)		4.75	4.46	4.21	4.43	4.20	3.88
Heating ² (Max)	Capacity	kW	56.0	63.0	69.0	75.0	81.5	87.5
		kBtu/h	191.1	215.0	235.4	255.9	278.1	298.6
	Power input (ISO)	kW	12.71	15.09	17.32	18.36	20.76	23.94
	COP (ISO)		4.41	4.18	3.98	4.09	3.93	3.66
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity					
	Maximum quantity		29	33	36	39	43	46
Compressor	Type		DC inverter					
	Quantity		2					
	Oil type		FV68H					
	Start-up method		Soft start					
Fan	Type		Propeller					
	Motor type		DC					
	Quantity		2					
	Motor output	kW	0.56x2			0.92x2		
	Static pressure	Pa (in.wg.)	0-20 (0-0.08) default; 20-60 (0.08-0.24) customized					
	Airflow rate	m ³ /h (CFM)	17000 (10000)			25000 (14706)		
Drive type		Direct						
Refrigerant	Type		R410A					
	Factory charge	kg (lbs)	17 (37.4)			21 (46.2)		
Pipe connections ³	Liquid pipe	mm (inch)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)	Φ19.1 (Φ3/4)	Φ22.2 (Φ7/8)	Φ22.2 (Φ7/8)
	Gas pipe	mm (inch)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)	Φ31.8 (Φ1-1/4)
Sound pressure level ⁴		dB(A)	62	63	63	64	64	64
Net dimensions (WxHxD)	mm		1340x1635x825			1730x1830x850		
	inch		52-3/4x64-3/8x32-1/2			68-1/8x72-1/16x33-1/2		
Packed dimensions (WxHxD)	mm		1405x1805x910			1800x2000x910		
	inch		55-5/16x71-1/16x35-13/16			70-7/8x78-3/4x35-13/16		
Net weight	kg		366			438		
	lbs		805			964		
Gross weight	kg		386			461		
	lbs		849			1014		
Ambient temp. operation range	Cooling	°C (°F)	-5 to 54 (23 to 129)					
	Heating	°C (°F)	-25 to 24 (-13 to 75)					

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF V6 Series - Heat Pump 220V, 3Ph, 60Hz - High Efficiency Combination

HP	60			62			64			
Model name (Combination unit)										
Combination type										
Power supply										
Cooling ¹	Capacity	kW			173.0			179.0		
		kBTu/h			569.8			610.7		
	Power input (ISO)	kW			39.73			43.90		
		kW/kW			4.20			4.08		
Heating ² (Rated)	Capacity	kW			167.0			179.0		
		kBTu/h			569.8			610.7		
	Power input (ISO)	kW			36.18			40.24		
		COP (ISO)			4.62			4.45		
Heating ² (Max)	Capacity	kW			187.0			201.0		
		kBTu/h			638.0			685.8		
	Power input (ISO)	kW			43.78			48.53		
		COP (ISO)			4.27			4.14		
Connected indoor unit										
Maximum quantity										
Type										
Quantity										
Oil type										
Start-up method										
Type										
Motor type										
Quantity										
Motor output										
Static pressure										
Airflow rate										
Drive type										
Type										
Factory charge										
Liquid pipe										
Gas pipe										
Sound pressure level ⁴										
Net dimensions (WxHxD)										
Packed dimensions (WxHxD)										
Net weight										
Gross weight										
Ambient temp. operation range										

HP	66			68			70			
Model name (Combination unit)										
Combination type										
Power supply										
Cooling ¹	Capacity	kW			184.0			195.5		
		kBTu/h			627.8			667.0		
	Power input (ISO)	kW			44.74			48.35		
		kW/kW			4.11			4.04		
Heating ² (Rated)	Capacity	kW			184.0			195.5		
		kBTu/h			627.8			667.0		
	Power input (ISO)	kW			40.77			44.86		
		COP (ISO)			4.51			4.36		
Heating ² (Max)	Capacity	kW			206.0			219.0		
		kBTu/h			702.9			747.2		
	Power input (ISO)	kW			49.42			54.03		
		COP (ISO)			4.17			4.05		
Connected indoor unit										
Maximum quantity										
Type										
Quantity										
Oil type										
Start-up method										
Type										
Motor type										
Quantity										
Motor output										
Static pressure										
Airflow rate										
Drive type										
Type										
Factory charge										
Liquid pipe										
Gas pipe										
Sound pressure level ⁴										
Net dimensions (WxHxD)										
Packed dimensions (WxHxD)										
Net weight										
Gross weight										
Ambient temp. operation range										

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF V6 Series - Heat Pump 220V, 3Ph, 60Hz - High Efficiency Combination

HP	72			74			76			78			
Model name (Combination unit)													
Combination type													
Power supply													
Cooling ¹	Capacity	kW			201.0			207.0			213.0		
		kBTu/h			685.8			706.3			726.8		
	Power input (ISO)	kW			49.75			52.28			54.80		
		kW/kW			4.04			3.96			3.89		
Heating ² (Rated)	Capacity	kW			201.0			207.0			213.0		
		kBTu/h			685.8			706.3			726.8		
	Power input (ISO)	kW			45.37			47.63			49.89		
		COP (ISO)			4.43			4.35			4.27		
Heating ² (Max)	Capacity	kW			225.0			231.5			238.0		
		kBTu/h			767.7			789.9			812.1		
	Power input (ISO)	kW			55.07			57.47			59.87		
		COP (ISO)			4.09			4.03			3.98		
Connected indoor unit													
Maximum quantity													
Type													
Quantity													
Oil type													
Start-up method													
Type													
Motor type													
Quantity													
Motor output													
Static pressure													
Airflow rate													
Drive type													
Type													
Factory charge													
Liquid pipe													
Gas pipe													
Sound pressure level ⁴													
Net dimensions (WxHxD)													
Packed dimensions (WxHxD)													
Net weight													
Gross weight													
Ambient temp. operation range													

HP	80			82			84			
Model name (Combination unit)										
Combination type										
Power supply										
Cooling ¹	Capacity	kW			224.5			230.0		
		kBTu/h			766.0			784.8		
	Power input (ISO)	kW			61.65			65.98		
		kW/kW			3.64			3.49		
Heating ² (Rated)	Capacity	kW			224.5			230.0		
		kBTu/h			766.0			784.8		
	Power input (ISO)	kW			54.99			57.84		
		COP (ISO)			4.08			3.98		
Heating ² (Max)	Capacity	kW			250.5			256.5		
		kBTu/h			854.7			875.2		
	Power input (ISO)	kW			65.45			68.63		
		COP (ISO)			3.83			3.74		
Connected indoor unit										
Maximum quantity										
Type										
Quantity										
Oil type										
Start-up method										
Type										
Motor type										
Quantity										
Motor output										
Static pressure										
Airflow rate										
Drive type										
Type										
Factory charge										
Liquid pipe										
Gas pipe										
Sound pressure level ⁴										
Net dimensions (WxHxD)										
Packed dimensions (WxHxD)										
Net weight										
Gross weight										
Ambient temp. operation range										

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.



Indoor Units
VRF indoor units



Fresh Air Processing Unit
100% fresh air supply



Ventilation
Heat recovery ventilator (HRV)



AHU Connection Kit
Connect to third party DX AHU



Control Systems
Smart control systems



VRF V6-i Series Heat Pump

Optimized design
for middle-sized
buildings

- ▶ Energy Management System (EMS)
- ▶ Enhanced Vapor Injection (EVI) Compressor
- ▶ Triple Configurations
- ▶ High Efficiency G-Shape Heat Exchanger
- ▶ ESP up to 60Pa
- ▶ Plate Heat (PHE) Subcooling
- ▶ Precise Oil Control Technology
- ▶ Multi Silent Modes
- ▶ Duty Cycling
- ▶ Backup Operation
- ▶ UL Anti-Corrosion Certificate
- ▶ Refrigerant Cooling PCB
- ▶ Auto Snow-blowing Function
- ▶ Dust-clean Function
- ▶ Optional Multifunction PCB
- ▶ Automatic Refrigerant Detecting/Charging/Recycling

Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 32HP, which is the world's largest single VRF unit capacity.

8/10/12HP
(with single fan)



14/16/18HP
(with single fan)



20/22HP
(with dual fans)

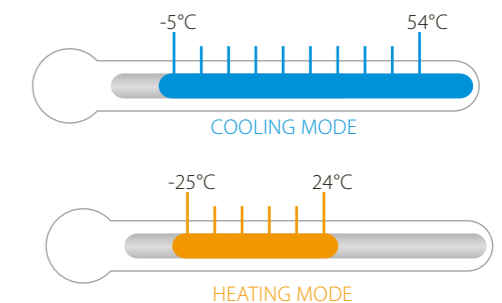


24/26/28/30/32HP
(with dual fans)



Wide Operation Range

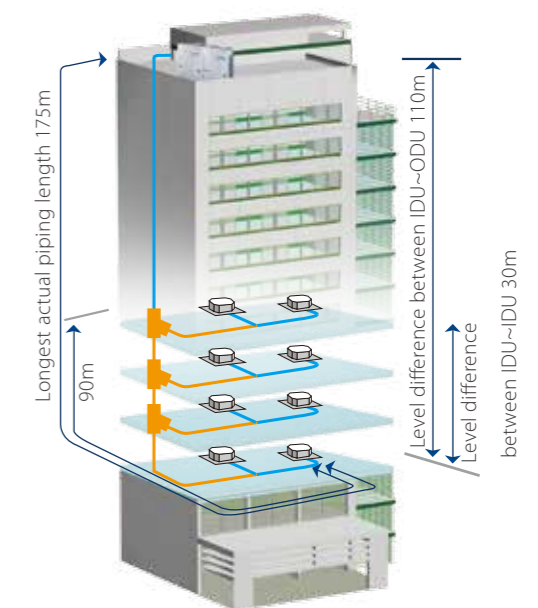
The V6-i VRF can operate stably in a wide ambient temperature range: from -5°C to 54°C in cooling mode and from -25°C to 24°C in heating mode.



Long Piping Capability

- Total piping length: 1000m
- Longest piping length – actual (equivalent): 175m (200m)
- Longest piping length after first branch: 40/90*m
- Level difference between IDUs and ODU – ODU above (below): 90m (110m)
- Level difference between IDUs: 30m

*The longest length after first branch is 40m as standard but can be extended to up to 90m under certain conditions. Please contact your local Midea dealer for further information.



VRF V6-i Series - Heat Pump

380~415V, 3N, 50(60)Hz



Capacity		HP	8	10	12
Model			MV6-i252WV2GN1	MV6-i280WV2GN1	MV6-i335WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling ¹	Capacity	kW	25.2	28	33.5
		kBtu/h	86	95.5	114.3
	Power input	kW	5.5	6.7	8.9
		EER	4.55	4.2	3.75
Heating ² (Rated)	Capacity	kW	25.2	28	33.5
		kBtu/h	86	95.5	114.3
	Power input	kW	4.8	5.5	7.6
		COP	5.2	5.1	4.4
Heating ² (Max)	Capacity	kW	27.0	31.5	37.5
		kBtu/h	92.1	107.5	128.0
	Power input	kW	5.42	6.57	9.13
		COP	4.98	4.79	4.11
Connected indoor unit		Total capacity	50-130% of outdoor unit capacity		
		Maximum quantity	13	16	20
Compressors		Type	DC inverter		
		Quantity	1		
Fan motors		Type	DC		
		Quantity	1		
		Max. ESP	Pa		
			20 Default; 60 Customization Option		
Refrigerant		Type	R410A		
		Factory charge	kg		
			11		
Pipe connections ³		Liquid pipe	mm	Φ12.7	Φ15.9
		Gas pipe	mm	Φ25.4	Φ28.6
Airflow rate		m ³ /h	11000		
Sound pressure level ⁴		dB(A)	58	58	60
Net dimensions (WxHxD)		mm	990×1635×790		
Packed dimensions (WxHxD)		mm	1090×1805×860		
Net weight		kg	227		
Gross weight		kg	242		
Ambient temp. operating range		Cooling	°C		
		Heating	°C		
			-5 to 54		
			-25 to 24		



Capacity		HP	14	16	18
Model			MV6-i400WV2GN1	MV6-i450WV2GN1	MV6-i500WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling ¹	Capacity	kW	40	45	50
		kBtu/h	136.5	153.5	170.6
	Power input	kW	11	12.9	14.7
		EER	3.65	3.5	3.4
Heating ² (Rated)	Capacity	kW	40	45	50
		kBtu/h	136.5	153.5	170.6
	Power input	kW	9.3	10.7	12.2
		COP	4.3	4.2	4.1
Heating ² (Max)	Capacity	kW	45.0	50.0	56.0
		kBtu/h	153.5	170.6	191.1
	Power input	kW	11.23	12.89	14.72
		COP	4.01	3.88	3.80
Connected indoor unit		Total capacity	50-130% of outdoor unit capacity		
		Maximum quantity	23	26	29
Compressors		Type	DC inverter		
		Quantity	1		
Fan motors		Type	DC		
		Quantity	1		
		Max. ESP	Pa		
			20 Default; 60 Customization Option		
Refrigerant		Type	R410A		
		Factory charge	kg		
			13		
Pipe connections ³		Liquid pipe	mm	Φ15.9	Φ19.1
		Gas pipe	mm	Φ31.8	Φ31.8
Airflow rate		m ³ /h	13000		
Sound pressure level ⁴		dB(A)	60	61	62
Net dimensions (WxHxD)		mm	1340×1635×850		
Packed dimensions (WxHxD)		mm	1405×1805×910		
Net weight		kg	277		
Gross weight		kg	304		
Ambient temp. operating range		Cooling	°C		
		Heating	°C		
			-5 to 54		
			-25 to 24		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF V6-i Series - Heat Pump

380~415V, 3N, 50(60)Hz



Capacity		HP	20	22
Model			MV6-i560WV2GN1	MV6-i615WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)	
Cooling ¹	Capacity	kW	56	61.5
		kBtu/h	191.1	209.8
	Power input	kW	16	20.2
		EER	3.5	3.05
Heating ² (Rated)	Capacity	kW	56	61.5
		kBtu/h	191.1	209.8
	Power input	kW	13.8	17.6
		COP	4.05	3.5
Heating ² (Max)	Capacity	kW	63.0	69.0
		kBtu/h	215.0	235.4
	Power input	kW	16.61	20.83
		COP	3.79	3.31
Connected indoor unit		Total capacity	50-130% of outdoor unit capacity	
		Maximum quantity	33	36
Compressors		Type	DC inverter	
		Quantity	2	
Fan motors		Type	DC	
		Quantity	2	
		Max. ESP	Pa	
			20 Default; 60 Customization Option	
Refrigerant		Type	R410A	
		Factory charge	kg	
			17	
Pipe connections ³		Liquid pipe	mm	Φ19.1
		Gas pipe	mm	Φ31.8
Airflow rate		m ³ /h	17000	
Sound pressure level ⁴		dB(A)	63	
Net dimensions (WxHxD)		mm	1340×1635×825	
Packed dimensions (WxHxD)		mm	1405×1805×910	
Net weight		kg	344	
Gross weight		kg	364	
Ambient temp. operating range		Cooling	°C	
		Heating	°C	
			-5 to 54	
			-25 to 24	



Capacity		HP	24	26	28	30	32
Model			MV6-i670WV2GN1	MV6-i730WV2GN1	MV6-i785WV2GN1	MV6-i850WV2GN1	MV6-i900WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)				
Cooling ¹	Capacity	kW	67	73	78.5	85	90
		kBtu/h	228.6	249.1	267.8	290	307.1
	Power input	kW	21.6	21.6	24.9	28.3	32.1
		EER	3.1	3.4	3.15	3	2.8
Heating ² (Rated)	Capacity	kW	67	73	78.5	85	90
		kBtu/h	228.6	249.1	267.8	290	307.1
	Power input	kW	16.8	18.1	21.8	24.3	26.5
		COP	4	4.05	3.6	3.5	3.4
Heating ² (Max)	Capacity	kW	75.0	81.5	87.5	95.0	100.0
		kBtu/h	255.9	278.1	298.6	324.1	341.2
	Power input	kW	20.28	21.57	26.69	29.37	31.58
		COP	3.70	3.78	3.28	3.24	3.17
Connected indoor unit		Total capacity	50-130% of outdoor unit capacity				
		Maximum quantity	39	43	46	50	53
Compressors		Type	DC inverter				
		Quantity	2				
Fan motors		Type	DC				
		Quantity	2				
		Max. ESP	Pa				
			20 Default; 60 Customization Option				
Refrigerant		Type	R410A				
		Factory charge	kg				
			22				
Pipe connections ³		Liquid pipe	mm	Φ19.1	Φ22.2	Φ22.2	Φ31.8
		Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8	Φ38.1
Airflow rate		m ³ /h	25000				
Sound pressure level ⁴		dB(A)	64				
Net dimensions (WxHxD)		mm	1730×1830×850				
Packed dimensions (WxHxD)		mm	1800×2000×910				
Net weight		kg	407	429	475	507	507
Gross weight		kg	430	452	507	507	507
Ambient temp. operating range		Cooling	°C				
		Heating	°C				
			-5 to 54				
			-25 to 24				

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Indoor Units
VRF indoor units

Fresh Air Processing Unit
100% fresh air supply

Ventilation
Heat recovery ventilator (HRV)

AHU Connection Kit
Connect to third party DX AHU

Control Systems
Smart control systems



VRF VC Pro Series Cooling Only

Optimized design for small to large buildings

- ▶ Energy Management System (EMS)
- ▶ Triple Configurations
- ▶ High Efficiency G-Shape Heat Exchanger
- ▶ ESP up to 60Pa
- ▶ Precise Oil Control Technology
- ▶ Multi Silent Modes
- ▶ Duty Cycling
- ▶ Backup Operation
- ▶ Refrigerant Cooling PCB
- ▶ Dust-clean Function
- ▶ Automatic Refrigerant Detecting/Charging

Wide Capacity Range

For single unit, the footprint is small and maximum capacity is up to 30HP. For combined units, maximum three 30HP units can be combined with capacity up to 90HP.

8/10/12/14/16HP
(with single fan)



16-60HP

18/20/22HP
(with dual fans)



24/26/28/30HP
(with dual fans)

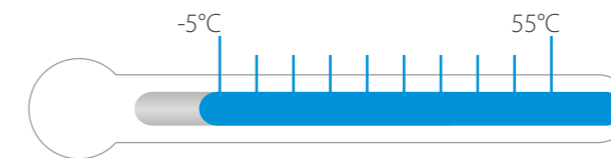


24-90HP



Wide Operation Range

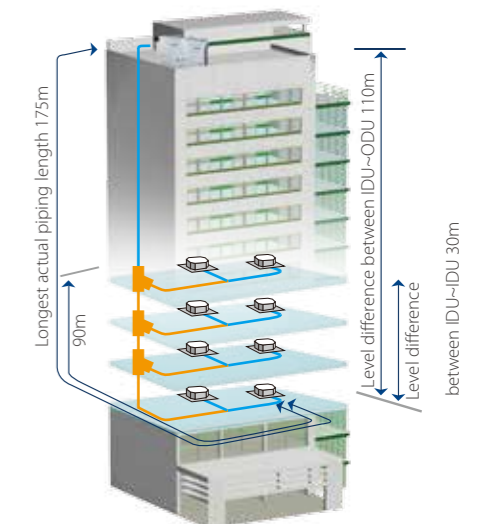
The VC Pro VRF can operate stably in a wide ambient temperature range: from -5°C to 55°C in cooling mode.



Long Piping Capability

- Total piping length: 1000m
- Longest piping length-actual (equivalent): 175m(200m)
- Longest piping length after first branch: 40/90*m
- Level difference between IDUs and ODU-ODU above (below): 90m (110m)
- Level difference between IDUs: 30m

*The longest length after 1st branch is 40m as standard but can be extended up to 90m under certain conditons. Please contact your local Midea dealer for further information.



Oil Balance pipe not required

With the new oil management system, there is no need of oil balance pipe.



VRF VC Pro Series - Cooling Only

380~415V, 3N, 50(60)Hz



HP			8	10	12
Model name			MVC-224WV2GN1	MVC-280WV2GN1	MVC-335WV2GN1
Power supply			380-415/3/50(60)		
Cooling ¹	Capacity	kW	22.4	28.0	33.5
		kBtu/h	76.5	95.6	114.4
	Power input	kW	5.17	6.81	9.13
	EER		4.33	4.11	3.67
Connected indoor unit	Total capacity		50-130%		
	Maximum quantity		13	16	20
Compressor	Type		DC inverter		
	Quantity		1		
Fan	Type		DC		
	Model		ZKSN-560-8-42L		
	Quantity		1		
	Motor output	kW	0.56		
	Max. ESP	Pa	20 default;60 customization option		
	Airflow rate	m ³ /h	10400		10800
Refrigerant	Type		R410A		
	Factory charge	kg	8		
Pipe connections ²	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9
	Gas pipe	mm	Φ25.4	Φ25.4	Φ28.6
Sound pressure level ³		dB(A)	57	58	60
Net dimensions (WxHxD)		mm	960x1615x765		
Packed dimensions (WxHxD)		mm	1025x1790x830		
Net weight		kg	188		
Gross weight		kg	204		
Ambient temp.	Cooling	°C	-5 °C to 55 °C		



HP			14	16	18	20
Model name			MVC-400WV2GN1	MVC-450WV2GN1	MVC-500WV2GN1	MVC-560WV2GN1
Power supply			380-415/3/50(60)			
Cooling ¹	Capacity	kW	40.0	45.0	50.0	56.0
		kBtu/h	136.6	153.7	170.8	191.3
	Power input	kW	10.58	12.26	14.88	17.66
	EER		3.78	3.67	3.36	3.17
Connected indoor unit	Total capacity		50-130%			
	Maximum quantity		23	26	29	33
Compressor	Type		DC inverter			
	Quantity		1		2	
Fan	Type		DC			
	Model		ZKSN-750-8-2		ZKSN-560-8-42L	
	Quantity		1		2	
	Motor output	kW	0.75		0.56x2	
	Max. ESP	Pa	20 default;60 customization option			
	Airflow rate	m ³ /h	11600		12000	12200
Refrigerant	Type		R410A		R410A	
	Factory charge	kg	11		13	
Pipe connections ²	Liquid pipe	mm	Φ15.9		Φ19.1	
	Gas pipe	mm	Φ31.8		Φ31.8	
Sound pressure level ³		dB(A)	60		63	
Net dimensions (WxHxD)		mm	960x1615x765		1250x1615x765	
Packed dimensions (WxHxD)		mm	1025x1790x830		1305x1790x820	
Net weight		kg	197		278	
Gross weight		kg	213		297	
Ambient temp.	Cooling	°C	-5 °C to 55 °C			

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's accessories.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

380~415V, 3N, 50(60)Hz



HP			22	24	26
Model name			MVC-615WV2GN1	MVC-670WV2GN1	MVC-730WV2GN1
Power supply			380-415/3/50(60)		
Cooling ¹	Capacity	kW	61.5	67.0	73.0
		kBtu/h	210.0	228.8	249.3
	Power input	kW	20.23	20.68	23.40
	EER		3.04	3.24	3.12
Connected indoor unit	Total capacity		50-130%		
	Maximum quantity		36	39	43
Compressor	Type		DC inverter		
	Quantity		2		
Fan	Type		DC		
	Model		ZKSN-560-8-42L		
	Quantity		2		
	Motor output	kW	0.56x2		
	Max. ESP	Pa	20 default;60 customization option		
	Airflow rate	m ³ /h	12200		19600
Refrigerant	Type		R410A		
	Factory charge	kg	13		19
Pipe connections ²	Liquid pipe	mm	Φ19.1		Φ22.2
	Gas pipe	mm	Φ31.8		
Sound pressure level ³		dB(A)	63		64
Net dimensions (WxHxD)		mm	1250x1615x765		1585x1615x765
Packed dimensions (WxHxD)		mm	1305x1790x820		1650x1810x840
Net weight		kg	278		338
Gross weight		kg	297		362
Ambient temp.	Cooling	°C	-5 °C to 55 °C		



HP			28	30
Model name			MVC-785WV2GN1	MVC-850WV2GN1
Power supply			380-415/3/50(60)	
Cooling ¹	Capacity	kW	78.5	85.0
		kBtu/h	268.1	290.3
	Power input	kW	26.08	29.51
	EER		3.01	2.88
Connected indoor unit	Total capacity		50-130%	
	Maximum quantity		46	50
Compressor	Type		DC inverter	
	Quantity		2	
Fan	Type		DC	
	Model		ZKSN-560-8-42L	
	Quantity		2	
	Motor output	kW	0.56x2	
	Max. ESP	Pa	20 default;60 customization option	
	Airflow rate	m ³ /h	20600	
Refrigerant	Type		R410A	
	Factory charge	kg	19	
Pipe connections ²	Liquid pipe	mm	Φ22.2	
	Gas pipe	mm	Φ31.8	Φ38.1
Sound pressure level ³		dB(A)	64	
Net dimensions (WxHxD)		mm	1585x1615x765	
Packed dimensions (WxHxD)		mm	1650x1810x840	
Net weight		kg	338	
Gross weight		kg	362	
Ambient temp.	Cooling	°C	-5 °C to 55 °C	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's accessories.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

380~415V, 3N, 50(60)Hz



HP	32		34		36		38	
Model name	MVC-900WV2GN1		MVC-950WV2GN1		MVC-1010WV2GN1		MVC-1065WV2GN1	
Combination type	16HP+16HP		22HP+12HP		20HP+16HP		22HP+16HP	
Power supply	V/N/Hz		380-415/3/50(60)					
Cooling ¹	Capacity	kW	90.0	95.0	101.0	106.5		
		kBtu/h	307.4	324.4	345.0	363.7		
	Power input	kW	24.52	29.36	29.92	32.49		
	EER		3.67	3.24	3.38	3.28		
Connected indoor unit	Total capacity	50-130%						
	Maximum quantity	53	56	59	63			
Compressor	Type	DC inverter						
	Quantity	2	3			3		
Fan	Type	DC						
	Quantity	2	3			3		
	Max. ESP	Pa	20 default;60 customization option					
Refrigerant	Type	R410A						
	Factory charge	kg	11×2	13+8	13+11			
Pipe connections ²	Liquid pipe	mm	19.1	19.1	19.1			
	Gas pipe	mm	31.8	31.8	38.1			
Sound pressure level ³		dB(A)	64	65				
Net dimensions (WxHxD)		mm	(960×1615×765)×2		(1250×1615×765)+(960×1615×765)			
Packed dimensions (WxHxD)		mm	(1025×1790×830)×2		(1305×1790×820)+(1025×1790×830)			
Net weight		kg	188×2		278+188			
Gross weight		kg	204×2		297+204			
Ambient temp.	Cooling	°C	-5°C to 55 °C					



HP	40		42		44	
Model name	MVC-1120WV2GN1		MVC-1180WV2GN1		MVC-1235WV2GN1	
Combination type	24HP+16HP		26HP+16HP		28HP+16HP	
Power supply	V/N/Hz		380-415/3/50(60)			
Cooling ¹	Capacity	kW	112.0	118.0	123.5	
		kBtu/h	382.5	403.0	421.8	
	Power input	kW	32.94	35.66	38.34	
	EER		3.40	3.31	3.22	
Connected indoor unit	Total capacity	50-130%				
	Maximum quantity	64				
Compressor	Type	DC inverter				
	Quantity	3				
Fan	Type	DC				
	Quantity	3				
	Max. ESP	Pa	20 default;60 customization option			
Refrigerant	Type	R410A				
	Factory charge	kg	19+11		19×2	
Pipe connections ²	Liquid pipe	mm	19.1			
	Gas pipe	mm	38.1			
Sound pressure level ³		dB(A)	65			66
Net dimensions (WxHxD)		mm	(1585×1615×765)+(960×1615×765)			
Packed dimensions (WxHxD)		mm	(1650×1810×840)+(1025×1790×830)			
Net weight		kg	338+188			
Gross weight		kg	362+204			
Ambient temp.	Cooling	°C	-5°C to 55 °C			

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the VC Pro Series Engineering Data Book for connection piping diameters.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

380~415V, 3N, 50(60)Hz



HP	46		48		50		52	
Model name	MVC-1300WV2GN1		MVC-1345WV2GN1		MVC-1400WV2GN1		MVC-1465WV2GN1	
Combination type	30HP+16HP		26HP+22HP		28HP+22HP		30HP+22HP	
Power supply	V/N/Hz		380-415/3/50(60)					
Cooling ¹	Capacity	kW	130.0	134.5	140.0	146.5		
		kBtu/h	444.0	459.3	478.1	500.3		
	Power input	kW	41.77	43.63	46.31	49.74		
	EER		3.11	3.08	3.02	2.95		
Connected indoor unit	Total capacity	50-130%						
	Maximum quantity	64						
Compressor	Type	DC inverter						
	Quantity	3	4			4		
Fan	Type	DC						
	Quantity	3	4			4		
	Max. ESP	Pa	20 default;60 customization option					
Refrigerant	Type	R410A						
	Factory charge	kg	19+11		19+13			
Pipe connections ²	Liquid pipe	mm	19.1					
	Gas pipe	mm	38.1					
Sound pressure level ³		dB(A)	66					
Net dimensions (WxHxD)		mm	(1585×1615×765)+(960×1615×765)		(1585×1615×765)+(1250×1615×765)			
Packed dimensions (WxHxD)		mm	(1650×1810×840)+(1025×1790×830)		(1650×1810×840)+(1305×1790×820)			
Net weight		kg	338+188					
Gross weight		kg	362+204					
Ambient temp.	Cooling	°C	-5°C to 55 °C					



HP	54		56		58	
Model name	MVC-1515WV2GN1		MVC-1570WV2GN1		MVC-1635WV2GN1	
Combination type	28HP+26HP		28HP+28HP		30HP+28HP	
Power supply	V/N/Hz		380-415/3/50(60)			
Cooling ¹	Capacity	kW	151.5	157.0	163.5	
		kBtu/h	517.4	536.2	558.4	
	Power input	kW	49.48	52.16	55.59	
	EER		3.06	3.01	2.94	
Connected indoor unit	Total capacity	50-130%				
	Maximum quantity	64				
Compressor	Type	DC inverter				
	Quantity	4				
Fan	Type	DC				
	Quantity	4				
	Max. ESP	Pa	20 default;60 customization option			
Refrigerant	Type	R410A				
	Factory charge	kg	19×2			
Pipe connections ²	Liquid pipe	mm	19.1			
	Gas pipe	mm	38.1	41.2		
Sound pressure level ³		dB(A)	66	66		
Net dimensions (WxHxD)		mm	(1585×1615×765)×2			
Packed dimensions (WxHxD)		mm	(1650×1810×840)×2			
Net weight		kg	338×2			
Gross weight		kg	362×2			
Ambient temp.	Cooling	°C	-5°C to 55 °C			

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the VC Pro Series Engineering Data Book for connection piping diameters.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

380~415V, 3N, 50(60)Hz



HP		60	62	64	66
Model name		MVC-1700WV2GN1	MVC-1750WV2GN1	MVC-1795WV2GN1	MVC-1850WV2GN1
Combination type		30HP+30HP	30HP+16HP+16HP	26HP+22HP+16HP	28HP+22HP+16HP
Power supply		V/N/Hz 380-415/3/50(60)			
Cooling ¹	Capacity	kW 170.0	175.0	179.5	185.0
		kBtu/h 580.6	597.8	613.0	631.8
	Power input	kW 59.02	54.03	55.89	58.57
	EER	2.88	3.24	3.21	3.16
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	64			
Compressor	Type	DC inverter			
	Quantity	4		5	
Fan	Type	DC			
	Quantity	4		5	
	Max. ESP	Pa 20 default;60 customization option			
Refrigerant	Type	R410A			
	Factory charge	kg 19x2	19+11x2	19+13+11	
Pipe connections ²	Liquid pipe	mm 19.1			
	Gas pipe	mm 41.2			
Sound pressure level ³		dB(A) 66			
Net dimensions (WxHxD)	mm	(1585x1615x765)x2	(1585x1615x765)+(960x1615x765)x2	(1585x1615x765)+(1250x1615x765)+(960x1615x765)	
Packed dimensions (WxHxD)	mm	(1650x1810x840)x2	(1650x1810x840)+(1025x1790x830)x2	(1650x1810x840)+(1305x1790x820)+(1025x1790x830)	
Net weight	kg	338x2	338+188x2	338+278+197	
Gross weight	kg	362x2	362+204x2	362+297+213	
Ambient temp	Cooling	°C -5°C to 55 °C			



HP		68	70	72	74
Model name		MVC-1915WV2GN1	MVC-1965WV2GN1	MVC-2020WV2GN1	MVC-2085WV2GN1
Combination type		30HP+22HP+16HP	28HP+26HP+16HP	28HP+28HP+16HP	30HP+28HP+16HP
Power supply		V/N/Hz 380-415/3/50(60)			
Cooling ¹	Capacity	kW 191.5	196.5	202.0	208.5
		kBtu/h 654.1	671.1	689.9	712.2
	Power input	kW 62.00	61.74	64.42	67.85
	EER	3.09	3.18	3.14	3.07
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	64			
Compressor	Type	DC inverter			
	Quantity	5			
Fan	Type	DC			
	Quantity	5			
	Max. ESP	Pa 20 default;60 customization option			
Refrigerant	Type	R410A			
	Factory charge	kg 19+13+11	19x2+11		
Pipe connections ²	Liquid pipe	mm 22.2			
	Gas pipe	mm 44.5			
Sound pressure level ³		dB(A) 67		68	
Net dimensions (WxHxD)	mm	(1585x1615x765)+(1250x1615x765)+(960x1615x765)	(1585x1615x765)x2+(960x1615x765)		
Packed dimensions (WxHxD)	mm	(1650x1810x840)+(1305x1790x820)+(1025x1790x830)	(1650x1810x840)x2+(1025x1790x830)		
Net weight	kg	338+278+197			
Gross weight	kg	362+297+213		362x2+204	
Ambient temp	Cooling	°C -5°C to 55 °C			

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the VC Pro Series Engineering Data Book for connection piping diameters.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

380~415V, 3N, 50(60)Hz



HP		76	78	80	82
Model name		MVC-2150WV2GN1	MVC-2185WV2GN1	MVC-2250WV2GN1	MVC-2315WV2GN1
Combination type		30HP+30HP+16HP	28HP+28HP+22HP	30HP+28HP+22HP	30HP+30HP+22HP
Power supply		V/N/Hz 380-415/3/50(60)			
Cooling ¹	Capacity	kW 215.0	218.5	225.0	231.5
		kBtu/h 734.4	746.2	768.4	790.6
	Power input	kW 71.28	72.39	75.82	79.25
	EER	3.02	3.02	2.97	2.92
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	64			
Compressor	Type	DC inverter			
	Quantity	5		6	
Fan	Type	DC			
	Quantity	5		6	
	Max. ESP	Pa 20 default;60 customization option			
Refrigerant	Type	R410A			
	Factory charge	kg 19x2+11	19x2+13		
Pipe connections ²	Liquid pipe	mm 22.2			
	Gas pipe	mm 44.5			
Sound pressure level ³		dB(A) 68			
Net dimensions (WxHxD)	mm	(1585x1615x765)x2+(960x1615x765)	(1585x1615x765)x2+(1250x1615x765)		
Packed dimensions (WxHxD)	mm	(1650x1810x840)x2+(1025x1790x830)	(1650x1810x840)x2+(1305x1790x820)		
Net weight	kg	338x2+188			
Gross weight	kg	362x2+204		362x2+204	
Ambient temp	Cooling	°C -5°C to 55 °C			



HP		84	86	88	90
Model name		MVC-2355WV2GN1	MVC-2420WV2GN1	MVC-2485WV2GN1	MVC-2550WV2GN1
Combination type		28HP+28HP+28HP	30HP+28HP+28HP	30HP+30HP+28HP	30HP+30HP+30HP
Power supply		V/N/Hz 380-415/3/50(60)			
Cooling ¹	Capacity	kW 235.5	242.0	248.5	255.0
		kBtu/h 804.3	826.5	848.7	870.9
	Power input	kW 78.24	81.67	85.10	88.53
	EER	3.01	2.96	2.92	2.88
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	64			
Compressor	Type	DC inverter			
	Quantity	6			
Fan	Type	DC			
	Quantity	6			
	Max. ESP	Pa 20 default;60 customization option			
Refrigerant	Type	R410A			
	Factory charge	kg 19x3	19x3		
Pipe connections ²	Liquid pipe	mm 25.4			
	Gas pipe	mm 50.8			
Sound pressure level ³		dB(A) 68			
Net dimensions (WxHxD)	mm	(1585x1615x765)x3			
Packed dimensions (WxHxD)	mm	(1650x1810x840)x3			
Net weight	kg	338x3			
Gross weight	kg	362x3			
Ambient temp	Cooling	°C -5°C to 55 °C			

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the VC Pro Series Engineering Data Book for connection piping diameters.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

220V, 3Ph, 50(60)Hz



HP			8	10	12
Model name			MVC-224WV2WN1	MVC-280WV2WN1	MVC-335WV2WN1
Power supply			220/3/50(60)		
Cooling ¹	Capacity	kW	22.4	28.0	33.5
		kBtu/h	76.5	95.6	114.4
	Power input	kW	5.25	7.10	8.90
		EER	4.27	3.94	3.76
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	13	16	20	
Compressor	Type	DC inverter			
	Quantity	1			
Fan	Type	DC			
	Quantity	1			
	Motor output	kW			
	Static pressure	Pa(in.wg)			
	Airflow rate	m ³ /h(CFM)			
	Drive type	Direct			
Refrigerant	Type	R410A			
	Factory charge	kg(lbs)			
Pipe connections ²	Liquid pipe	mm(inch)			
	Gas pipe	mm(inch)			
Sound pressure level ³	dB(A)		57	58	60
	mm		960x1615x765		
Net dimensions (WxHxD)	inch		37-13/16x63-9/16x30-1/8		
	mm		1025x1790x830		
Packed dimensions (WxHxD)	mm		40-3/8x70-1/2x32-11/16		
	inch		40-3/8x70-1/2x32-11/16		
Net weight	kg		193		
	lbs		425		
Gross weight	kg		209		
	lbs		461		
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)		



HP			14	16	18	20
Model name			MVC-400WV2WN1	MVC-450WV2WN1	MVC-500WV2WN1	MVC-560WV2WN1
Power supply			220/3/50(60)			
Cooling ¹	Capacity	kW	40.0	45.0	50.0	56.0
		kBtu/h	136.6	153.7	170.8	191.3
	Power input	kW	10.30	12.00	13.70	16.50
		EER	3.88	3.75	3.65	3.39
Connected indoor unit	Total capacity	50-130%				
	Maximum quantity	23	26	29	33	
Compressor	Type	DC inverter				
	Quantity	1				
Fan	Type	DC				
	Quantity	1				
	Motor output	kW				
	Static pressure	Pa(in.wg)				
	Airflow rate	m ³ /h(CFM)				
	Drive type	Direct				
Refrigerant	Type	R410A				
	Factory charge	kg(lbs)				
Pipe connections ²	Liquid pipe	mm(inch)				
	Gas pipe	mm(inch)				
Sound pressure level ³	dB(A)		60	61	62	63
	mm		960x1615x765			
Net dimensions (WxHxD)	inch		37-13/16x63-9/16x30-1/8			
	mm		1025x1790x830			
Packed dimensions (WxHxD)	mm		40-3/8x70-1/2x32-11/16			
	inch		40-3/8x70-1/2x32-11/16			
Net weight	kg		200			
	lbs		441			
Gross weight	kg		216			
	lbs		476			
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)			

Notes:

- Indoor temperature 27°C(80.6°F) DB, 19°C(66.2°F) WB; outdoor temperature 35°C(95°F) DB; equivalent refrigerant piping length 7.5m(24.6ft.) with zero level difference.
- Diameters given are those of the unit's accessories.
- Sound pressure level is measured at a position 1m(3.28ft.) in front of the unit and 1.3m(4.26ft.) above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

220V, 3Ph, 50(60)Hz



HP			22	24	26
Model name			MVC-615WV2WN1	MVC-670WV2WN1	MVC-730WV2WN1
Power supply			220/3/50(60)		
Cooling ¹	Capacity	kW	61.5	67.0	73.0
		kBtu/h	210.0	228.8	249.3
	Power input	kW	19.65	20.10	22.20
		EER	3.13	3.33	3.29
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	36	39	43	
Compressor	Type	DC inverter			
	Quantity	2			
Fan	Type	DC			
	Quantity	2			
	Motor output	kW			
	Static pressure	Pa(in.wg)			
	Airflow rate	m ³ /h(CFM)			
	Drive type	Direct			
Refrigerant	Type	R410A			
	Factory charge	kg(lbs)			
Pipe connections ²	Liquid pipe	mm(inch)			
	Gas pipe	mm(inch)			
Sound pressure level ³	dB(A)		63	64	
	mm		1250x1615x765		
Net dimensions (WxHxD)	inch		49-1/4x63-9/16x30-1/8		
	mm		1305x1790x820		
Packed dimensions (WxHxD)	mm		51-3/8x70-1/2x32-1/4		
	inch		51-3/8x70-1/2x32-1/4		
Net weight	kg		296		
	lbs		653		
Gross weight	kg		313		
	lbs		690		
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)		



HP			28	30	
Model name			MVC-785WV2WN1	MVC-850WV2WN1	
Power supply			220/3/50(60)		
Cooling ¹	Capacity	kW	78.5	85.0	
		kBtu/h	268.1	290.3	
	Power input	kW	24.18	27.51	
		EER	3.25	3.09	
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	46	50		
Compressor	Type	DC inverter			
	Quantity	2			
Fan	Type	DC			
	Quantity	2			
	Motor output	kW			
	Static pressure	Pa(in.wg)			
	Airflow rate	m ³ /h(CFM)			
	Drive type	Direct			
Refrigerant	Type	R410A			
	Factory charge	kg(lbs)			
Pipe connections ²	Liquid pipe	mm(inch)			
	Gas pipe	mm(inch)			
Sound pressure level ³	dB(A)		64		
	mm		1585x1615x765		
Net dimensions (WxHxD)	inch		62-3/8x63-9/16x30-1/8		
	mm		1650x1810x840		
Packed dimensions (WxHxD)	mm		64-15/160x71-1/4x33-1/16		
	inch		64-15/160x71-1/4x33-1/16		
Net weight	kg		352		
	lbs		776		
Gross weight	kg		376		
	lbs		829		
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)		

Notes:

- Indoor temperature 27°C(80.6°F) DB, 19°C(66.2°F) WB; outdoor temperature 35°C(95°F) DB; equivalent refrigerant piping length 7.5m(24.6ft.) with zero level difference.
- Diameters given are those of the unit's accessories.
- Sound pressure level is measured at a position 1m(3.28ft.) in front of the unit and 1.3m(4.26ft.) above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

220V, 3Ph, 50(60)Hz



HP		32	34	36	38
Model name		MVC-900WV2WN1	MVC-950WV2WN1	MVC-1010WV2WN1	MVC-1065WV2WN1
Combination type		16HP+16HP	22HP+12HP	20HP+16HP	22HP+16HP
Power supply		V/Ph/Hz 220/3/50(60)			
Cooling ¹	Capacity	90.0	95.0	101.0	106.5
	kW	307.4	324.4	345.0	363.7
	kBtu/h	24.00	28.55	28.50	31.65
	EER	3.75	3.33	3.54	3.36
Connected indoor unit		Total capacity Maximum quantity			
Compressor		Type Quantity Oil type Start-up method			
Fan		Type Quantity Motor output Static pressure Airflow rate Drive type			
Refrigerant		Type Factory charge			
Pipe connections ²		Liquid pipe Gas pipe			
Sound pressure level ³		dB(A)			
Net dimensions (WxHxD)		mm inch			
Packed dimensions (WxHxD)		mm inch			
Net weight		kg lbs			
Gross weight		kg lbs			
Ambient temp. Cooling		°C (°F)			



HP		40	42	44
Model name		MVC-1120WV2WN1	MVC-1180WV2WN1	MVC-1235WV2WN1
Combination type		24HP+16HP	26HP+16HP	28HP+16HP
Power supply		V/Ph/Hz 220/3/50(60)		
Cooling ¹	Capacity	112.0	118.0	123.5
	kW	382.5	403.0	421.8
	kBtu/h	32.10	34.20	36.18
	EER	3.49	3.45	3.41
Connected indoor unit		Total capacity Maximum quantity		
Compressor		Type Quantity Oil type Start-up method		
Fan		Type Quantity Motor output Static pressure Airflow rate Drive type		
Refrigerant		Type Factory charge		
Pipe connections ²		Liquid pipe Gas pipe		
Sound pressure level ³		dB(A)		
Net dimensions (WxHxD)		mm inch		
Packed dimensions (WxHxD)		mm inch		
Net weight		kg lbs		
Gross weight		kg lbs		
Ambient temp. Cooling		°C (°F)		

Notes:

- Indoor temperature 27°C(80.6°F) DB, 19°C(66.2°F) WB; outdoor temperature 35°C(95°F) DB; equivalent refrigerant piping length 7.5m(24.6ft.) with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m(295.2ft.). For systems with total equivalent liquid piping lengths of 90m(295.2ft.) or longer, please refer to the VC Pro Series Engineering Data Book for connection piping diameters.
- Sound pressure level is measured at a position 1m(3.28ft.) in front of the unit and 1.3m(4.26ft.) above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

220V, 3Ph, 50(60)Hz



HP		46	48	50	52
Model name		MVC-1300WV2WN1	MVC-1345WV2WN1	MVC-1400WV2WN1	MVC-1465WV2WN1
Combination type		30HP+16HP	26HP+22HP	28HP+22HP	30HP+22HP
Power supply		V/Ph/Hz 220/3/50(60)			
Cooling ¹	Capacity	130.0	134.5	140.0	146.5
	kW	444.0	459.3	478.1	500.3
	kBtu/h	39.51	41.85	43.83	47.16
	EER	3.29	3.21	3.19	3.11
Connected indoor unit		Total capacity Maximum quantity			
Compressor		Type Quantity Oil type Start-up method			
Fan		Type Quantity Motor output Static pressure Airflow rate Drive type			
Refrigerant		Type Factory charge			
Pipe connections ²		Liquid pipe Gas pipe			
Sound pressure level ³		dB(A)			
Net dimensions (WxHxD)		mm inch			
Packed dimensions (WxHxD)		mm inch			
Net weight		kg lbs			
Gross weight		kg lbs			
Ambient temp. Cooling		°C (°F)			



HP		54	56	58
Model name		MVC-1515WV2WN1	MVC-1570WV2WN1	MVC-1635WV2WN1
Combination type		28HP+26HP	28HP+28HP	30HP+28HP
Power supply		V/Ph/Hz 220/3/50(60)		
Cooling ¹	Capacity	151.5	157.0	163.5
	kW	517.4	536.2	558.4
	kBtu/h	46.38	48.36	51.69
	EER	3.27	3.25	3.16
Connected indoor unit		Total capacity Maximum quantity		
Compressor		Type Quantity Oil type Start-up method		
Fan		Type Quantity Motor output Static pressure Airflow rate Drive type		
Refrigerant		Type Factory charge		
Pipe connections ²		Liquid pipe Gas pipe		
Sound pressure level ³		dB(A)		
Net dimensions (WxHxD)		mm inch		
Packed dimensions (WxHxD)		mm inch		
Net weight		kg lbs		
Gross weight		kg lbs		
Ambient temp. Cooling		°C (°F)		

Notes:

- Indoor temperature 27°C(80.6°F) DB, 19°C(66.2°F) WB; outdoor temperature 35°C(95°F) DB; equivalent refrigerant piping length 7.5m(24.6ft.) with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m(295.2ft.). For systems with total equivalent liquid piping lengths of 90m(295.2ft.) or longer, please refer to the VC Pro Series Engineering Data Book for connection piping diameters.
- Sound pressure level is measured at a position 1m(3.28ft.) in front of the unit and 1.3m(4.26ft.) above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

220V, 3Ph, 50(60)Hz



HP		60	62	64	66
Model name		MVC-1700WV2WN1	MVC-1750WV2WN1	MVC-1795WV2WN1	MVC-1850WV2WN1
Combination type		30HP+30HP	30HP+16HP+16HP	26HP+22HP+16HP	28HP+22HP+16HP
Power supply		220/3/50(60)			
Cooling ¹	Capacity	170.0	175.0	179.5	185.0
	kBtu/h	580.6	597.8	613.0	631.8
Power input	kW	55.02	51.51	53.85	55.83
	EER	3.09	3.40	3.33	3.31
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	64			
Compressor	Type	DC inverter			
	Quantity	4			
	Oil type	FV 50s			
	Start-up method	Soft start			
Fan	Type	DC			
	Quantity	5			
	Motor output	0.56x4			
	Static pressure	Pa(in.wg) 20(0.08) default; 60(0.24) customization option			
Airflow rate	m ³ /h	41200	43800	43400	44400
	CFM	24250	25780	25544	26133
Refrigerant	Type	Direct R410A			
	Factory charge	kg lbs	19x2 41.9x2	19+11x2 41.9+24.3x2	19+13+11 41.9+28.7+24.3
Pipe connections ²	Liquid pipe	mm(inch) Φ19.1(3/4)			
	Gas pipe	mm(inch) Φ41.2(1-5/8)			
Sound pressure level ³	dB(A)	66			
Net dimensions (WxHxD)	mm	(1585x1615x765)x2	(1585x1615x765)+(960x1615x765)x2	(1585x1615x765)+(1250x1615x765)+(960x1615x765)	(1585x1615x765)+(960x1615x765)x2
	inch	(62-3/8x63-9/16x30-1/8)x2	(62-3/8x63-9/16x30-1/8)+(37-13/16x63-9/16x30-1/8)	(62-3/8x63-9/16x30-1/8)+(49-1/4x63-9/16x30-1/8)+(37-13/16x63-9/16x30-1/8)	(62-3/8x63-9/16x30-1/8)x2+(49-1/4x63-9/16x30-1/8)
Packed dimensions (WxHxD)	mm	(1650x1810x840)x2	(1650x1810x840)+(1025x1790x830)x2	(1650x1810x840)+(1305x1790x820)+(1025x1790x830)	(1650x1810x840)x2+(1305x1790x820)
	inch	(64-15/160x71-1/4x33-1/16)x2	(64-15/160x71-1/4x33-1/16)+(40-3/8x70-1/2x32-11/16)x2	(64-15/160x71-1/4x33-1/16)+(51-3/8x70-1/2x32-1/4)+(40-3/8x70-1/2x32-11/16)	(64-15/160x71-1/4x33-1/16)x2+(51-3/8x70-1/2x32-1/4)
Net weight	kg	352x2	352+193x2	352+296+193	352x2+193
	lbs	776x2	776+425x2	776+653+425	776x2+425
Gross weight	kg	376x2	376+209x2	376+313+209	376x2+209
	lbs	829x2	829+461x2	829+690+461	829x2+461
Ambient temp. Cooling	°C (°F)	-5~-55 (23~131)			



HP		68	70	72	74
Model name		MVC-1915WV2WN1	MVC-1965WV2WN1	MVC-2020WV2WN1	MVC-2085WV2WN1
Combination type		30HP+22HP+16HP	28HP+26HP+16HP	28HP+28HP+16HP	30HP+28HP+16HP
Power supply		220/3/50(60)			
Cooling ¹	Capacity	191.5	196.5	202.0	208.5
	kBtu/h	654.1	671.1	689.9	712.2
Power input	kW	59.16	58.38	60.36	63.69
	EER	3.24	3.37	3.35	3.27
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	64			
Compressor	Type	DC inverter			
	Quantity	5			
	Oil type	FV 50s			
	Start-up method	Soft start			
Fan	Type	DC			
	Quantity	5			
	Motor output	0.56x4+0.75			
	Static pressure	Pa(in.wg) 20(0.08) default; 60(0.24) customization option			
Airflow rate	m ³ /h	44400	51800	52800	52800
	CFM	26133	30489	31077	31077
Refrigerant	Type	Direct R410A			
	Factory charge	kg lbs	19+13+11 41.9+28.7+24.3	19x2+11 41.9x2+24.3	19x2+11 41.9x2+24.3
Pipe connections ²	Liquid pipe	mm(inch) Φ22.2(7/8)			
	Gas pipe	mm(inch) Φ44.5(1-3/4)			
Sound pressure level ³	dB(A)	67			
Net dimensions (WxHxD)	mm	(1585x1615x765)+(1250x1615x765)+(960x1615x765)	(1585x1615x765)x2+(960x1615x765)		
	inch	(62-3/8x63-9/16x30-1/8)+(49-1/4x63-9/16x30-1/8)+(37-13/16x63-9/16x30-1/8)	(62-3/8x63-9/16x30-1/8)x2+(37-13/16x63-9/16x30-1/8)		
Packed dimensions (WxHxD)	mm	(1650x1810x840)+(1305x1790x820)+(1025x1790x830)	(1650x1810x840)x2+(1025x1790x830)		
	inch	(64-15/160x71-1/4x33-1/16)+(51-3/8x70-1/2x32-1/4)+(40-3/8x70-1/2x32-11/16)	(64-15/160x71-1/4x33-1/16)x2+(40-3/8x70-1/2x32-11/16)		
Net weight	kg	352+296+193	352x2+193		
	lbs	776+653+425	776x2+425		
Gross weight	kg	376+313+209	376x2+209		
	lbs	829+690+461	829x2+461		
Ambient temp. Cooling	°C (°F)	-5~-55 (23~131)			

- Notes:
- Indoor temperature 27°C(80.6°F) DB, 19°C(66.2°F) WB; outdoor temperature 35°C(95°F) DB; equivalent refrigerant piping length 7.5m(24.6ft.) with zero level difference.
 - Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m(295.2ft.). For systems with total equivalent liquid piping lengths of 90m(295.2ft.) or longer, please refer to the VC Pro Series Engineering Data Book for connection piping diameters.
 - Sound pressure level is measured at a position 1m(3.28ft.) in front of the unit and 1.3m(4.26ft.) above the floor in a semi-anechoic chamber.

VRF VC Pro Series - Cooling Only

220V, 3Ph, 50(60)Hz



HP		76	78	80	82
Model name		MVC-2150WV2WN1	MVC-2185WV2WN1	MVC-2250WV2WN1	MVC-2315WV2WN1
Combination type		30HP+30HP+16HP	28HP+28HP+22HP	30HP+28HP+22HP	30HP+30HP+22HP
Power supply		220/3/50(60)			
Cooling ¹	Capacity	215.0	218.5	225.0	231.5
	kBtu/h	734.4	746.2	768.4	790.6
Power input	kW	67.02	68.01	71.34	74.67
	EER	3.21	3.21	3.15	3.10
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	64			
Compressor	Type	DC inverter			
	Quantity	5			
	Oil type	FV 50s			
	Start-up method	Soft start			
Fan	Type	DC			
	Quantity	6			
	Motor output	0.56x6			
	Static pressure	Pa(in.wg) 20(0.08) default; 60(0.24) customization option			
Airflow rate	m ³ /h	52800	53400	53400	53400
	CFM	31077	31430	31430	31430
Refrigerant	Type	Direct R410A			
	Factory charge	kg lbs	19x2+11 41.9x2+24.3	19x2+13 41.9x2+28.7	19x2+13 41.9x2+28.7
Pipe connections ²	Liquid pipe	mm(inch) Φ22.2(7/8)			
	Gas pipe	mm(inch) Φ44.5(1-3/4)			
Sound pressure level ³	dB(A)	68			
Net dimensions (WxHxD)	mm	(1585x1615x765)x2+(960x1615x765)	(1585x1615x765)x2+(1250x1615x765)		
	inch	(62-3/8x63-9/16x30-1/8)x2+(37-13/16x63-9/16x30-1/8)	(62-3/8x63-9/16x30-1/8)x2+(49-1/4x63-9/16x30-1/8)		
Packed dimensions (WxHxD)	mm	(1650x1810x840)x2+(1025x1790x830)	(1650x1810x840)x2+(1305x1790x820)		
	inch	(64-15/160x71-1/4x33-1/16)x2+(40-3/8x70-1/2x32-11/16)	(64-15/160x71-1/4x33-1/16)x2+(51-3/8x70-1/2x32-1/4)		
Net weight	kg	352x2+193	352x2+193		
	lbs	776x2+425	776x2+425		
Gross weight	kg	376x2+209	376x2+209		
	lbs	829x2+461	829x2+461		
Ambient temp. Cooling	°C (°F)	-5~-55 (23~131)			



HP		84	86	88	90
Model name		MVC-2355WV2WN1	MVC-2420WV2WN1	MVC-2485WV2WN1	MVC-2550WV2WN1
Combination type		28HP+28HP+28HP	30HP+28HP+28HP	30HP+30HP+28HP	30HP+30HP+30HP
Power supply		220/3/50(60)			
Cooling ¹	Capacity	235.5	242.0	248.5	255.0
	kBtu/h	804.3	826.5	848.7	870.9
Power input	kW	72.54	75.87	79.20	82.53
	EER	3.25	3.19	3.14	3.09
Connected indoor unit	Total capacity	50-130%			
	Maximum quantity	64			
Compressor	Type	DC inverter			
	Quantity	6			
	Oil type	FV 50s			
	Start-up method	Soft start			
Fan	Type	DC			
	Quantity	6			
	Motor output	0.56x6			
	Static pressure	Pa(in.wg) 20(0.08) default; 60(0.24) customization option			
Airflow rate	m ³ /h	61800	63674	63674	63674
	CFM	36374	36374	36374	36374
Refrigerant	Type	Direct R410A			
	Factory charge	kg lbs	19x3 41.9x3	19x3 41.9x3	19x3 41.9x3
Pipe connections ²	Liquid pipe	mm(inch) Φ25.4(1)			
	Gas pipe	mm(inch) Φ50.8(2)			
Sound pressure level ³	dB(A)	68			
Net dimensions (WxHxD)	mm	(1585x1615x765)x3			
	inch	(62-3/8x63-9/16x30-1/8)x3			
Packed dimensions (WxHxD)	mm	(1650x1810x840)x3			
	inch	(64-15/160x71-1/4x33-1/16)x3			
Net weight	kg	352x3			
	lbs	776x3			
Gross weight	kg	376x3			
	lbs	829x3			
Ambient temp. Cooling	°C (°F)	-5~-55 (23~131)			

- Notes:
- Indoor temperature 27°C(80.6°F) DB, 19°C(66.2°F) WB; outdoor temperature 35°C(95°F) DB; equivalent refrigerant piping length 7.5m(24.6ft.) with zero level difference.
 - Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m(295.2ft.). For systems with total equivalent liquid piping lengths of 90m(295.2ft.) or longer, please refer to the VC Pro Series Engineering Data Book for connection piping diameters.
 - Sound pressure level is measured at a position 1m(3.28ft.) in front of the unit and 1.3m(4.26ft.) above the floor in a semi-anechoic chamber.

Indoor Units
VRF 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

- ▶ Precise Oil Control Technology
- ▶ Night Silent Modes
- ▶ Duty Cycling
- ▶ Backup Operation
- ▶ ESP up to 60Pa

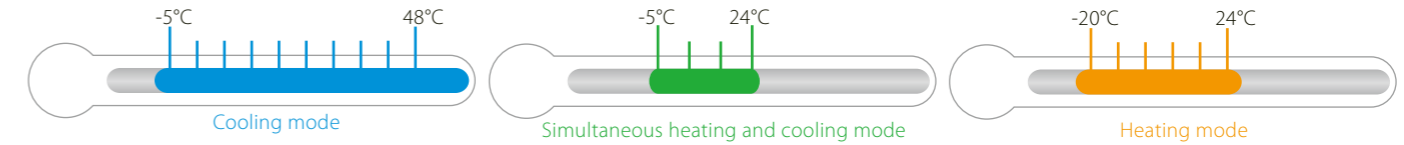
Wide Capacity Range

V4+R Series has extensive capacity ranging from 8HP to 64HP, meets all customer requirement concerning small to large buildings.

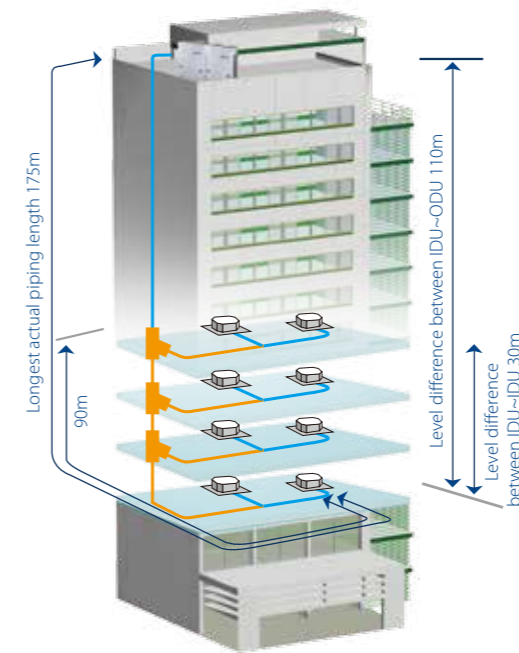


Wide Operation Range

The outdoor temperature can go from as low as -20°C to 24°C for heating mode and from -5°C to as high as 48°C for cooling mode. As for the simultaneous heating and cooling mode, it can run from -5°C to 24°C.



Long Piping Capability

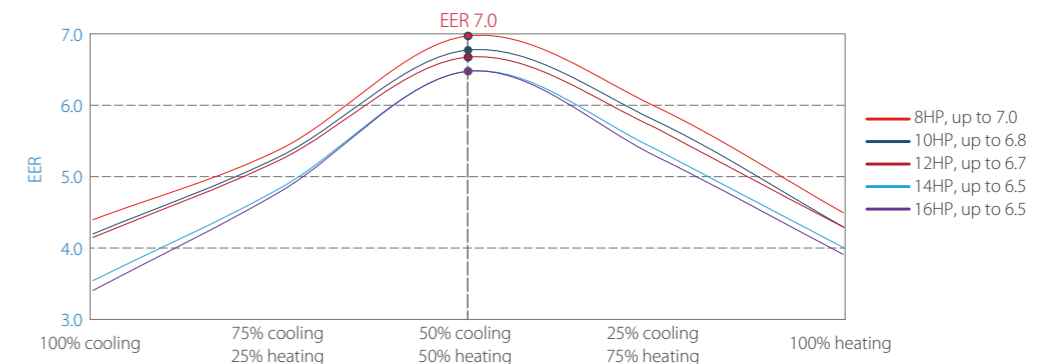


Piping length	Capability
Total piping length	1000m
Longest length - actual (equivalent)	175m (200m)
Longest length after first branch	90m*
Longest length from MS to its downstream indoor unit	40m
Largest height difference between indoor and outdoor units - ODU up (down)	70m (110m)
Largest height difference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

*The longest length after first branch is 40m as standard but can be extended to up to 90m under certain conditions. Please contact your local Midea dealer for further information.

Heat Recovery, EER up to 7.0

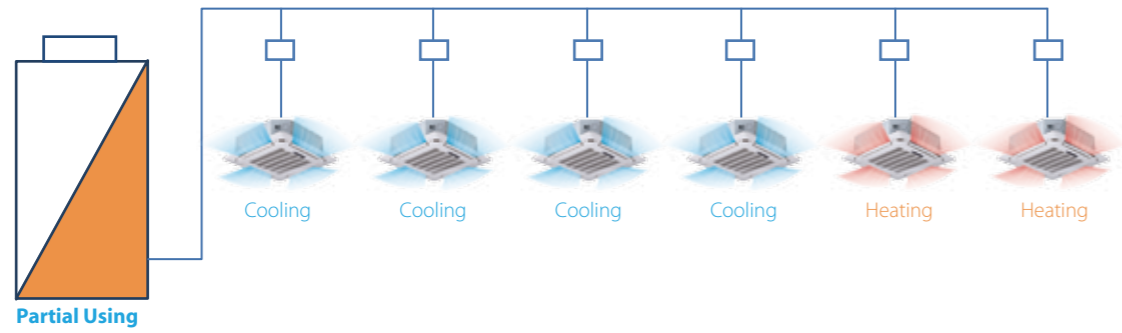
Heat recovery is achieved by diverting exhaust heat from indoor units in cooling mode to areas requiring heating, maximizing energy efficiency, reducing electricity costs and leading to high part load efficiencies (up to 7.0 in the 8HP category).



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

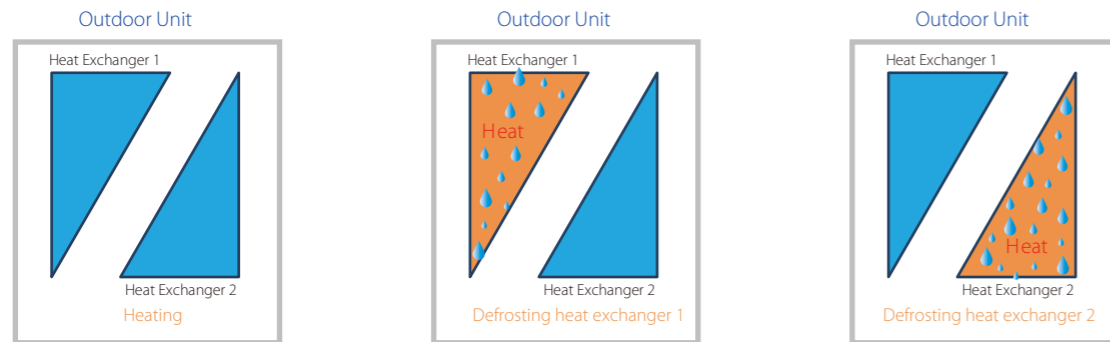
Adjustable Outdoor Heat Exchanger

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.



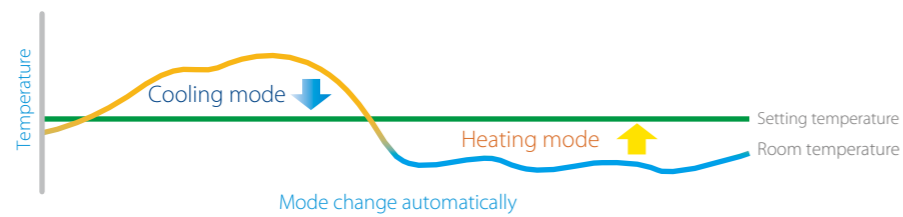
Continuous Heating During Defrost Operation

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 wired controller KJR-120B.

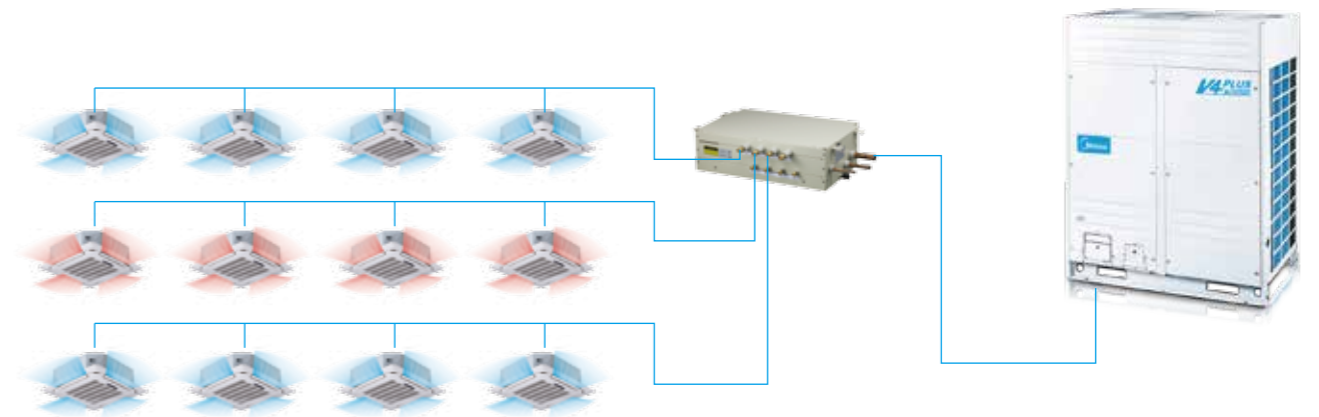
Innovative Mode Switch (MS) Box

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

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



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



Rotatable Control Box

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



VRF V4 Plus R Series - Heat Recovery

380~415V, 3N, 50(60)Hz



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/N/Hz	380-415/3/50(60)					
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					
	Max. quantity		13	16	20	23	26
Compressor	Type	DC inverter					
	Quantity		1	1	1	2	2
Fan motor	Type	DC motor					
	Quantity		2	2	2	2	2
	Static pressure	Pa	0-20 (default)			20-60 (customized)	
Refrigerant	Type	R410A					
	Factory charging	kg	10	10	10	13	13
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	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	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Air flow rate	m ³ /h	12000	12000	13000	15000	15000
Sound pressure level	dB(A)	57	57	58	60	60	
Net dimension (WxHxD)	mm	1250x1615x765					
Packing size (WxHxD)	mm	1305x1790x820					
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)
Power supply	V/N/Hz	380-415/3/50(60)				
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				
	Max. quantity		29	33	36	39
Compressor	Type	DC inverter				
	Quantity		2	2	2	3
Fan motor	Type	DC motor				
	Quantity		4	4	4	4
Refrigerant	Type	R410A				
	Factory charging	kg	10x2	10x2	10x2	10+13
Pipe connections	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	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Air flow rate	m ³ /h	24000	24000	25000	27000
Sound pressure level	dB(A)	61	61	62	63	
Net dimension (WxHxD)	mm	(1250x1615x765)x2				
Packing size (WxHxD)	mm	(1305x1790x820)x2				
Net weight	kg	255x2	255x2	255x2	255+303	
Gross weight	kg	273x2	273x2	273x2	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, 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 1.3m above the floor.

VRF V4 Plus R Series - Heat Recovery

380~415V, 3N, 50(60)Hz



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)
Power supply	V/N/Hz	380-415/3/50(60)				
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				
	Max. quantity		43	46	50	53
Compressor	Type	DC inverter				
	Quantity		3	4	4	4
Fan motor	Type	DC motor				
	Quantity		4	4	4	4
Refrigerant	Type	R410A				
	Factory charging	kg	10+13	13x2	13x2	13x2
Pipe connections	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	Φ6.35			
	Air flow rate	m ³ /h	27000	30000	30000	30000
Sound pressure level	dB(A)	63	64	64	64	
Net dimension (WxHxD)	mm	(1250x1615x765)x2				
Packing size (WxHxD)	mm	(1305x1790x820)x2				
Net weight	kg	255+303	303x2	303x2	303x2	
Gross weight	kg	273+322	322x2	322x2	322x2	
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)
Power supply	V/N/Hz	380-415/3/50(60)				
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				
	Max. quantity		56	59	63	64
Compressor	Type	DC inverter				
	Quantity		4	4	4	5
Fan motor	Type	DC motor				
	Quantity		6	6	6	6
Refrigerant	Type	R410A				
	Factory charging	kg	10x2+13	10x2+13	10x2+13	10+13x2
Pipe connections	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	Φ6.35			
	Air flow rate	m ³ /h	39000	39000	40000	42000
Sound pressure level	dB(A)	65	65	65	66	
Net dimension (WxHxD)	mm	(1250x1615x765)x3				
Packing size (WxHxD)	mm	(1305x1790x820)x3				
Net weight	kg	255x2+303	255x2+303	255x2+303	255+303x2	
Gross weight	kg	273x2+322	273x2+322	273x2+322	273+322x2	
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, 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 1.3m above the floor.

VRF V4 Plus R Series - Heat Recovery

380~415V, 3N, 50(60)Hz



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			14HPx3	14HPx2+16HP	14HP+16HPx2	16HPx3
Power supply	V/N/Hz	380-415/3/50(60)				
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				
	Max. quantity		64			
Compressor	Type	DC inverter				
	Quantity		6			
Fan motor	Type	DC motor				
	Quantity		6			
Refrigerant	Type	R410A				
	Factory charging	kg	13x3			
Pipe connections	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	Φ6.35			
Air flow rate	m ³ /h	45000				
Sound pressure level	dB(A)	67				
Net dimension (WxHxD)	mm	(1250x1615x765)x3				
Packing size (WxHxD)	mm	(1305x1790x820)x3				
Net weight	kg	303x3				
Gross weight	kg	322x3				
Operating temperature range	°C	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+16HPx2	10HPx2+16HPx2	10HP+12HP+16HPx2	10HP+14HP+16HPx2
Power supply	V/N/Hz	380-415/3/50(60)				
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				
	Max. quantity		64			
Compressor	Type	DC inverter				
	Quantity		6			
Fan motor	Type	DC motor				
	Quantity		8			
Refrigerant	Type	R410A				
	Factory charging	kg	10x2+13x2	10x2+13x2	10x2+13x2	10+13x3
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	Φ6.35			
Air flow rate	m ³ /h	54000	54000	55000	57000	
Sound pressure level	dB(A)	68				
Net dimension (WxHxD)	mm	(1250x1615x765)x4				
Packing size (WxHxD)	mm	(1305x1790x820)x4				
Net weight	kg	255x2+303x2	255x2+303x2	255x2+303x2	255+303x3	
Gross weight	kg	273x2+322x2	273x2+322x2	273x2+322x2	273+322x3	
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, 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 1.3m above the floor.

VRF V4 Plus R Series - Heat Recovery

380~415V, 3N, 50(60)Hz



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			14HPx3+16HP	14HPx2+16HPx2	14HP+16HPx3	16HPx4
Power supply	V/N/Hz	380-415/3/50(60)				
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	13x4			
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	Φ6.35			
Air flow rate	m ³ /h	60000				
Sound pressure level	dB(A)	69				
Net dimension (WxHxD)	mm	(1250x1615x765)x4				
Packing size (WxHxD)	mm	(1305x1790x820)x4				
Net weight	kg	303x4				
Gross weight	kg	322x4				
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	28	56			
Max. total capacity of all downstream indoor units	kW	16	28	45	28	56			
Piping connections	Connected to outdoor unit	Liquid pipe	mm	Φ9.53	Φ12.7	Φ15.9	Φ15.9	Φ15.9	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 (WxHxD)	mm	630x225x600	630x225x600	960x225x600	960x225x600	630x225x600	960x225x600		
Packing size (WxHxD)	mm	725x325x685	725x325x685	1055x325x685	1055x325x685	725x325x685	1055x325x685		
Net weight	kg	18	19.5	31	35	19.5	31		
Gross weight	kg	25	27	40	44.5	27	40		

Note:

Sound values are measured in a semi-anechoic room, at a position 1m below the MS equipment in mode switch condition.

It is not recommended to install in a place where low noise performance is required.

Indoor Units
VRF indoor units

Fresh Air Processing Unit
100% fresh air supply

Ventilation
Heat recovery ventilator (HRV)

Control Systems
Smart control systems



VRF V4 Plus W Series Water Cooled

Perfect combination of water and refrigerant system

- ▶ Precise Oil Control Technology
- ▶ Low noise operation
- ▶ Duty Cycling
- ▶ Backup Operation

Wide Range of Outdoor Units

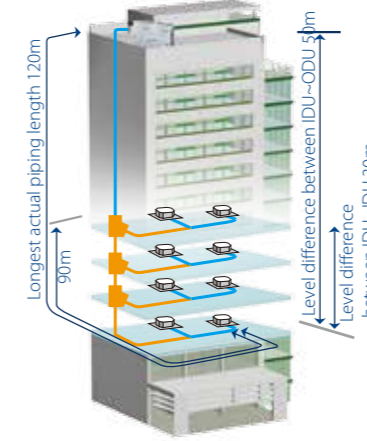
The Water Cooled V4+W Series capacity ranges from 8HP to 36HP, meets all customer requirements from small to large buildings.

8/10/12HP

Max. 3 units combination



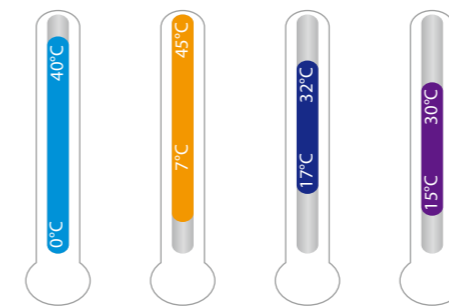
Long Piping Capability



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

*The longest length after first branch is 40m as standard but can be extended to up to 90m under certain conditions. Please contact your local Midea dealer for further information.

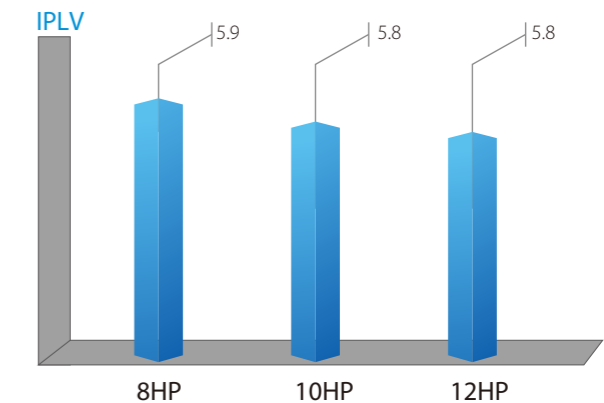
Wide Operation Temperature Range



- 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.



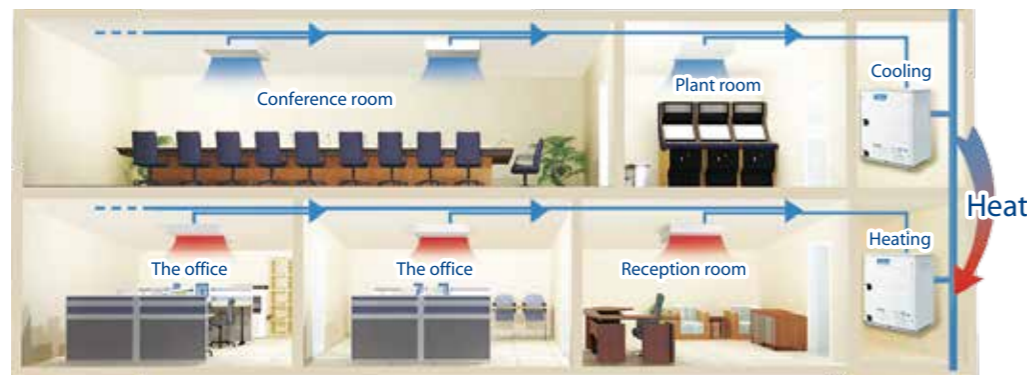
High Efficiency Double-Pipe Heat Exchanger

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.



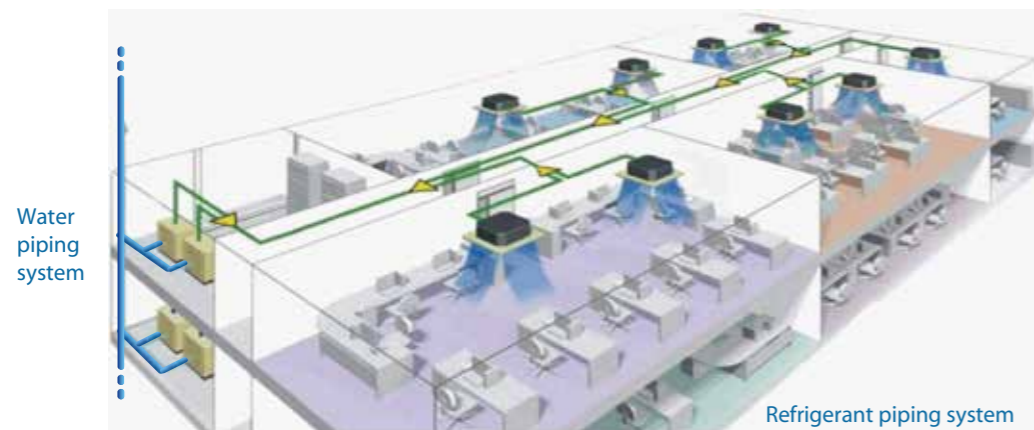
Water Side Heat Recovery Function

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

380~415V, 3N, 50(60)Hz



HP			8	10	12	16	18	20	22
Model (380~415V, 3N, 50Hz) 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
Model (380~415V, 3N, 60Hz) MDVS-			252(8)W/DCN1	280(10)W/DCN1	335(12)W/DCN1	504(16)W/DCN1	532(18)W/DCN1	560(20)W/DCN1	615(22)W/DCN1
Combined type			/	/	/	8HPx2	8HP+10HP	10HPx2	10HP+12HP
Cooling	Capacity	kW	25.2	28.0	33.5	50.4	53.2	56.0	61.5
	Power input	kW	4.80	6.10	8.00	9.60	10.90	12.20	14.10
	EER		5.25	4.59	4.19	5.25	4.88	4.59	4.36
Heating	Capacity	kW	27.0	31.5	37.5	54.0	58.5	63.0	69.0
	Power input	kW	4.45	5.83	7.80	8.90	10.3	11.66	13.63
	COP		6.07	5.40	4.81	6.07	5.69	5.40	5.06
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	m ³ /h	5.4	6	7.2	5.4x2	5.4+6	6x2	6+7.2
Refrigerant	Type	R410A							
	Factory charging	kg	2	2	2	2x2	2x2	2x2	2x2
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ25.4	Φ25.4	Φ31.8	Φ28.6	Φ28.6	Φ28.6	Φ28.6
	Oil balance pipe	mm	Φ6.35	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				(780x1000x550)x2			
Packing size (WxHxD)	mm	845x1170x600				(845x1170x600)x2			
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 (380~415V, 3N, 50Hz) 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
Model (380~415V, 3N, 60Hz) MDVS-			670(24)W/DCN1	784(26)W/DCN1	812(28)W/DCN1	840(30)W/DCN1	895(32)W/DCN1	950(34)W/DCN1	1005(36)W/DCN1
Combined type			12HPx2	8HPx2+10HP	8HP+10HPx2	10HPx3	10HPx2+12HP	10HP+12HPx2	12HPx3
Cooling	Capacity	kW	67.0	78.4	81.2	84.0	89.5	95.0	100.5
	Power input	kW	16.0	15.7	17.0	18.3	20.2	22.1	24.0
	EER		4.19	4.99	4.78	4.59	4.43	4.30	4.19
Heating	Capacity	kW	75.0	85.5	90.0	94.5	100.5	106.5	112.5
	Power input	kW	15.6	14.73	16.11	17.49	19.46	21.43	23.4
	COP		4.81	5.80	5.59	5.40	5.16	4.97	4.81
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	m ³ /h	7.2x2	5.4x2+6	5.4+6x2	6x3	6x2+7.2	6+7.2x2	7.2x3
Refrigerant	Type	R410A							
	Factory charging	kg	2x2	2x3	2x3	2x3	2x3	2x3	2x3
Pipe connections	Liquid pipe	mm	Φ15.9	Φ19.1	Φ19.1	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ28.6	Φ31.8	Φ31.8	Φ31.8	Φ31.8	Φ31.8	Φ31.8
	Oil balance pipe	mm	Φ6.35	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		(780x1000x550)x3					
Packing size (WxHxD)	mm	(845x1170x600)x2		(845x1170x600)x3					
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 indoor units

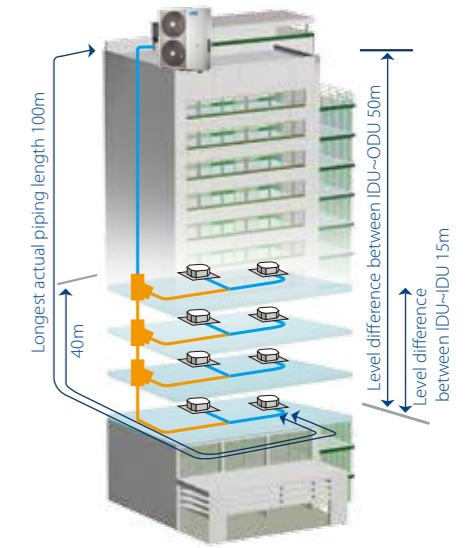
 **Ventilation**
Heat recovery ventilator (HRV)

 **Control Systems**
Smart control systems



Long Piping Capability

Piping length	Capacity		
	20/22.4/26kW	28/33.5kW	40/45kW
Total piping length	120m	150m	250m
Longest length - actual (equivalent)	60m (70m)	100(110)m	100m (120m)
Longest length after first branch	20m	40m	40m
Longest length after nearest branch	15m	15m	15m
Largest height difference between indoor and outdoor units - ODU up (down)	30m (20m)	50m(40m)	30m (20m)
Largest height difference between indoor units	8m	15m	8m



VRF V4 Plus I Series Heat Pump

Optimized design for middle-sized buildings


- ▶ Capacity up to 16HP
- ▶ Connectable Indoor Units Quantity up to 20
- ▶ Precise Oil Control Technology
- ▶ Advanced Silence Technology


VRF V4 Plus I Series - Heat Pump




HP			7	8	9	10	12	14	16	
Model			MDV-V200W/DRN1	MDV-V224W/DRN1	MDV-V260W/DRN1	MDVT-V280W/DGN1	MDVT-V335W/DGN1	MDV-V400W/DRN1	MDV-V450W/DRN1	
Power supply			V/N/Hz			380-415/3/50			380-415/3/50 (60)	
Cooling (T1/T3)	Capacity	kW	20.0	22.4	26.0	28.0/25.0	33.5/28.0	40.0	45.0	
	Power input	kW	6.1	6.8	7.6	6.83/7.9	9.2/10.0	11.9	13.6	
	EER		3.28	3.29	3.42	4.10/3.16	3.64/2.80	3.35	3.32	
Heating	Capacity	kW	22.0	24.5	28.5	31.5	37.5	45.0	50.0	
	Power input	kW	6.1	5.9	6.8	7.5	9.2	11.1	12.7	
	COP		3.61	4.15	4.19	4.20	4.08	4.05	3.93	
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity							
	Max. quantity		10	11	12	16	20	14	15	
Compressor	Type		DC inverter							
	Quantity		1	1	1	1	1	2	2	
Fan motor	Type		DC motor			DC motor		DC motor + AC motor		
	Quantity		2	2	2	2	2	2	2	
Refrigerant	Type		R410A							
	Factory charging	kg	4.8	6.2	6.2	8	8	9	12	
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.5	Φ12.7	Φ12.7	Φ12.7	
	Gas pipe	mm	Φ19.1	Φ19.1	Φ22.2	Φ22.2	Φ25.4	Φ22.2	Φ25.4	
Air flow rate	m ³ /h	10999	10494	10494	11000	11300	16575	16575		
Sound pressure level	dB(A)	59	59	60	59	61	62	62		
Net dimension (WxHxD)	mm	1120x1558x528			1120x1558x528			1360x1650x540	1460x1650x540	
	mm	1270x1720x565			1270x1720x565			1450x1785x560	1550x1785x560	
Net weight	kg	137	146.5	147	157			240	275	
Gross weight	kg	153	162.5	163	173			260	290	
Operating temperature range	°C	Cooling: -15~46; Heating: -15~24				Coolin: -5~54 Heating: -20~24		Cooling: -5~48; Heating: -15~24		

Notes:
Capacities are based on the following conditions:
T1 Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB.
T3 Cooling: Indoor temperature 29°C DB/19°C WB; Outdoor temperature 46°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 7.5m, level difference of 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**
VRF indoor units

 **Ventilation**
Heat recovery ventilator (HRV)

 **Control Systems**
Smart control systems

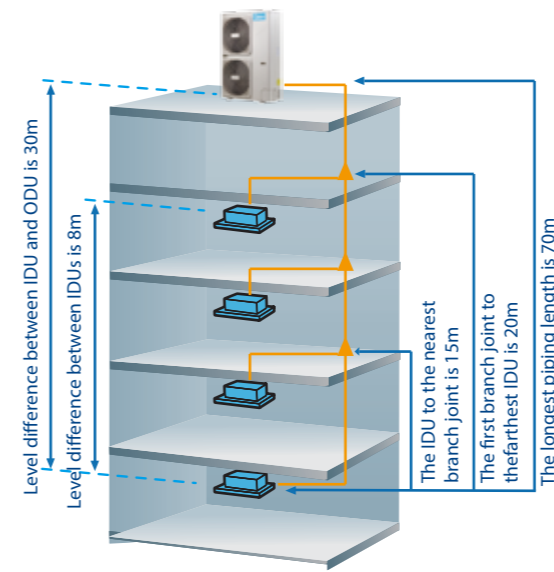


VRF V4 Plus Mini Series Heat Pump / Cooling Only

Optimized design for small buildings

- ▶ Capacity up to 18kW
- ▶ Connectable Indoor Units Quantity up to 9
- ▶ Precise Oil Control Technology
- ▶ Advanced Silence Technology

Long Piping Capability

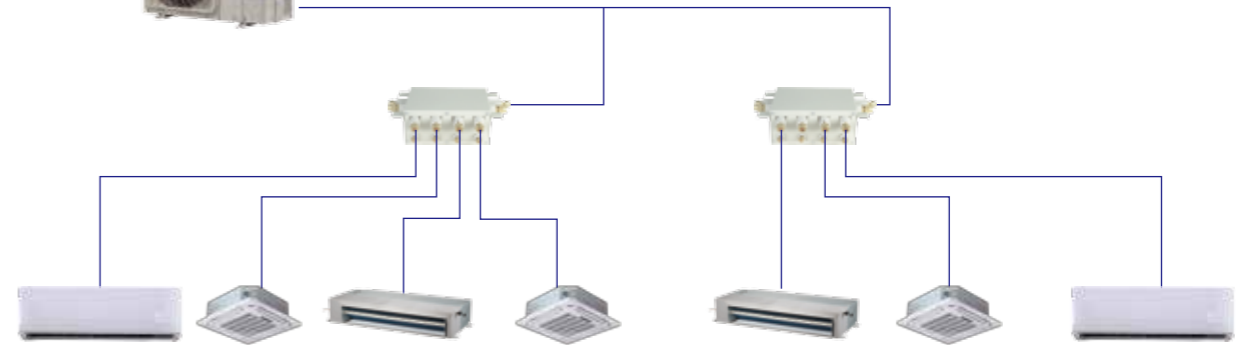


Piping length	Capability	
	7-11kW	12-18kW
Total piping length	100m	100m
Longest length - actual (equivalent)	45m (50m)	60m (70m)
Longest length after first branch	20m	20m
Largest height difference between indoor and outdoor units - ODU up (down)	30m (20m)	30m (20m)
Largest height difference between indoor units	8m	8m

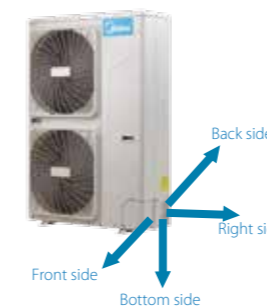
More Convenient Piping Connector – Branch Box



Easier and safer installation thanks to a branch box that simplifies piping work greatly.



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

220~240V, 1N, 50Hz



Model			MDV-V80W/DN1	MDV-V105W/DN1	MDV-V120W/DN1	MDV-V140W/DN1	MDV-V160W/DN1(B)
Power supply		V/N/Hz	220-240/1/50				
Cooling	Capacity	kW	7.2(1.5~8.0)	9.0(2.0~10.0)	12.3	14	15.5
	Power input	kW	1.85	2.3	3.25	3.95	4.52
	EER		3.9	3.92	3.78	3.54	3.43
Heating	Capacity	kW	7.2(1.6~8.4)	9.0(2.1~10.5)	13.2	15.4	17
	Power input	kW	1.79	2.27	3.47	4.16	4.77
	COP		4.02	3.97	3.8	3.7	3.56
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity				
	Max. quantity		4	5	6	6	7
Compressor	Type		DC inverter				
	Quantity		1				
Fan motor	Type		DC				
	Quantity		1		2		
Refrigerant	Type		R410A				
	Factory charging	kg	2.95		3.3	3.9	3.9
Pipe connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9			Φ19.1	
Air flow rate	m ³ /h	5500			6000		
Sound pressure level	dB(A)	56	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	75.5			95	100	
Gross weight	kg	85.5			106	111	
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.

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

VRF V4 Plus Mini Series - Heat Pump

380~415V, 3N, 50Hz



Model			MDV-V120W/DRN1	MDV-V140W/DRN1	MDV-V160W/DRN1	MDV-V180W/DRN1
Power supply		V/N/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 indoor unit	Total capacity		45~130% of outdoor unit capacity			
	Max. quantity		6	6	7	9
Compressor	Type		DC inverter			
	Quantity		1			
Fan motor	Type		DC			
	Quantity		2			
Refrigerant	Type		R410A			
	Factory charging	kg	3.3	3.9	3.9	4.5
Pipe connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9		Φ19.1	
Air flow rate	m ³ /h	6000			6800	
Sound pressure level	dB(A)	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.

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

VRF V4 Plus Mini Series - Heat Pump

208~230V, 1N, 60Hz



HP			4	4.5	5	6
Model MDV-			V105W/DVN1	V120W/DVN1	V140W/DVN1	V160W/DVN1
Power supply		V/N/Hz	208-230/1/60			
Cooling	Capacity	kW	10.5	12.0	14.0	15.5
		kBtu/h	35.8	40.9	47.8	52.9
	Power input	kW	2.68	3.25	3.95	4.52
	EER		3.92	3.69	3.54	3.43
Heating	Capacity	kW	11.5	13.2	15.4	17.0
		kBtu/h	39.2	45.0	52.5	58.0
	Power input	kW	2.90	3.47	4.16	4.77
	COP		3.97	3.80	3.70	3.56
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity			
	Max. quantity		5	6	6	7
Compressor	Type		DC inverter			
	Quantity		1	1	1	1
Fan motor	Type		DC motor			
	Quantity		1	2	2	2
Refrigerant	Type		R410A			
	Factory charging	kg(lbs.)	3(6.6)	3.3(7.3)	3.9(8.6)	3.9(8.6)
Pipe connections	Liquid pipe	mm(in.)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)
	Gas pipe	mm(in.)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)	Φ19.1(Φ3/4)
Air flow rate		m ³ /h	5100	6000	6000	6000
Sound pressure level		dB(A)	57	57	57	57
Net dimension (WxHxD)	mm		1075x966x396	900x1327x400	900x1327x400	900x1327x400
	inch		42-21/64 x38-1/32 x15-19/32	35-7/14x52-1/4x15-3/4	35-7/14x52-1/4x15-3/4	35-7/14x52-1/4x15-3/4
Packing size (WxHxD)	mm		1120x1100x435	1030x1456x435	1030x1456x435	1030x1456x435
	inch		44-3/32 x43-5/16 x17-1/8	40-9/16x57-5/16x17-1/8	40-9/16x57-5/16x17-1/8	40-9/16x57-5/16x17-1/8
Net weight		kg(lbs.)	78(171.9)	95(209.4)	95(209.4)	102(224.9)
Gross weight		kg(lbs.)	85(187.3)	106(233.7)	106(233.7)	113(249.1)
Operating temperature range		°C(°F)	Cooling -15~43°C (5~109.4°F) Heating -15~27°C(5~80.6°F)			

Notes:

Capacities are based on the following conditions:

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

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

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

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

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

VRF V4 Plus Mini Series - Heat Pump

380~415V, 3N, 60Hz



HP			4.5	5	6
Model MDV-			V120W/DCN1	V140W/DCN1	V160W/DCN1
Power supply		V/N/Hz	380-415/3/60		
Cooling	Capacity	kW	12.0	14.0	15.5
		kBtu/h	40.9	47.8	52.9
	Power input	kW	3.25	3.95	4.52
	EER		3.69	3.54	3.43
Heating	Capacity	kW	13.2	15.4	17.0
		kBtu/h	45.0	52.5	58.0
	Power input	kW	3.47	4.16	4.77
	COP		3.8	3.7	3.56
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity		
	Max. quantity		6	6	7
Compressor	Type		DC inverter		
	Quantity		1	1	1
Fan motor	Type		DC motor		
	Quantity		2	2	2
Refrigerant	Type		R410A		
	Factory charging	kg(lbs.)	3.3(7.3)	3.9(8.6)	3.9(8.6)
Pipe connections	Liquid pipe	mm(in.)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)	Φ9.53(Φ3/8)
	Gas pipe	mm(in.)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)	Φ19.1(Φ3/4)
Air flow rate		m ³ /h	6983	6500	6000
Sound pressure level		dB(A)	57	57	57
Net dimension (WxHxD)	mm		900x1327x400		
	inch		35-7/14x52-1/4x15-3/4		
Packing size (WxHxD)	mm		1030x1456x435		
	inch		40-9/16x57-5/16x17-1/8		
Net weight		kg(lbs.)	92(203)	95(209.4)	102(224.9)
Gross weight		kg(lbs.)	106(234)	106(233.7)	113(249.1)
Operating temperature range		°C(°F)	Cooling -15~43°C (5~109.4°F) Heating -15~27°C(5~80.6°F)		

Notes:

Capacities are based on the following conditions:

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

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

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

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

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

VRF V4 Plus Mini Series - Cooling Only

220~240V, 1N, 50Hz / 208~230V, 1N, 60Hz



Model (220~240V, 1N, 50Hz)			MDVC-V72W/DN1	MDVC-V92W/DN1	MDVC-V110W/DN1
Model (208~230V, 1N, 60Hz)			MDVC-V72W/DVN1	MDVC-V92W/DVN1	MDVC-V110W/DVN1
Cooling ¹	Capacity	kW	7.2	9.2	11
	Power input	kW	1.64	2.06	2.75
	EER		4.39	4.47	4
Connected indoor units	Total capacity	45-130% of outdoor unit capacity			
	Maximum quantity		4	5	6
Compressor	Type	DC inverter			
	Quantity	1			
Fan motor	Motor Type	DC			
	Quantity	1			
Refrigerant	Type	R410A			
	Factory charging	kg	1.4	1.4	1.4
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53
	Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9
Airflow rate		m ³ /h	3400	3400	3400
Sound pressure level ²		dB(A)	54	54	54
Net dimensions (WxHxD)		mm	973x862x302	973x862x302	973x862x302
Packed dimensions (WxHxD)		mm	1025x910x410	1025x910x410	1025x910x410
Net weight		kg	58	58	58
Gross weight		kg	63	63	63
Operating temperature range		°C	Cooling: -5 to 48		

Notes:

- Indoor air temperature 27°CDB, 19°CWB; outdoor air temperature 35°CDB; equivalent refrigerant piping length 7.5°Cm with zero level difference.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.
- For a system with more than one IDU, to ensure even distribution of refrigerant, the capacity of each indoor unit should not exceed 8kW.

VRF V4 Plus Mini Series - Cooling Only

220~240V, 1N, 50Hz / 208~230V, 1N, 60Hz



Model (220~240V, 1N, 50Hz)			MDVC-V145W/DN1	MDVC-V170W/DN1
Model (208~230V, 1N, 60Hz)			MDVC-V145W/DVN1	MDVC-V170W/DVN1
Cooling ¹	Capacity	kW	14.5	17
	Power input	kW	3.57	3.99
	EER		4.06	4.26
Connected indoor units	Total capacity	45-130% of outdoor unit capacity		
	Maximum quantity		8	9
Compressor	Type	DC inverter		
	Quantity	1		
Fan motor	Motor Type	DC		
	Quantity	1		
Refrigerant	Type	R410A		
	Factory charging	kg	2.6	2.6
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53
	Gas pipe	mm	Φ15.9	Φ15.9
Airflow rate		m ³ /h	5100	5100
Sound pressure level ²		dB(A)	55	55
Net dimensions (WxHxD)		mm	1053x865x523	1053x865x523
Packed dimensions (WxHxD)		mm	1120x890x560	1120x890x560
Net weight		kg	85	85
Gross weight		kg	92	92
Operating temperature range		°C	Cooling: -5 to 48	

Notes:

- Indoor air temperature 27°CDB, 19°CWB; outdoor air temperature 35°CDB; equivalent refrigerant piping length 7.5°Cm with zero level difference.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.
- For a system with more than one IDU, to ensure even distribution of refrigerant, the capacity of each indoor unit should not exceed 8kW.



VRF INDOOR UNITS
1ST & 2ND GENERATION

Wide Application Range

Wide Range of Indoor Units

2nd Gen. IDU | 1st Gen. IDU

With 11 types and more than 100 models, Midea VRF indoor units meet varied customer requirements in a wide range of locations including shopping malls, hospitals, office buildings, hotels and airports.



Multiple Appearance Options

2nd Gen. IDU | 1st Gen. IDU

For Wall Mounted Units, three interchangeable panels add extra flexibility to a universal body design.



For Four-way Cassette and Compact Four-way Cassette Units, interchangeable 360° airflow and round airflow panels are available.



360° airflow | Round airflow

For Floor Standing Units, the F3B (concealed) unit is designed to be concealed in walls while the F4 (front air intake) and F5 (underside air intake) offer a choice of air intake options.



F3B (concealed) | F4 (front air intake) | F5 (underside air intake)

Comfort And Efficiency

High Efficiency DC Fan Motor

2nd Gen. IDU

The power consumption of DC fan motor is quite less as compared to the corresponding AC type.



Quiet Operation

2nd Gen. IDU | 1st Gen. IDU

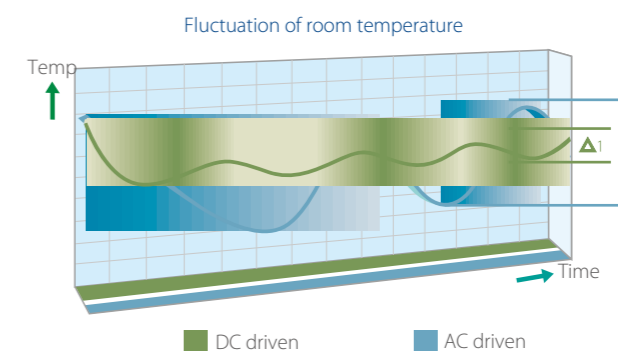
The low sound operation fan motor and optimized fan blades guarantee the air discharges smoothly and provides a quiet living environment.



Constant Level of Indoor Air Temperature

2nd Gen. IDU

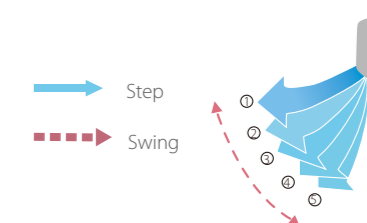
The DC Inverter fan motor adjusts the air flow based on thermal load instantly providing less temperature fluctuation and an improved living environment.



5 Swing Angles for Louver

2nd Gen. IDU

Thanks to the 5 swing angles for indoor unit louver, the air flow direction can be controlled more precisely.

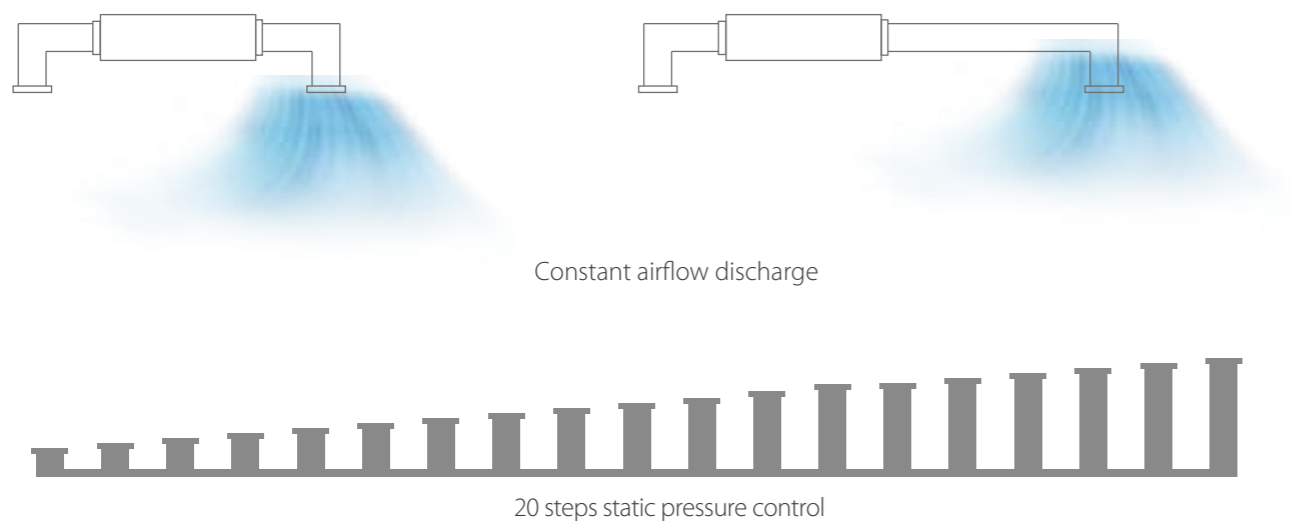


Comfort and Efficiency

Static Pressure 20 Steps Control (Duct Unit)

2nd Gen. IDU

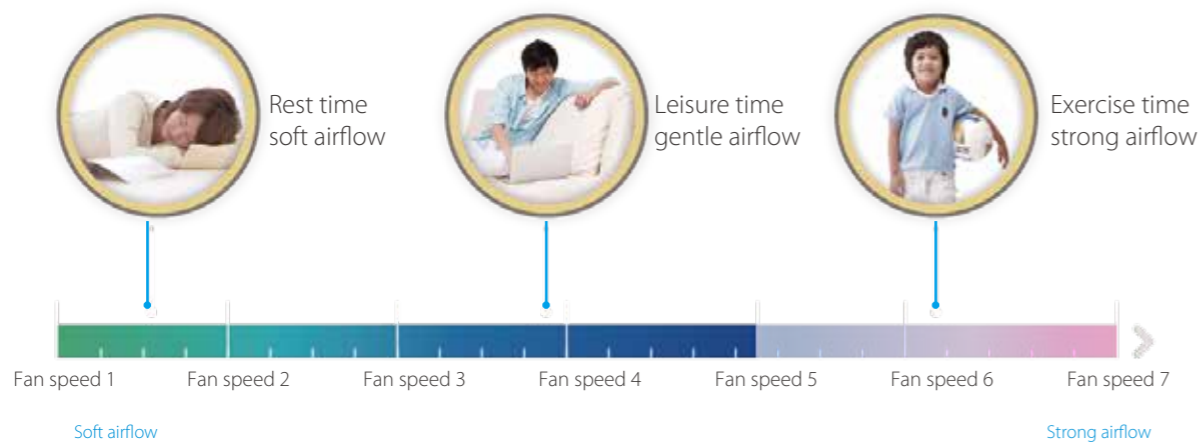
Depending on the installation environment, medium static pressure duct is controlled the static pressure up to 10 steps and high static pressure duct is controlled the static pressure up to 20 steps via wired remote controller, for providing comfortable environment suitable for any environment.



7-Speed Fan Control

2nd Gen. IDU

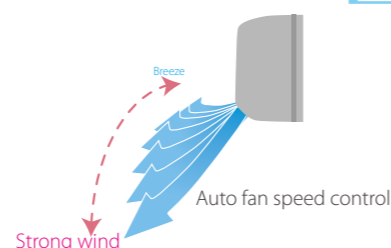
7 indoor fan speeds provide control flexibility to meet the needs of different indoor conditions.



Auto Fan Speed Mode

2nd Gen. IDU

7 fan speeds can be selected automatically according to the temperature difference between setting temperature and return air temperature under auto fan speed mode, which controls the fan speed more intelligent and creates a better indoor environment.



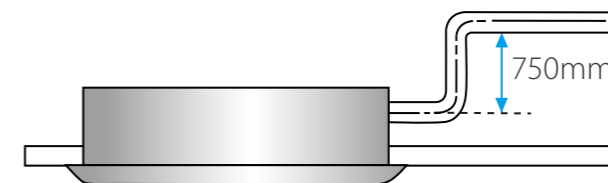
Convenience

High-lift Drain Pump

2nd Gen. IDU

1st Gen. IDU

A drain pump with a 750mm or 500mm pump head is fitted as standard or optional, simplifying installation of the drain piping.

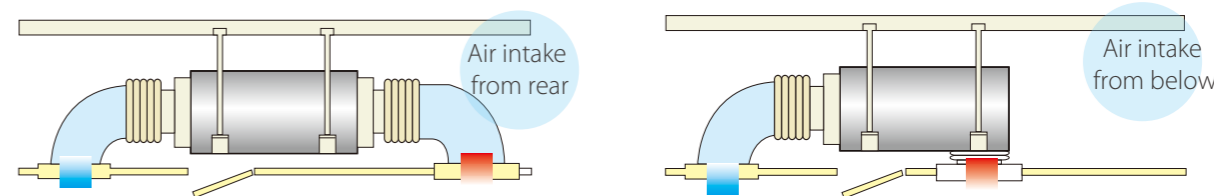


Flexible Installation

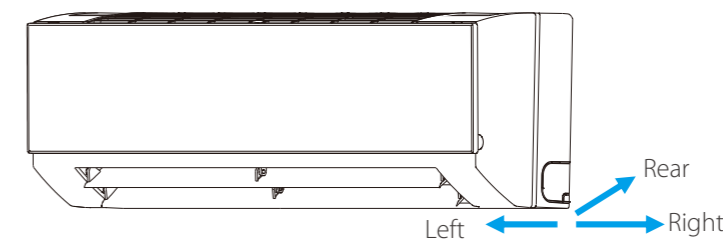
2nd Gen. IDU

1st Gen. IDU

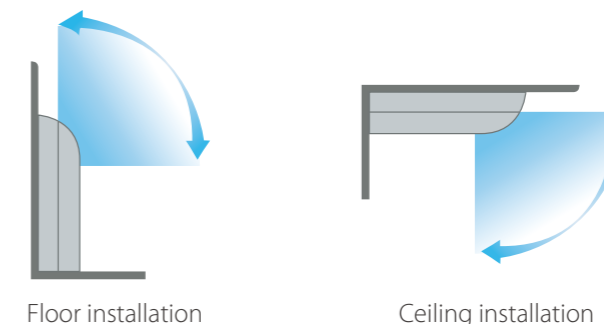
For Medium Static Pressure Duct units, to provide the flexibility to adapt to different installation situations, the air inlet may be positioned either on the underside or the rear of the unit.



For Wall Mounted Units, the refrigerant pipe direction can be left, right or rear as the installation situation requires. A new fixing plate design speeds installation and provides extra stability.



Ceiling / Floor Units can be installed either on the ceiling or the floor, providing flexibility to accommodate a wide range of room designs.



One-way Cassette

- Fresh air intake (45~71 models)
- One-way air discharge, ideal for corner locations
- Drain pump with 750mm pump head fitted as standard



Optional wireless remote controller



RM12D(C)

Optional wired controller



WDC-86E/KD



WDC-120G/WK

Model		MI2-18Q1DHN1	MI2-22Q1DHN1	MI2-28Q1DHN1	MI2-36Q1DHN1	
Power supply		1-phase, 220-240V, 50/60Hz				
Cooling ¹	Capacity	kW	1.8	2.2	2.8	3.6
		kBtu/h	6.1	7.5	9.6	12.3
	Power input	W	25	25	30	30
Heating ²	Capacity	kW	2.2	2.6	3.2	4.0
		kBtu/h	7.5	8.9	10.9	13.6
	Power input	W	25	25	30	30
Air flow rate ³	m ³ /h	380/355/330/300/286/263/240		460/440/410/380/355/330/300		
Sound pressure level ⁴	dB(A)	30/28/27/26/25/24/22		37/36/35/34/32/31/30	38/37/35/34/32/31/30	
Main body	Net dimensions ⁵ (WxHxD)	mm 1054x153x425				
	Packed dimensions (WxHxD)	mm 1155x245x490				
	Net/Gross weight	kg 11.8/15.3		12.3/15.8		
Panel	Net dimensions (WxHxD)	mm 1180x25x465				
	Packed dimensions (WxHxD)	mm 1232x107x517				
	Net/Gross weight	kg 3.5/5.2				
Pipe connections	Liquid/Gas pipe	mm Φ 6.35/ Φ 12.7				
	Drain pipe	mm OD Φ 32				

Model		MI2-45Q1DHN1	MI2-56Q1DHN1	MI2-71Q1DHN1	
Power supply		1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	4.5	5.6	7.1
		kBtu/h	15.4	19.1	24.2
	Power input	W	40	48	60
Heating ²	Capacity	kW	5.0	6.3	8.0
		kBtu/h	17.1	21.5	27.3
	Power input	W	40	48	60
Air flow rate ³	m ³ /h	693/662/638/600/556/510/476	792/763/728/688/643/589/549	933/873/815/749/689/637/592	
Sound pressure level ⁴	dB(A)	39/37/36/35/34/32/31	41/39/38/37/36/35/33	43/41/40/39/37/36/35	
Main body	Net dimensions ⁵ (WxHxD)	mm 1275x189x450			
	Packed dimensions (WxHxD)	mm 1370x295x505			
	Net/Gross weight	kg 16.1/20.4	16.4/20.7	17.6/22.4	
Panel	Net dimensions (WxHxD)	mm 1350x25x505			
	Packed dimensions (WxHxD)	mm 1410x95x560			
	Net/Gross weight	kg 4/5.4			
Pipe connections	Liquid/Gas pipe	mm Φ 6.35/ Φ 12.7	Φ 9.53/ Φ 15.9		
	Drain pipe	mm OD Φ 32			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Two-way Cassette

- Fresh air intake
- Two-way air discharge, perfect for limited ceiling space applications
- Drain pump with 750mm pump head fitted as standard



Optional wireless remote controller



RM12D(C)

Optional wired controller



WDC-86E/KD



WDC-120G/WK

Model		MI2-22Q2DHN1	MI2-28Q2DHN1	MI2-36Q2DHN1	
Power supply		1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	2.2	2.8	3.6
		kBtu/h	7.5	9.6	12.3
	Power input	W	35	40	40
Heating ²	Capacity	kW	2.6	3.2	4.0
		kBtu/h	8.9	10.9	13.6
	Power input	W	35	40	40
Air flow rate ³	m ³ /h	654/612/571/530/488/449/410	654/612/571/530/488/449/410	725/679/641/591/554/509/458	
Sound pressure level ⁴	dB(A)	33/31/30/29/27/25/24	33/31/30/29/27/25/24	35/33/32/30/29/27/25	
Main body	Net dimensions ⁵ (WxHxD)	mm 1172x299x591			
	Packed dimensions (WxHxD)	mm 1355x400x675			
	Net/Gross weight	kg 33.5/42.0			
Panel	Net dimensions (WxHxD)	mm 1430x53x680			
	Packed dimensions (WxHxD)	mm 1525x130x765			
	Net/Gross weight	kg 10.5/15			
Pipe connections	Liquid/Gas pipe	mm Φ 6.35/ Φ 12.7			
	Drain pipe	mm OD Φ 32			

Model		MI2-45Q2DHN1	MI2-56Q2DHN1	MI2-71Q2DHN1	
Power supply		1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	4.5	5.6	7.1
		kBtu/h	15.4	19.1	24.2
	Power input	W	50	69	98
Heating ²	Capacity	kW	5.0	6.3	8.0
		kBtu/h	17.1	21.5	27.3
	Power input	W	50	69	98
Air flow rate ³	m ³ /h	850/792/731/670/631/592/550	980/925/855/800/755/702/670	1200/1115/1068/1000/921/808/770	
Sound pressure level ⁴	dB(A)	37/36/35/34/32/31/30	39/37/36/35/33/31/30	44/42/41/40/38/36/34	
Main body	Net dimensions ⁵ (WxHxD)	mm 1172x299x591			
	Packed dimensions (WxHxD)	mm 1355x400x675			
	Net/Gross weight	kg 35/43.5			
Panel	Net dimensions (WxHxD)	mm 1430x53x680			
	Packed dimensions (WxHxD)	mm 1525x130x765			
	Net/Gross weight	kg 10.5/15			
Pipe connections	Liquid/Gas pipe	mm Φ 6.35/ Φ 12.7	Φ 9.53/ Φ 15.9		
	Drain pipe	mm OD Φ 32			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Compact Four-way Cassette

- 360° airflow allows for even, wide-range cooling and heating
- Drain pump with 500mm pump head fitted as standard



Optional wireless remote controller



RM12D(C)

Optional wired controller



WDC-86E/KD



WDC-120G/WK

Model			MI2-22Q4CDHN1	MI2-28Q4CDHN1
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
	Power input	W	35	35
Heating ²	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
	Power input	W	35	35
Air flow rate ³		m ³ /h	414/380/345/313/288/268/238	
Sound pressure level ⁴		dB(A)	35/34/33/29/26/23/22	
Main body	Net dimensions ⁵ (WxHxD)		630x260x570	
	Packed dimensions (WxHxD)		700x345x660	
	Net/Gross weight		18/23.8	
Panel	Net dimensions (WxHxD)		647x50x647	
	Packed dimensions (WxHxD)		715x123x715	
	Net/Gross weight		2.5/4.5	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	OD Φ25	

Model			MI2-36Q4CDHN1	MI2-45Q4CDHN1
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	3.6	4.5
		kBtu/h	12.3	15.4
	Power input	W	40	50
Heating ²	Capacity	kW	4.0	5.0
		kBtu/h	13.6	17.1
	Power input	W	40	50
Air flow rate ³		m ³ /h	521/485/450/409/380/350/314	
Sound pressure level ⁴		dB(A)	41/38/35/32/30/29/28	
Main body	Net dimensions ⁵ (WxHxD)		630x260x570	
	Packed dimensions (WxHxD)		700x345x660	
	Net/Gross weight		19.2/25.0	
Panel	Net dimensions (WxHxD)		647x50x647	
	Packed dimensions (WxHxD)		715x123x715	
	Net/Gross weight		2.5/4.5	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	OD Φ25	

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Four-way Cassette

- Fresh air intake
- Round airflow, allows wide-angle, equal distribution of cooling and heating
- Drain pump with 750mm pump head fitted as standard
- Brand-new, elegant panel with four independently controlled louvers



Optional wireless remote controller



RM12D(C)

Optional wired controller



WDC-86E/KD



WDC-120G/WK

Model			MI2-28Q4DHN1	MI2-36Q4DHN1	MI2-45Q4DHN1	MI2-56Q4DHN1	MI2-71Q4DHN1
Power supply			1 phase, 220-240V, 50/60Hz				
Cooling ¹	Capacity	kW	2.8	3.6	4.5	5.6	7.1
		kBtu/h	9.6	12.3	15.4	19.1	24.2
	Power input	W	40	45	50	60	70
Heating ²	Capacity	kW	3.2	4.0	5.0	6.3	8.0
		kBtu/h	10.9	13.6	17.1	21.5	27.3
	Power input	W	40	45	50	60	70
Air flow rate ³		m ³ /h	801/751/711/658/637/611/542	801/751/711/658/637/611/542	893/866/804/744/714/698/635	893/866/804/744/714/698/635	977/937/864/800/778/738/671
Sound pressure level ⁴		dB(A)	32/31/30/28/28/26/23		35/34/31/31/30/28/26		35/35/34/31/30/28/27
Main body	Net dimensions ⁵ (WxHxD)		840x230x840				
	Packed dimensions (WxHxD)		955x260x955				
	Net/Gross weight		kg	21.3/25.8	21.3/25.8	23.2/27.6	23.2/27.6
Panel	Net dimensions (WxHxD)		950x54.5x950				
	Packed dimensions (WxHxD)		1035x90x1035				
	Net/Gross weight		kg	5.5/8.2			
Pipe 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				

Model			MI2-80Q4DHN1	MI2-90Q4DHN1	MI2-100Q4DHN1	MI2-112Q4DHN1	MI2-140Q4DHN1	MI2-160Q4DHN1
Power supply			1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	8.0	9.0	10.0	11.2	14.0	16.0
		kBtu/h	27.3	30.7	34.1	38.2	47.8	54.5
	Power input	W	96	100	150	160	170	170
Heating ²	Capacity	kW	9.0	10.0	11.0	12.5	16.0	18.0
		kBtu/h	30.7	34.1	37.5	42.7	54.6	61.3
	Power input	W	96	100	150	160	170	170
Air flow rate ³		m ³ /h	1203/1131/1064/977/912/840/774	1349/1294/1230/1201/1111/1029/970	1700/1600/1440/1250/1200/1150/1100	1700/1600/1440/1250/1200/1150/1100	1800/1650/1500/1300/1250/1200/1150	2100/1950/1800/1750/1600/1450/1350
Sound pressure level ⁴		dB(A)	36/35/34/31/31/29/28	37/35/34/31/31/30/28	43/42/40/38/37/35/34	43/42/40/38/37/35/34	45/44/42/41/40/39/37	46/44/42/41/39/38/37
Main body	Net dimensions ⁵ (WxHxD)		840x230x840		840x300x840			950x300x950
	Packed dimensions (WxHxD)		955x260x955		955x330x955			1050x335x1050
	Net/Gross weight		kg	23.2/27.6	28.4/33.8	30.7/35.8		35.3/41.2
Panel	Net dimensions (WxHxD)		950x54.5x950					
	Packed dimensions (WxHxD)		1035x90x1035					
	Net/Gross weight		kg	5.5/8.2				
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9					
	Drain pipe	mm	OD Φ32					

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Medium Static Pressure Duct

- Fresh air intake
- 6-step static pressure control on 2.2kW to 7.1kW models and 10-step static pressure control on 8kW to 14kW units (requires 2nd generation wired controllers)
- Drain pump with 750mm pump head fitted as standard
- Flexible installation for the air inlet may be positioned either on the underside or the rear of the unit



Optional wireless remote controller



RM12D(C)

Optional wired controller



WDC-86E/KD WDC-120G/WK

Model		MI2-22T2DHN1	MI2-28T2DHN1	MI2-36T2DHN1
Power supply		1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW 2.2	2.8	3.6
	Power input	kBtu/h 7.5	9.6	12.3
Heating ²	Capacity	kW 2.6	3.2	4.0
	Power input	kBtu/h 8.2	10.9	13.6
Air flow rate ³		m ³ /h 520/480/440/400/360/330/300		
External static pressure		Pa 10 (0~50)		
Sound pressure level ⁴		dB(A) 32/31/29/28/26/25/23		
Unit	Net dimensions ⁵ (WxHxD)	mm 780x210x500		
	Packed dimensions (WxHxD)	mm 870x285x525		
	Net/Gross weight	kg 18/21		
	Liquid/Gas pipe	mm Φ6.35/ Φ12.7		
Pipe connections	Drain pipe	mm OD Φ25		

Model		MI2-45T2DHN1	MI2-56T2DHN1	MI2-71T2DHN1
Power supply		1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW 4.5	5.6	7.1
	Power input	kBtu/h 15.4	19.1	24.2
Heating ²	Capacity	kW 5.0	6.3	8.0
	Power input	kBtu/h 17.1	21.5	27.3
Air flow rate ³		m ³ /h 800/740/680/620/540/480/400		
External static pressure		Pa 10 (0~50)		
Sound pressure level ⁴		dB(A) 36/34/32/31/29/27/25		
Unit	Net dimensions ⁵ (WxHxD)	mm 1000x210x500		
	Packed dimensions (WxHxD)	mm 1090x285x525		
	Net/Gross weight	kg 21.5/25		
	Liquid/Gas pipe	mm Φ6.35/ Φ12.7		
Pipe connections	Drain pipe	mm OD Φ25		

Model		MI2-80T2DHN1	MI2-90T2DHN1	MI2-112T2DHN1	MI2-140T2DHN1	MI2-160T2DHN1
Power supply		1 phase, 220-240V, 50/60Hz				
Cooling ¹	Capacity	kW 8.0	9.0	11.2	14.0	16.0
	Power input	kBtu/h 27.3	30.7	38.2	47.8	54.6
Heating ²	Capacity	kW 9.0	10.0	12.5	15.5	18.0
	Power input	kBtu/h 30.7	34.1	42.7	52.9	61.4
Air flow rate ³		m ³ /h 1260/1180/1100/1020/940/860/780				
External static pressure		Pa 20 (10~100)				
Sound pressure level ⁴		dB(A) 37/35/34/33/31/29/28				
Unit	Net dimensions ⁵ (WxHxD)	mm 1230x270x775				
	Packed dimensions (WxHxD)	mm 1355x355x795				
	Net/Gross weight	kg 36.5/44.5				
	Liquid/Gas pipe	mm Φ9.53/Φ15.9				
Pipe connections	Drain pipe	mm OD Φ25				

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
- All specifications are measured at standard external static pressure.

High Static Pressure Duct

- External static pressure up to 400Pa facilitates extensive duct and grille network
- 20-step static pressure control on all models (requires 2nd generation wired controllers)
- A double-skin drainage pan provides double protection for ceilings (models 71 to 160)
- Water pump box is available as a customization option



Optional wireless remote controller



RM12D(C)

Optional wired controller



WDC-86E/KD WDC-120G/WK

Model		MI2-71T1DHN1	MI2-80T1DHN1	MI2-90T1DHN1	MI2-112T1DHN1
Power supply		1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW 7.1	8.0	9.0	11.2
	Power input	kBtu/h 24.2	27.3	30.7	38.2
Heating ²	Capacity	kW 8.0	9.0	10.0	12.5
	Power input	kBtu/h 27.3	30.7	34.1	42.7
Air flow rate ³		m ³ /h 1360/1327/1293/1260			
External static pressure		Pa 100 (30~200)			
Sound pressure level ⁴		dB(A) 42/41/40/40/39/39/38			
unit	Net dimensions ⁵ (WxHxD)	mm 965x423x690			
	Packed dimensions(WxHxD)	mm 1090x440x768			
	Net/Gross weight	kg 41/47			
	Liquid/Gas pipe	mm Φ9.53/Φ15.9			
Pipe connections	Drain pipe	mm OD Φ25			

Model		MI2-140T1DHN1	MI2-160T1DHN1	MI2-200T1DHN1	MI2-250T1DHN1
Power supply		1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW 14.0	16.0	20.0	25.0
	Power input	kBtu/h 47.8	54.6	68.2	85.3
Heating ²	Capacity	kW 16.0	17.0	22.5	26.0
	Power input	kBtu/h 54.6	58.0	76.8	88.7
Air flow rate ³		m ³ /h 2240/2133/2027/1920			
External static pressure		Pa 100 (30~200)			
Sound pressure level ⁴		dB(A) 45/44/43/42/41/40/40			
unit	Net dimensions ⁵ (WxHxD)	mm 1322x423x691			
	Packed dimensions(WxHxD)	mm 1436x450x768			
	Net/Gross weight	kg 68/76			
	Liquid/Gas pipe	mm Φ9.53/Φ15.9			
Pipe connections	Drain pipe	mm OD Φ25			

Model		MI2-280T1DHN1	MI2-400T1DHN1	MI2-450T1DHN1	MI2-560T1DHN1
Power supply		1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW 28.0	40.0	45.0	56.0
	Power input	kBtu/h 95.0	136.5	153.6	191.1
Heating ²	Capacity	kW 31.5	45.0	56.0	63.0
	Power input	kBtu/h 107.5	153.6	191.1	215.0
Air flow rate ³		m ³ /h 4330/4230/4130/4030			
External static pressure		Pa 170(20~250)			
Sound pressure level ⁴		dB(A) 51/50/49/49/48/48/47			
unit	Net dimensions ⁵ (WxHxD)	mm 1454x515x931			
	Packed dimensions(WxHxD)	mm 2010x680x905			
	Net/Gross weight	kg 130/142			
	Liquid/Gas pipe	mm Φ12.7/Φ22.2			
Pipe connections	Drain pipe	mm OD Φ32			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
- All specifications are measured at standard external static pressure.

Fresh Air Processing Unit

- 100% fresh air processing unit, both fresh air filtration and heating/cooling can be achieved in a single system
- External static pressure up to 400Pa facilitates extensive duct and grille network
- 20-step static pressure control on all models (requires latest generation wired controllers)
- Water pump box is available as a customization option



Optional wireless remote controller



RM12D(C)

Optional wired controller



WDC-86E/KD WDC-120G/WK

Model		MI2-125FADHN1	MI2-140FADHN1	MI2-200FADHN1	
Power supply		1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	12.5	14.0	20.0
		kBtu/h	42.6	47.8	68.2
	Power input	W	480	480	850
Heating ²	Capacity	kW	10.5	12.0	12.8
		kBtu/h	36.0	41.0	43.7
	Power input	W	480	480	850
Air flow rate ³	m ³ /h	2000/1917/1833/1750/1667/1583/1500		3000/2833/2667/2500/2333/2167/2000	
External static pressure	Pa	150(100~250)		200(100~400)	
Sound pressure level ⁴	dB(A)	48/47/46/45/44/43/42		50/49/48/47/46/44/43	
unit	Net dimensions ⁵ (WxHxD)	mm	1322x423x691		1454x515x931
	Packed dimensions (WxHxD)	mm	1436x450x768		1509x550x990
	Net/Gross weight	kg	68/76		130/142
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		Φ12.7/Φ22.2
	Drain pipe	mm	OD Φ25		OD Φ32

Model		MI2-250FADHN1	MI2-280FADHN1	MI2-450FADHN1	MI2-560FADHN1	
Power supply		1-phase, 220-240V, 50/60Hz				
Cooling ¹	Capacity	kW	25.0	28.0	45.0	56.0
		kBtu/h	85.3	95.5	153.6	191.1
	Power input	W	850	850	1080	2272
Heating ²	Capacity	kW	16.0	18.0	28.0	39.0
		kBtu/h	54.6	61.4	95.6	133.1
	Power input	W	850	850	1080	2272
Air flow rate ³	m ³ /h	3000/2833/2667/2500/2333/2167/2000		4200/3967/3733/3500/3267/3033/2800	6000/5665/5330/5000/4665/4330/4000	
External static pressure	Pa	200(100~400)		300(100~400)	300(100~400)	
Sound pressure level ⁴	dB(A)	50/49/48/47/46/44/43		58/56/55/53/51/49/48	59/57/56/55/53/51/50	
unit	Net dimensions ⁵ (WxHxD)	mm	1454x515x931		2010x680x905	2010x680x905
	Packed dimensions (WxHxD)	mm	1509x550x990		2095x800x964	2095x800x964
	Net/Gross weight	kg	130/142		195/215	218/248
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2		Φ15.9/Φ28.6	Φ15.9/Φ28.6
	Drain pipe	mm	OD Φ32			

Notes:

1. Outdoor temperature 33°C DB, 28°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Outdoor temperature 0°C DB, -2.9°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments. All specifications are measured at standard external static pressure.

The Fresh Air Processing Unit can be used either independently or in conjunction with other types of indoor unit. If used independently, the total capacity of the Fresh Air Processing Units must be between 50% and 100% of that of the outdoor units. If used in conjunction with other types of indoor unit, the total capacity of the indoor and Fresh Air Processing Units must be between 50% and 100% of that of the outdoor units and the total capacity of the Fresh Air Processing Units must not exceed 30% of that of the outdoor units.

Wall Mounted Unit

- Three interchangeable panels allow units to blend easily with any interior decoration, perfect for rooms with no false ceilings or free floor space
- Refrigerant pipe direction can be left, right or rear as the installation situation requires



Optional wireless remote controller



RM12D(C)

Optional wired controller



WDC-86E/KD WDC-120G/WK

Model		MI2-22GDHN1	MI2-28GDHN1	
Power supply		1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
	Power input	W	28	28
Heating ²	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
	Power input	W	28	28
Air flow rate ³	m ³ /h	422/411/402/393/380/368/356		417/402/386/370/353/338/316
Sound pressure level ⁴	dB(A)	31/30/30/30/29/29/29		31/30/30/30/29/29/29
Unit	Net dimensions ⁵ (WxHxD)	mm	835x280x203	
	Packed dimensions (WxHxD)	mm	935x385x320	
	Net/Gross weight	kg	8.4/12.1	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	OD Φ16	

Model		MI2-36GDHN1	MI2-45GDHN1	MI2-56GDHN1	
Power supply		1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	3.6	4.5	5.6
		kBtu/h	12.3	15.4	19.1
	Power input	W	30	40	45
Heating ²	Capacity	kW	4.0	5.0	6.3
		kBtu/h	13.6	17.1	21.5
	Power input	W	30	40	45
Air flow rate ³	m ³ /h	656/628/591/573/544/515/488		594/563/535/507/478/450/424	747/713/685/648/613/578/547
Sound pressure level ⁴	dB(A)	33/32/32/31/31/30/30		35/34/33/33/32/31/31	38/37/36/36/35/34/34
Unit	Net dimensions ⁵ (WxHxD)	mm	990x315x223		
	Packed dimensions (WxHxD)	mm	1085x420x335		
	Net/Gross weight	kg	11.4/15.5		12.8/16.9
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ16		

Model		MI2-71GDHN1	MI2-80GDHN1	MI2-90GDHN1	
Power supply		1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	7.1	8.0	9.0
		kBtu/h	24.2	27.3	30.7
	Power input	W	55	55	82
Heating ²	Capacity	kW	8.0	9.0	10.0
		kBtu/h	27.3	30.7	34.1
	Power input	W	55	55	82
Air flow rate ³	m ³ /h	1195/1130/1065/1005/940/875/809		1195/1130/1065/1005/940/875/809	1421/1300/1125/1067/1005/934/867
Sound pressure level ⁴	dB(A)	44/43/42/39/38/37/36		44/43/42/39/38/37/36	48/46/45/43/41/40/38
Unit	Net dimensions ⁵ (WxHxD)	mm	1194x343x262		
	Packed dimensions (WxHxD)	mm	1290x375x460		
	Net/Gross weight	kg	17.0/22.4		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	OD Φ16		

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1m in front and 1m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Ceiling / Floor

- Can be installed either on the ceiling or floor

Optional wireless remote controller



RM12D(C)

Optional wired controller



WDC-86E/KD



WDC-120G/WK



Model			MI2-36DLH1	MI2-45DLH1	MI2-56DLH1	MI2-71DLH1
Power supply			1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	3.6	4.5	5.6	7.1
		kBtu/h	12.3	15.4	19.1	24.2
	Power input	W	49	115	115	115
Heating ²	Capacity	kW	4.0	5.0	6.3	8.0
		kBtu/h	13.6	17.1	21.5	27.3
	Power input	W	49	115	115	115
Air flow rate ³		m ³ /h	550/525/500/480/460/440/420		800/750/700/650/600/550/500	
Sound pressure level ⁴		dB(A)	36/35/34/33/32/31/30		43/42/41/41/39/38/38	
Unit	Net dimensions ⁵ (WxHxD)	mm	990×660×203			
	Packed dimensions (WxHxD)	mm	1089×744×296			
	Net/Gross weight	kg	27/33	28/34		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ16			

Model			MI2-80DLH1	MI2-90DLH1	MI2-112DLH1	MI2-140DLH1
Power supply			1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	8.0	9.0	11.2	14.0
		kBtu/h	27.2	30.7	38.2	47.8
	Power input	W	130	130	180	180
Heating ²	Capacity	kW	9.0	10.0	12.5	15.0
		kBtu/h	30.7	34.1	42.7	51.2
	Power input	W	130	130	180	180
Air flow rate ³		m ³ /h	1280/1245/1210/1170/1130/1085/1050		1890/1830/1765/1700/1660/1620/1580	
Sound pressure level ⁴		dB(A)	45/44/43/43/42/41/40		47/46/45/45/44/43/42	
Unit	Net dimensions ⁵ (WxHxD)	mm	1280×660×203		1670×680×244	
	Packed dimensions (WxHxD)	mm	1379×744×296		1915×760×330	
	Net/Gross weight	kg	35/41		48/58	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9			
	Drain pipe	mm	OD Φ16			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).
Floor standing: Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.
Ceiling mounted: Sound pressure level is measured 1m in front and 1m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Floor Standing Unit (Concealed)

- Designed to be concealed in walls with only the suction and discharge grills visible

Optional wireless remote controller



RM12D(C)

Optional wired controller



WDC-86E/KD



WDC-120G/WK



Model			MI2-22F3DHN1	MI2-28F3DHN1
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
	Power input	W	40	45
Heating ²	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
	Power input	W	40	45
Air flow rate ³		m ³ /h	530/504/478/456/439/418/400	
Sound pressure level ⁴		dB(A)	36/35/34/33/31/30/29	
Unit	Net dimensions ⁵ (WxHxD)	mm	840×545×212	
	Packed dimensions (WxHxD)	mm	939×639×305	
	Net/Gross weight	kg	21.4/25.6	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	Φ16	

Model			MI2-36F3DHN1	MI2-45F3DHN1
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW	3.6	4.5
		kBtu/h	12.3	15.4
	Power input	W	55	60
Heating ²	Capacity	kW	4.0	5.0
		kBtu/h	13.6	17.1
	Power input	W	55	60
Air flow rate ³		m ³ /h	624/591/557/522/473/420/375	
Sound pressure level ⁴		dB(A)	37/36/35/34/32/31/30	
Unit	Net dimensions ⁵ (WxHxD)	mm	1040×545×212	
	Packed dimensions (WxHxD)	mm	1139×639×305	
	Net/Gross weight	kg	26.1/30.6	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	Φ16	

Model			MI2-56F3DHN1	MI2-71F3DHN1	MI2-80F3DHN1
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	5.6	7.1	8.0
		kBtu/h	19.1	24.2	27.3
	Power input	W	88	110	130
Heating ²	Capacity	kW	6.3	8.0	9.0
		kBtu/h	21.5	27.3	30.7
	Power input	W	88	110	130
Air flow rate ³		m ³ /h	1150/1094/1028/970/925/886/830	1380/1290/1205/1100/1033/955/870	1380/1290/1205/1100/1033/955/870
Sound pressure level ⁴		dB(A)	41/39/37/35/33/32/31	44/42/40/39/37/35/33	44/42/40/39/37/35/33
Unit	Net dimensions ⁵ (WxHxD)	mm	1340×545×212		
	Packed dimensions (WxHxD)	mm	1425×639×345		
	Net/Gross weight	kg	31/39		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	Φ16		

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).
Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
All specifications are measured at 10Pa external static pressure.

Floor Standing Unit (Exposed)

- The F4 (front air intake) and F5 (underside air intake) offer a choice of air intake options



Model		MI2-22F4DHN1 MI2-22F5DHN1		MI2-28F4DHN1 MI2-28F5DHN1	
Power supply					
1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	2.2	2.8	
		kBtu/h	7.5	9.6	
Heating ²	Capacity	kW	2.4	3.2	
		kBtu/h	8.2	10.9	
Air flow rate ³		m ³ /h	530/504/478/456/439/418/400		569/540/515/485/462/443/421
Sound pressure level ⁴		dB(A)	36/35/34/33/31/30/29		36/35/34/33/31/30/29
Unit	Net dimensions ⁵ (WxHxD)	mm (F4)	1000x596x225		
		mm (F5)	1000x677x220		
	Packed dimensions (WxHxD)	mm (F4)	1089x683x312		
		mm (F5)	1182x683x312		
Net/Gross weight	kg (F4)	28.2/32.8			
	kg (F5)	28.2/35.8			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	Drain pipe	mm	Φ16		

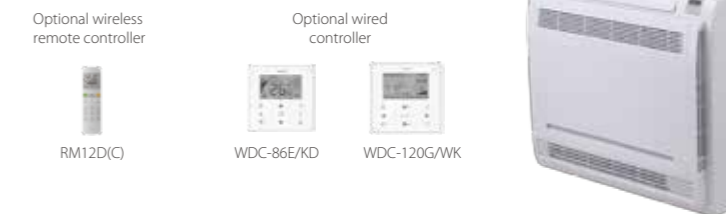
Model		MI2-36F4DHN1 MI2-36F5DHN1		MI2-45F4DHN1 MI2-45F5DHN1	
Power supply					
1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	3.6	4.5	
		kBtu/h	12.3	15.4	
Heating ²	Capacity	kW	4.0	5.0	
		kBtu/h	13.6	17.1	
Air flow rate ³		m ³ /h	624/591/557/522/473/420/375		660/625/583/542/501/475/440
Sound pressure level ⁴		dB(A)	37/36/35/34/32/31/30		37/36/35/34/32/31/30
Unit	Net dimensions ⁵ (WxHxD)	mm (F4)	1200x596x225		
		mm (F5)	1200x677x220		
	Packed dimensions (WxHxD)	mm (F4)	1289x683x312		
		mm (F5)	1382x683x312		
Net/Gross weight	kg (F4)	33.1/38.2			
	kg (F5)	33.5/41.8			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	Drain pipe	mm	Φ16		

Model		MI2-56F4DHN1 MI2-56F5DHN1		MI2-71F4DHN1 MI2-71F5DHN1		MI2-80F4DHN1 MI2-80F5DHN1	
Power supply							
1 phase, 220-240V, 50/60Hz							
Cooling ¹	Capacity	kW	5.6	7.1	8.0		
		kBtu/h	19.1	24.2	27.3		
Heating ²	Capacity	kW	6.3	8.0	9.0		
		kBtu/h	21.5	27.3	30.7		
Air flow rate ³		m ³ /h	1150/1094/1028/970/925/886/830		1380/1290/1205/1100/1033/955/870	1380/1290/1205/1100/1033/955/870	
Sound pressure level ⁴		dB(A)	41/39/37/35/33/32/31		44/42/40/39/37/35/33	44/42/40/39/37/35/33	
Unit	Net dimensions ⁵ (WxHxD)	mm (F4)	1500x596x225				
		mm (F5)	1500x677x220				
	Packed dimensions (WxHxD)	mm (F4)	1589x683x312				
		mm (F5)	1682x683x312				
Net/Gross weight	kg (F4)	38.4/44.6					
	kg (F5)	39/47.7					
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9				
	Drain pipe	mm	Φ16				

- Notes:
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Each model's 7 airflow rate options are listed in order, from highest to lowest.
 - Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).
Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Console

- Combination of four air inlets and two air outlets ensures that cooling and heating are distributed in all directions.



Model		MI2-22ZDHN1		MI2-28ZDHN1	
Power supply					
1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	2.2	2.8	
		kBtu/h	7.5	9.6	
Heating ²	Capacity	kW	2.6	3.2	
		kBtu/h	8.9	10.9	
Air flow rate ³		m ³ /h	430/401/374/345/302/268/229		510/482/456/430/355/286/229
Sound pressure level ⁴		dB(A)	38/36/34/32/28/27/26		39/37/35/33/31/29/27
Unit	Net dimensions ⁵ (WxHxD)	mm	700x600x210		
	Packed dimensions (WxHxD)	mm	810x710x305		
	Net/Gross weight	kg	14/19	15/20	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	Drain pipe	mm	OD Φ16		

Model		MI2-36ZDHN1		MI2-45ZDHN1	
Power supply					
1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	3.6	4.5	
		kBtu/h	12.3	15.4	
Heating ²	Capacity	kW	4.0	5.0	
		kBtu/h	13.4	17.1	
Air flow rate ³		m ³ /h	510/482/456/430/355/286/229		660/614/561/512/478/436/400
Sound pressure level ⁴		dB(A)	39/37/35/33/31/29/27		42/41/40/39/37/36/36
Unit	Net dimensions ⁵ (WxHxD)	mm	700x600x210		
	Packed dimensions (WxHxD)	mm	810x710x305		
	Net/Gross weight	kg	15/20		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	Drain pipe	mm	OD Φ16		

- Notes:
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Each model's 7 airflow rate options are listed in order, from highest to lowest.
 - Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).
Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

One-way Cassette

- Fresh air intake (45~71 models)
- One-way air discharge, ideal for corner locations
- Drain pump with 750mm pump head fitted as standard

Standard wireless remote controller



RM05



50Hz specification

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	48	48	60
Airflow rate(H/W/L)	m ³ /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.(WxHxD)	mm	1054x153x425	1054x153x425	1054x153x425	1054x153x425	1275x189x450	1275x189x450	
	Packing dim.(WxHxD)	mm	1155x245x490	1155x245x490	1155x245x490	1155x245x490	1370x295x505	1370x295x505	
	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.(WxHxD)	mm	1180x25x465	1180x25x465	1180x25x465	1180x25x465	1350x25x505	1350x25x505	
	Packing dim.(WxHxD)	mm	1232x107x517	1232x107x517	1232x107x517	1232x107x517	1410x95x560	1410x95x560	
	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	
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		Wireless remote controller							

60Hz specification

Model		MDV-D18Q1/VN1-D	MDV-D22Q1/VN1-D	MDV-D28Q1/VN1-D	MDV-D36Q1/VN1-D	MDV-D45Q1/VN1-D	MDV-D56Q1/VN1-D	MDV-D71Q1/VN1-D	
Power supply		1-phase,208-230V,60Hz							
Cooling capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1	
	Btu/h	6100	7500	9600	12300	15400	19100	24200	
Heating capacity	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0	
	Btu/h	7500	8900	10900	13600	17100	21500	27300	
Power input	Cooling	W	41	41	41	41	54	60	
	Heating	W	41	41	41	41	54	60	
Airflow rate(H/W/L)	m ³ /h	523/404/275	523/404/275	573/456/315	573/456/315	693/600/476	792/688/549	933/749/592	
	CFM	308/238/162	308/238/162	337/268/185	337/268/185	408/353/280	466/405/323	549/441/349	
Sound pressure level(H/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.(WxHxD)	mm(in.)	1054x153x425(41-1/2x6-1/32x16-47/64)			1275x189x450(50-13/64x7-7/16x17-23/32)			
	Packing dim.(WxHxD)	mm(in.)	1155x245x490(45-15/32x9-41/64x19-19/64)			1370x295x505(53-15/16x11-39/64x19-7/8)			
	Net/gross weight	kg(lbs.)	12.5/16(27.8/35.3)		13/16.5(28.8/36.4)		18.5/22.8(40.8/50.3)		18.8/23.1(41.4/50.9)
Panel	Net dim.(WxHxD)	mm(in.)	1180x25x465(46-29/64x63/64x18-5/16)			1350x25x505(53-5/32x63/64x19-7/8)			
	Packing dim.(WxHxD)	mm(in.)	1232x107x517(48-1/2x4-7/32x20-23/64)			1410x95x560(55-33/64x3-47/64x22-3/64)			
	Net/gross weight	kg(lbs.)	3.5/5.2(7.7/11.5)			4/5.4(8.8/11.9)			
Piping connections	Liquid/gas pipe	mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)				Φ9.53/Φ15.9(Φ3/8/Φ5/8)		
	Drain pipe	mm(in.)	Φ25(OD 63/64)						
Standard controller		Wireless remote controller							

Notes:

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

Two-way Cassette

- Fresh air intake
- Two-way air discharge, perfect for limited ceiling space applications
- Drain pump with 750mm pump head fitted as standard

Standard wireless remote controller



RM05



50Hz specification

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
	Heating	kW	2.6	3.2	4.0	5.0	6.3
Power input	Cooling	W	57	57	60	92	108
	Heating	W	57	57	60	92	108
Airflow rate(H/W/L)	m ³ /h	654/530/410	725/591/458	725/591/458	850/670/550	980/800/670	1200/1000/770
Sound pressure level(H/W/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.(WxHxD)	mm	1172x299x591	1172x299x591	1172x299x591	1172x299x591	1172x299x591
	Packing dim.(WxHxD)	mm	1355x400x675	1355x400x675	1355x400x675	1355x400x675	1355x400x675
	Net/gross weight	kg	34/42.5	34/42.5	34/42.5	36/44.5	36/44.5
Panel	Net dim.(WxHxD)	mm	1430x53x680	1430x53x680	1430x53x680	1430x53x680	1430x53x680
	Packing dim.(WxHxD)	mm	1525x130x765	1525x130x765	1525x130x765	1525x130x765	1525x130x765
	Net/gross weight	kg	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
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller		Wireless remote controller					

60Hz specification

Model		MDV-D22Q2/VN1	MDV-D28Q2/VN1	MDV-D36Q2/VN1	MDV-D45Q2/VN1	MDV-D56Q2/VN1	MDV-D71Q2/VN1	
Power supply		1-phase,208-230V,60Hz						
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	Btu/h	7500	9600	12300	15400	19100	24200	
Heating capacity	kW	2.6	3.2	4.0	5.0	6.3	8.0	
	Btu/h	8900	10900	13600	17100	21500	27300	
Power input	Cooling	W	78	78	83	115	133	
	Heating	W	78	78	83	115	133	
Airflow rate(H/W/L)	m ³ /h	674/509/381	740/577/435	740/577/435	878/689/561	941/776/654	1236/1110/864	
	CFM	397/300/224	436/340/256	436/340/256	517/406/330	554/457/385	727/653/509	
Sound pressure level(H/W/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.(WxHxD)	mm(in.)	1172x299x591(46-9/32x11-49/64x23-17/64)					
	Packing dim.(WxHxD)	mm(in.)	1355x400x675(53-11/32x15-3/4x26-37/64)					
	Net/gross weight	kg(lbs.)	34/42.5(75/94)			36.5/45(80.5/99)		
Panel	Net dim.(WxHxD)	mm(in.)	1430x53x680(56-19/64x2-3/32x26-49/64)					
	Packing dim.(WxHxD)	mm(in.)	1525x130x765(60-3/64x5-1/8x30-1/8)					
	Net/gross weight	kg(lbs.)	10.5/15(23/33)					
Piping connections	Liquid/gas pipe	mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)				Φ9.53/Φ15.9(Φ3/8/Φ5/8)	
	Drain pipe	mm(in.)	Φ32(OD 1-17/64)					
Standard controller		Wireless remote controller						

Notes:

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

Compact Four-way Cassette

- 360° airflow allows for even, wide-range cooling and heating
- Drain pump with 500mm pump head fitted as standard

Standard wireless remote controller



RM05



50Hz specification

Model			MDV-D15Q4/N1-A3	MDV-D22Q4/N1-A3	MDV-D28Q4/N1-A3
Power supply			1-phase,220-240V,50Hz		
Capacity	Cooling	kW	1.5	2.2	2.8
	Heating	kW	1.7	2.4	3.2
Power input	Cooling	W	36	50	50
	Heating	W	36	50	50
Airflow rate(H/M/L)		m ³ /h	435/283/208	414/313/238	414/313/238
Sound pressure level(H/M/L)		dB(A)	35/33/23	36/33/23	36/33/23
Main body	Net dim.(WxHxD)	mm	570x260x570	570x260x570	570x260x570
	Packing dim.(WxHxD)	mm	675x285x675	675x285x675	675x285x675
	Net/gross weight	kg	16/19.5	16/20	16/20
Panel	Net dim.(WxHxD)	mm	647x50x647	647x50x647	647x50x647
	Packing dim.(WxHxD)	mm	715x123x715	715x123x715	715x123x715
	Net/gross weight	kg	2.5/4.5	2.5/4.5	2.5/4.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller		

Model			MDV-D36Q4/N1-A3	MDV-D45Q4/N1-A3
Power supply			1-phase,220-240V,50Hz	
Capacity	Cooling	kW	3.6	4.5
	Heating	kW	4.0	5.0
Power input	Cooling	W	56	56
	Heating	W	56	56
Airflow rate(H/M/L)		m ³ /h	521/409/314	521/409/314
Sound pressure level(H/M/L)		dB(A)	42/36/29	42/36/29
Main body	Net dim.(WxHxD)	mm	570x260x570	570x260x570
	Packing dim.(WxHxD)	mm	675x285x675	675x285x675
	Net/gross weight	kg	18/22	18/22
Panel	Net dim.(WxHxD)	mm	647x50x647	647x50x647
	Packing dim.(WxHxD)	mm	715x123x715	715x123x715
	Net/gross weight	kg	2.5/4.5	2.5/4.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ25	OD Φ25
Standard controller			Wireless remote controller	

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: 7.5m(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: 7.5m(horizontal).
3. Sound level is measured at 1.4m below the unit.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

60Hz specification

Model			MDV-D22Q4/VN1-A3	MDV-D28Q4/VN1-A3
Power supply			1-phase,208-230V,60Hz	
Cooling capacity	kW		2.2	2.8
	Btu/h		7500	9600
Heating capacity	kW		2.4	3.2
	Btu/h		8200	10900
Power input	Cooling	W	50	50
	Heating	W	50	50
Airflow rate(H/M/L)		m ³ /h	397/292/215	408/310/231
		CFM	234/172/127	240/182/136
Sound pressure level(H/M/L)		dB(A)	35.8/33.4/23.4	35.8/33.4/23.4
Main body	Net dim.(WxHxD)	mm(in.)	570x260x570(22-7/16x10-15/64x22-7/16)	
	Packing dim.(WxHxD)	mm(in.)	675x285x675(26-9/16x11-7/32x26-9/16)	
	Net/gross weight	kg(lbs.)	16/20(35.3/44.1)	
Panel	Net dim.(WxHxD)	mm(in.)	647x50x647(25-15/32x1-31/32x25-15/2)	
	Packing dim.(WxHxD)	mm(in.)	715x123x715(28-5/32x4-27/32x28-5/32)	
	Net/gross weight	kg(lbs.)	2.5/4.5(5.5/9.9)	
Piping connections	Liquid/gas pipe	mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)	
	Drain pipe	mm(in.)	Φ25(OD 63/64)	
Standard controller			Wireless remote controller	

Model			MDV-D36Q4/VN1-A3	MDV-D45Q4/VN1-A3
Power supply			1-phase,208-230V,60Hz	
Cooling capacity	kW		3.6	4.5
	Btu/h		12300	15400
Heating capacity	kW		4.0	5.0
	Btu/h		13600	17100
Power input	Cooling	W	60	60
	Heating	W	60	60
Airflow rate(H/M/L)		m ³ /h	496/359/263	496/359/263
		CFM	292/211/155	292/211/155
Sound pressure level(H/M/L)		dB(A)	41.5/35.6/28.8	41.5/35.6/28.8
Main body	Net dim.(WxHxD)	mm(in.)	570x260x570(22-7/16x10-15/64x22-7/16)	
	Packing dim.(WxHxD)	mm(in.)	675x285x675(26-9/16x11-7/32x26-9/16)	
	Net/gross weight	kg(lbs.)	18/22(39.7/48.5)	
Panel	Net dim.(WxHxD)	mm(in.)	647x50x647(25-15/32x1-31/32x25-15/2)	
	Packing dim.(WxHxD)	mm(in.)	715x123x715(28-5/32x4-27/32x28-5/32)	
	Net/gross weight	kg(lbs.)	2.5/4.5(5.5/9.9)	
Piping connections	Liquid/gas pipe	mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)	
	Drain pipe	mm(in.)	Φ25(OD 63/64)	
Standard controller			Wireless remote controller	

Notes:

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

Four-way Cassette

- Fresh air intake
- Four-way airflow, allows wide-angle, equal distribution of cooling and heating
- Drain pump with 750mm pump head fitted as standard
- Optional brand-new, elegant panel



50Hz specification

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)	m ³ /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.(WxHxD)	mm	840x230x840	840x230x840	840x230x840	840x230x840	840x230x840
	Packing dim.(WxHxD)	mm	955x260x955	955x260x955	955x260x955	955x260x955	955x260x955
	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.(WxHxD)	mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Packing dim.(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
	Net/gross weight	kg	5.5/8.2	5.5/8.2	5.5/8.2	5.5/8.2	5.5/8.2
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						

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	16.0
Power input	Cooling	W	110	140	165	165	176
	Heating	W	110	140	165	165	176
Airflow rate(H/M/L)	m ³ /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.(WxHxD)	mm	840x230x840	840x300x840	840x300x840	840x300x840	840x300x840
	Packing dim.(WxHxD)	mm	955x260x955	955x330x955	955x330x955	955x330x955	955x330x955
	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.(WxHxD)	mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Packing dim.(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
	Net/gross weight	kg	5.5/8.2	5.5/8.2	5.5/8.2	5.5/8.2	5.5/8.2
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						

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: 7.5m(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: 7.5m(horizontal).
3. Sound level is measured at 1.4m below the unit.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

60Hz specification

Model	MDV-D28Q4/VN1-E	MDV-D36Q4/VN1-E	MDV-D45Q4/VN1-E	MDV-D56Q4/VN1-E	MDV-D71Q4/VN1-E	
Power supply	1-phase,208-230V,60Hz					
Cooling capacity	kW	2.8	3.6	4.5	5.6	7.1
	Btu/h	9600	12300	15400	19100	24200
Heating capacity	kW	3.2	4.0	5.0	6.3	8.0
	Btu/h	10900	13600	17100	21500	27300
Power input	Cooling	W	80	80	88	88
	Heating	W	80	80	88	88
Airflow rate(H/M/L)	m ³ /h	791/674/596	791/674/596	942/777/662	942/777/662	1235/1013/805
	CFM	465/396/351	465/396/351	554/457/389	554/457/389	726/596/474
Sound pressure level(H/M/L)	dB(A)	30/25/22	30/25/22	35/31/27	35/31/27	43/37/31
Main body	Net dim.(WxHxD)	mm(in.)	840x230x840(33-1/16x9-1/16x33-1/16)			
	Packing dim.(WxHxD)	mm(in.)	955x260x955(37-19/32x10-1/4x37-19/32)			
	Net/gross weight	kg(lbs.)	21.5/26.7(47.3/58.7)		23.7/28.9(52.1/63.6)	
Panel	Net dim.(WxHxD)	mm(in.)	950x54.5x950(37-13/32x2-9/64x37-13/32)			
	Packing dim.(WxHxD)	mm(in.)	1035x90x1035(40-3/4x3-9/16x40-3/4)			
	Net/gross weight	kg(lbs.)	5.5/8.2(12.1/18.1)			
Piping connections	Liquid/gas pipe	mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)		Φ9.53/Φ15.9(Φ3/8/Φ5/8)	
	Drain pipe	mm(in.)	Φ32(OD 1-17/64)			
Standard controller	Wireless remote controller					

Model	MDV-D80Q4/VN1-E	MDV-D90Q4/VN1-E	MDV-D100Q4/VN1-E	MDV-D112Q4/VN1-E	MDV-D140Q4/VN1-E	
Power supply	1-phase,208-230V,60Hz					
Cooling capacity	kW	8.0	9.0	10.0	11.2	14.0
	Btu/h	27300	30700	34100	38200	47800
Heating capacity	kW	9.0	10.0	11.1	12.5	15.0
	Btu/h	30700	34100	37900	42700	51200
Power input	Cooling	W	120	187	200	220
	Heating	W	120	187	200	200
Airflow rate(H/M/L)	m ³ /h	1235/1013/805	1333/1158/957	1634/1219/1139	1634/1219/1139	1692/1243/1157
	CFM	726/596/474	784/681/563	961/717/670	961/717/670	995/731/681
Sound pressure level(H/M/L)	dB(A)	43/37/31	43/38/32	45/37/35	45/37/35	46/38/37
Main body	Net dim.(WxHxD)	mm(in.)	840x230x840(33-1/16x9-1/16x33-1/16)	840x300x840(33-1/16x11-13/16x33-1/16)		
	Packing dim.(WxHxD)	mm(in.)	955x260x955(37-19/32x10-1/4x37-19/32)	955x330x955(37-19/32x11-13/16x37-19/32)		
	Net/gross weight	kg(lbs.)	23.7/28.9(52.1/63.6)	28.7/34.1(63.1/75)		30.9/36.3(68/79.9)
Panel	Net dim.(WxHxD)	mm(in.)	950x54.5x950(37-13/32x2-9/64x37-13/32)			
	Packing dim.(WxHxD)	mm(in.)	1035x90x1035(40-3/4x3-35/64x40-3/4)			
	Net/gross weight	kg(lbs.)	5.5/8.2(12.1/18.1)			
Piping connections	Liquid/gas pipe	mm(in.)	Φ9.53/Φ15.9(Φ3/8/Φ5/8)			
	Drain pipe	mm(in.)	Φ32(OD 1-17/64)			
Standard controller	Wireless remote controller					

Notes:

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

Medium Static Pressure Duct

- Fresh air intake
- Drain pump with 750mm pump head fitted as standard
- Flexible installation for the air inlet may be positioned either on the underside or the rear of the unit



50Hz specification

Model	MDV-D22T2/N1-DA5(A)	MDV-D28T2/N1-DA5(A)	MDV-D36T2/N1-DA5(A)	MDV-D45T2/N1-DA5(A)	MDV-D56T2/N1-DA5(A)		
Power supply	1-phase,220-240V,50Hz						
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating	kW	2.6	3.2	4	5	6.3
Power input	Cooling	W	57	57	61	98	103
	Heating	W	57	57	61	98	103
Airflow rate(H/M/L)	m ³ /h	550/397/309	550/397/309	605/442/351	800/573/479	800/573/479	
External static pressure(Min/Std/Max)	Pa	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30	
Sound pressure level(H/M/L)	dB(A)	32/24/21	31/24/21	35/28/24	36/29/26	36/29/26	
Net dimension(WxHxD)	mm	778x210x500	778x210x500	778x210x500	997x210x500	997x210x500	
Packing dimension(WxHxD)	mm	870x285x525	870x285x525	870x285x525	1115x285x525	1115x285x525	
Net/gross weight	k	18.5/22.2	18.5/22.2	18.5/22.2	22.9/26.8	22.9/26.8	
Piping connections	Liquid/gas pipe	mm	Φ6.4/Φ12.7	Φ6.4/Φ12.7	Φ6.4/Φ12.7	Φ6.4/Φ12.7	Φ9.5/Φ15.9
	Drain pipe	m	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller	Wired controller						

Model	MDV-D71T2/N1-DA5(A)	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	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)	m ³ /h	985/738/630	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)	36/30/27	45/40/37	45/40/37	48/42/38	48/43/39	
Net dimension(WxHxD)	mm	1218x210x500	1230x270x775	1230x270x775	1230x370x77	1290x300x865	
Packing dimension(WxHxD)	mm	1335x285x525	1355x350x795	1355x350x795	1355x350x795	1400x375x925	
Net/gross weight	kg	28/33	38/46.5	40/48	40/48	49/58	
Piping connections	Liquid/gas pipe	mm	Φ9.5/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						

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: 7.5m(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: 7.5m(horizontal).
 3. Sound level is measured at 1.4m below the air outlet.
- External static pressure is based on high speed indoor air flow.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

60Hz specification

Model	MDV-D22T2/VN1-DA5	MDV-D28T2/VN1-DA5	MDV-D36T2/VN1-DA5	MDV-D45T2/VN1-DA5	MDV-D56T2/VN1-DA5		
Power supply	1-phase,208-230V,60Hz						
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	
	Btu/h	7500	9600	12300	15400	19100	
Heating capacity	kW	2.6	3.2	4.0	5.0	6.3	
	Btu/h	8200	10900	13600	17100	21500	
Power input	Cooling	W	66	72	77	100	100
	Heating	W	66	72	77	100	100
Airflow rate(H/M/L)	m ³ /h	538/456/375	538/456/375	597/514/429	811/684/575	811/684/575	
	CFM	317/268/221	317/268/221	351/303/253	477/403/338	477/403/338	
External static pressure(Min/Std/Max)	Pa	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30	
Sound pressure level(H/M/L)	dB(A)	36/35/32	36/35/32	38.6/37.5/33.8	39/37.9/34	39/37.9/34	
Net dimension(WxHxD)	mm(in.)	30-45/64x8-17/64x19-11/16(780x210x500)			39-3/8x8-17/64x19-11/16(1000x210x500)		
Packing dimension(WxHxD)	mm(in.)	870x285x525(34-1/4x11-7/32x20-43/64)			1115x285x525(43-57/64x11-7/32x20-43/64)		
Net/gross weight	kg(lbs.)	17.5/20(38.6/44.1)			22.5/26(49.6/57.3)		
Piping connections	Liquid/gas pipe	mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)			Φ9.53/Φ15.9(Φ3/8/Φ5/8)	
	Drain piping	mm(in.)	Φ25(OD 63/64)				
Standard controller	Wired controller						

Model	MDV-D71T2/VN1-DA5	MDV-D80T2/VN1-BA5	MDV-D90T2/VN1-BA5	MDV-D112T2/VN1-BA5	MDV-D140T2/VN1-BA5		
Power supply	1-phase,208-230V,60Hz						
Cooling capacity	kW	7.1	8.0	9.0	11.2	14.0	
	Btu/h	24200	27300	30700	38200	47800	
Heating capacity	kW	8.0	9.0	10.0	12.5	15.5	
	Btu/h	27300	30700	34100	42700	52900	
Power input	Cooling	W	125	133	134	378	352
	Heating	W	125	133	134	378	352
Airflow rate(H/M/L)	m ³ /h	1029/934/781	1345/1165/1013	1345/1165/1013	1800/1556/1400	1905/1636/1400	
	CFM	606/550/460	792/686/596	792/686/596	1059/916/824	1121/963/824	
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	
Net dimension(WxHxD)	mm(in.)	48-1/32x8-17/64x19-11/16 (1220x210x500)	48-27/64x10-5/8x30-33/64(1230x270x775)			50-25/32(1290x300x865)	
Packing dimension(WxHxD)	mm(in.)	1335x285x525(52-9/16x 11-7/32x20-43/64)	1355x350x795(53-11/32x13-25/31x31-19/64)			1400x375x925(55-1/8x14- 49/64x36-27/64)	
Net/gross weight	kg(lbs.)	28/31.5(61.8/69.5)	38/46.5(84/102.5)	40/48(88.2/105.8)		49/58(108.0/127.9)	
Piping connections	Liquid/gas pipe	mm(in.)	Φ9.53/Φ15.9(Φ3/8/Φ5/8)				
	Drain piping	mm(in.)	Φ25(OD 63/64)				
Standard controller	Wired controller						

Notes:

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

High Static Pressure Duct

- External static pressure up to 280Pa facilitates extensive duct and grille network
- A double-skin drainage pan provides double protection for ceilings (models 71 to 160)
- Water pump box is available as a customization option

Standard wired
controller
KJR-29B



50Hz 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)	m ³ /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	48/46/45	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	
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	
Standard controller	Wired controller							

Model	MDV-D200T1/N1-B	MDV-D250T1/N1-B	MDV-D280T1/N1-B	MDV-D400T1/N1	MDV-D450T1/N1	MDV-D560T1/N1		
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)	m ³ /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(WxHxD)	mm	1440x505x925	1440x505x925	1440x505x925	1970x668x902.5	1970x668x902.5	1970x668x902.5	
Packing dimension(WxHxD)	mm	1509x550x990	1509x550x990	1509x550x990	2095x800x964	2095x800x964	2095x800x964	
Net/gross weight	kg	115/129	115/129	115/129	232/245	232/245	235/250	
Piping connections	Liquid/gas pipe	mm	Φ9.53x2/Φ15.9x2	Φ9.53x2/Φ15.9x2	Φ9.53x2/Φ15.9x2	Φ9.53x2/Φ22.2x2	Φ9.53x2/Φ22.2x2	
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32	
Standard controller	Wired controller							

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: 7.5m(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: 7.5m(horizontal).
3. Sound level is measured at 1.4m below the air outlet.
- External static pressure is based on high speed indoor air flow.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

60Hz specification

Model	MDV-D71T1/VN1-B	MDV-D80T1/VN1-B	MDV-D90T1/VN1-B	MDV-D112T1/VN1-B	MDV-D140T1/VN1-B	MDV-D160T1/VN1-B		
Power supply	1-phase,208-230V,60Hz							
Cooling capacity	kW	7.1	8	9	11.2	14	15	
	Btu/h	24200	27300	30700	38200	47800	51200	
Heating capacity	kW	8	9	10	12.5	16	16.5	
	Btu/h	27300	30700	34100	42700	54600	56300	
Power input	Cooling	W	414	402	409	409	527	532
	Heating	W	414	402	409	409	527	532
Airflow rate(H/M/L)	m ³ /h	1720/1532/1338	1690/1560/1320	2252/2030/1610	2198/1978/1570	2969/2694/2469	2969/2694/2469	
	CFM	1012/902/788	994/918/777	1326/1195/948	1294/1164/924	1746/1586/1453	1746/1586/1453	
External static pressure(Min/Std/Max)	Pa	25/25/196	37/37/196	37/37/196	50/50/196	50/50/196	50/50/196	
Sound pressure level(H/M/L)	dB(A)	48/46/45	48/46/45	52/49/47	52/49/47	53/50/48	54/52/50	
Net dimension(WxHxD)	mm(in.)	952x420x690(37-31/64x16-17/32x27-11/64)				1300x420x690(51-3/16x15-3/4x27-5/32)		
Packing dimension(WxHxD)	mm(in.)	1090x440x768(42-29/32x17-21/64x30-15/64)				1436x450x768(56-17/32x17-23/32x30-15/64)		
Net/gross weight	kg(lbs.)	46.5/52(102.6/114.7)			50/56.5(110.3/124.6)		68/70(149.9/154.3) 69.5/76(153.3/167.6)	
Piping connections	Liquid/gas pipe	mm(in.)				Φ9.53/Φ15.9(Φ3/8/Φ5/8)		
	Drain piping	mm(in.)				Φ25(OD 63/64)		
Standard controller	Wired controller							

Model	MDV-D200T1/N1-B	MDV-D250T1/N1-B	MDV-D280T1/N1-B	MDV-D400T1/N1	MDV-D450T1/N1		
Power supply	1-phase,208-230V,60Hz						
Cooling capacity	kW	20.0	25.0	28.0	40.0	45.0	
	Btu/h	68200	85300	95500	136500	153500	
Heating capacity	kW	22.5	26.0	31.5	45.0	50.0	
	Btu/h	76800	88700	107500	153500	170600	
Power input	Cooling	W	1516	1516	1516	1600	1600
	Heating	W	1516	1516	1516	1600	1600
Airflow rate(H/M/L)	m ³ /h	4700/4100/3599	4700/4100/3599	4700/4100/3599	7180/6150/4600	7180/6150/4600	
	CFM	2766/2413/2118	2766/2413/2118	2766/2413/2118	4226/3620/2708	4226/3620/2708	
External static pressure(Min/Std/Max)	Pa	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	
Net dimension(WxHxD)	mm(in.)	1440x505x925(56-11/16x19-7/8x36-27/6)			1970x668x902.5(77-9/16x15-3/4x35-17/32)		
Packing dimension(WxHxD)	mm(in.)	1509x550x990(59-13/32x21-21/32x38-31/32)			2095x800x964(82-31/64x31-1/2x37-61/64)		
Net/gross weight	kg(lbs.)	115/129(254/284)			235/250(518/551)		
Piping connections	Liquid/gas pipe	mm(in.)			Φ9.53/Φ15.9x2/(Φ3/8/Φ5/8)x2		
	Drain piping	mm(in.)			Φ32(OD 1-17/64)		
Standard controller	Wired controller						

Notes:

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

Fresh Air Processing Unit

- 100% fresh air processing unit, both fresh air filtration and heating/cooling can be achieved in a single system
- External static pressure up to 280Pa facilitates extensive duct and grille network
- Water pump box is available as a customization option



50Hz specification

Model	MDV-D125T1/N1-FA		MDV-D140T1/N1-FA		MDV-D200T1/N1-FA	
Power supply	1-phase,220-240V,50Hz					
Capacity	Cooling	kW	12.5	14.0	20.0	
	Heating	kW	10.5	12.0	18.0	
Power input	Cooling	W	455	455	1060x2	
	Heating	W	455	455	1060x2	
Airflow rate(H/M/L)	m ³ /h		2142/1870/1611	2142/1870/1611	2870/2620/2150	
External static pressure(Min/Std/Max)	Pa		30/50/196	30/50/196	50/200/280	
Sound pressure level(H/M/L)	dB(A)		54/52/50	54/52/50	54/53/51	
Net dimension(WxHxD)	mm		1300x420x690	1300x420x690	1440x505x925	
Packing dimension(WxHxD)	mm		1436x450x768	1436x450x768	1509x550x990	
Net/gross weight	kg		69.5/76	69.5/76	115/125	
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ32	
Operation temperature range	°C		Heating: -5~16; Fan only: 16~20; Cooling: 20~43			
Standard controller			Wired controller			

Model	MDV-D250T1/N1-FA		MDV-D280T1/N1-FA	
Power supply	1-phase,220-240V,50Hz			
Capacity	Cooling	kW	25.0	28.0
	Heating	kW	20.0	22.0
Power input	Cooling	W	1126x2	1126x2
	Heating	W	1126x2	1126x2
Airflow rate(H/M/L)	m ³ /h		3005/2700/2250	3005/2700/2250
External static pressure(Min/Std/Max)	Pa		50/200/280	50/200/280
Sound pressure level(H/M/L)	dB(A)		55/54/52	55/54/52
Net dimension(WxHxD)	mm		1440x505x925	1440x505x925
Packing dimension(WxHxD)	mm		1509x550x990	1509x550x990
Net/gross weight	kg		115/125	115/125
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32
Operation temperature range	°C		Heating: -5~16; Fan only: 16~20; Cooling: 20~43	
Standard controller			Wired controller	

Notes:

1. Nominal cooling capacities are based on the following conditions: outdoor air temperature: 33°CDB, 28°CWB, equivalent ref. piping: 7.5m(horizontal).
2. Nominal heating capacities are based on the following conditions: outdoor air temperature: 0°CDB, -2.9°CWB, equivalent ref. piping: 7.5m(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.

4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

60Hz specification

Model	MDV-D125T1/VN1-FA		MDV-D140T1/VN1-FA		MDV-D200T1/VN1-FA	
Power supply	1-phase,208-230V,60Hz					
Cooling capacity	kW		12.5	14.0	20.0	
	Btu/h		42600	47800	68200	
Heating capacity	kW		10.5	12.0	18.0	
	Btu/h		36000	41000	61400	
Power input	Cooling	W	455	455	1060x2	
	Heating	W	455	455	1060x2	
Airflow rate(H/M/L)	m ³ /h		2142/1870/1611	2142/1870/1611	2870/2620/2150	
	CFM		1261/1101/948	1261/1101/948	1689/1542/1265	
External static pressure(Min/Std/Max)	Pa		30/50/196	30/50/196	50/200/280	
Sound pressure level(H/M/L)	dB(A)		54/52/50	54/52/50	54/53/51	
Net dimension(WxHxD)	mm(in.)		1300x420x690(51-3/16x16-17/32x27-11/64)			1440x505x925(56-11/16x19-7/8x36-27/6)
Packing dimension(WxHxD)	mm(in.)		1436x450x768(56-17/32x17-23/32x30-1/4)			1509x550x990(59-13/32x21-21/32x38-31/32)
Net/gross weight	kg(lbs.)		69.5/76(153.2/167.5)			114/124(251/274)
Piping connections	Liquid/gas pipe	mm(in.)	Φ9.53/Φ15.9/(Φ3/8/Φ5/8)			
	Drain piping	mm(in.)	Φ25(OD 63/64)			Φ32(OD 1-17/64)
Standard controller			Wired controller			

Model	MDV-D250T1/VN1-FA		MDV-D280T1/VN1-FA	
Power supply	1-phase,208-230V,60Hz			
Cooling capacity	kW		25.0	28.0
	Btu/h		85300	95500
Heating capacity	kW		20.0	22.0
	Btu/h		68200	75000
Power input	Cooling	W	1126x2	1126x2
	Heating	W	1126x2	1126x2
Airflow rate(H/M/L)	m ³ /h		3005/2700/2250	3005/2700/2250
	CFM		1766/1589/1324	1766/1589/1324
External static pressure(Min/Std/Max)	Pa		50/200/280	50/200/280
Sound pressure level(H/M/L)	dB(A)		55/54/52	55/54/52
Net dimension(WxHxD)	mm(in.)		1440x505x925(56-11/16x19-7/8x36-27/6)	
Packing dimension(WxHxD)	mm(in.)		1509x550x990(59-13/32x21-21/32x38-31/32)	
Net/gross weight	kg(lbs.)		114/124(251/274)	
Piping connections	Liquid/gas pipe	mm(in.)	Φ9.53/Φ15.9/(Φ3/8/Φ5/8)	
	Drain piping	mm(in.)	Φ32(OD 1-17/64)	
Standard controller			Wired controller	

Notes:

1. Nominal cooling capacities are based on the following conditions: outdoor air temperature: 33°C(91.4°F)DB, 28°C(82.4°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
2. Nominal heating capacities are based on the following conditions: outdoor air temperature: 0°C(32°F)DB, -2.9°C(26.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
3. Sound Level is measured 1.4m(4.59ft.) below the unit.

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

Connection Conditions:

The following restrictions must be observed in order to maintain the indoor units connection to the same system.

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

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

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

* The fresh air processing unit is not available for V4+R system & 8~26kW side discharge outdoor units.

4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Wall Mounted Unit

- Three interchangeable panels allow units to blend easily with any interior decoration, perfect for rooms with no false ceilings or free floor space
- Refrigerant pipe direction can be left, right or rear as the installation situation requires

Standard wireless remote controller



RM05



50/60Hz specification

Model			MI-22G/DHN1-M	MI-28G/DHN1-M	MI-36G/DHN1-M	MI-45G/DHN1-M
Power supply			1-phase,220-240V,50/60Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.4	3.2	4	5
Power input	Cooling	W	8	9	19	19
	Heating	W	8	9	19	19
Airflow rate (H/M/L)	m ³ /h		422/393/356	417/370/316	656/573/488	594/507/424
Sound pressure level (H/M/L)	dB(A)		31/30/29	31/30/29	33/32/30	35/33/31
Net dimension (WxHxD)	mm		835x280x203	835x280x203	990x315x223	990x315x223
Packing dimension (WxHxD)	mm		935x385x320	935x385x320	1085x420x335	1085x420x335
Net/ Gross weight	kg		8.4/12.1	9.5/13.1	11.4/15.5	12.8/16.9
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ16.5			
Standard controller			Wireless remote controller			

Model			MI-56G/DHN1-M	MI-71G/DHN1-M	MI-80G/DHN1-M	MI-90G/DHN1-M
Power supply			1-phase,220-240V,50/60Hz			
Capacity	Cooling	kW	5.6	7.1	8	9
	Heating	kW	6.3	8	9	10
Power input	Cooling	W	27	49	53	82
	Heating	W	27	49	53	82
Airflow rate (H/M/L)	m ³ /h		747/648/547	1195/1005/809	1195/1005/809	1421/1067/867
Sound pressure level (H/M/L)	dB(A)		38/36/34	44/39/36	44/39/36	48/43/38
Dimension (WxHxD)	mm		990x315x223	1194x343x262	1194x343x262	1194x343x262
Packing (WxHxD)	mm		1085x420x335	1290x375x460	1290x375x460	1290x375x460
Net/ Gross weight	kg		12.8/16.9	17/22.4	17/22.4	17/22.4
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ16.5			
Standard controller			Wireless remote controller			

Notes:

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

Console

- Combination of four air inlets and two air outlets ensures that cooling and heating are distributed in all directions.

Standard wireless remote controller



RM05



50/60Hz specification

Model			MDV-D22Z/DN1-B	MDV-D28Z/DN1-B
Power supply			1-phase,220-240V,50Hz	
Capacity	Cooling	kW	2.2	2.8
	Heating	kW	2.6	3.2
Power input	Cooling	W	20	25
	Heating	W	20	25
Airflow rate(H/M/L)	m ³ /h		430/345/229	510/430/229
Sound pressure level(H/M/L)	dB(A)		38/32/26	39/33/27
Net dimension(WxHxD)	mm		700x600x210	700x600x210
Packing dimension(WxHxD)	mm		810x710x305	810x710x305
Net/gross weight	kg		14/19	15/20
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ16	OD Φ16
Standard controller			Wireless remote controller	

Model			MDV-D36Z/DN1-B	MDV-D45Z/DN1-B
Power supply			1-phase,220-240V,50Hz	
Capacity	Cooling	kW	3.6	4.5
	Heating	kW	4.0	5.0
Power input	Cooling	W	25	45
	Heating	W	25	45
Airflow rate(H/M/L)	m ³ /h		510/430/229	660/512/400
Sound pressure level(H/M/L)	dB(A)		39/33/27	42/39/36
Net dimension(WxHxD)	mm		700x600x210	700x600x210
Packing dimension(WxHxD)	mm		810x710x305	810x710x305
Net/gross weight	kg		15/20	15/20
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ16	OD Φ16
Standard controller			Wireless remote controller	

Notes:

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

Ceiling / Floor

- Can be installed either on the ceiling or floor

Standard wireless
remote controller

RM05



50Hz 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	1200/900/700
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				

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	2300/2100/1800
Sound pressure level(H/M/L)		dB(A)	45/43/40	47/45/42	47/45/42	49/47/44
Net dimension(WxHxD)		mm	1280x203x660	1670x244x680	1670x244x680	1670x285x680
Packing dimension(WxHxD)		mm	1379x296x744	1764x329x760	1764x329x760	1775x377x760
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			

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: 7.5m(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: 7.5m(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.

60Hz specification

Model			MDV-D36DL/N1-C	MDV-D45DL/N1-C	MDV-D56DL/N1-C	MDV-D71DL/N1-C
Power supply			1-phase, 220-240V, 60Hz			
Cooling capacity	kW		3.6	4.5	5.6	7.1
	Btu/h		12300	15400	19100	24200
Heating capacity	kW		4.0	5.0	6.3	8.0
	Btu/h		13600	17100	21500	27300
Power input	Cooling	W	50	148	148	148
	Heating	W	50	148	148	148
Airflow rate(H/M/L)		m ³ /h	600/480/400	750/650/550	750/650/550	750/650/550
		CFM	353/283/235	441/383/324	441/383/324	441/383/324
Sound pressure level(H/M/L)		dB(A)	40/38/36	43/41/38	43/41/38	43/41/38
Net dimension(WxHxD)		mm(in.)	990x203x660(38-31/32x7-63/64x25-63/64)			
Packing dimension(WxHxD)		mm(in.)	1089x296x744(42-7/8x11-21/32x29-9/32)			
Net/gross weight		kg(lbs.)	26/32(57.3/70.6)	28/34(61.7/75.0)	28/34(61.7/75.0)	28/34(61.7/75.0)
Piping connections	Liquid/gas pipe	mm(in.)	Φ6.35/Φ12.7(Φ1/4/Φ1/2)		Φ9.53/Φ15.9(Φ3/8/Φ5/8)	
	Drain piping	mm(in.)	Φ25(OD 63/64)			
Standard controller			Wireless remote controller			

Model			MDV-D80DL/N1-C	MDV-D90DL/N1-C	MDV-D112DL/N1-C	MDV-D140DL/N1-C	MDV-D160DL/N1-C
Power supply			1-phase, 220-240V, 60Hz				
Cooling capacity	kW		8.0	9.0	11.2	14.0	16.0
	Btu/h		27300	30700	38200	47800	54600
Heating capacity	kW		9.0	10.0	12.5	15.0	18.0
	Btu/h		30700	34100	42700	51200	61400
Power input	Cooling	W	183	183	245	245	378
	Heating	W	183	183	245	245	378
Airflow rate(H/M/L)		m ³ /h	1200/900/700	1200/900/700	1980/1860/1730	1980/1860/1730	2300/2100/1800
		CFM	706/530/412	706/530/412	1165/1095/1018	1165/1095/1018	1354/1236/1060
Sound pressure level(H/M/L)		dB(A)	45/43/40	45/43/40	47/45/42	47/45/42	49/47/44
Net dimension(WxHxD)		mm(in.)	1280x203x660(50-25/64x7-63/64x25-63/64)		1670x244x680(65-3/4x9-39/64x26-49/64)		1670x285x680(65-3/4x11-7/32x26-49/64)
Packing dimension(WxHxD)		mm(in.)	1379x296x744(54-19/64x11-21/32x29-19/64)		1764x329x760(69-29/64x12-61/64x29-59/64)		1775x377x760(69-7/8x14-27/32x29-59/64)
Net/gross weight		kg(lbs.)	34.5/41(76.1/90.4)		54/59(119.0/130.1)		57.5/63.5(126.5/139.7)
Piping connections	Liquid/gas pipe	mm(in.)	Φ9.53/Φ15.9(Φ3/8/Φ5/8)				
	Drain piping	mm(in.)	Φ25(OD 63/64)				
Standard controller			Wireless remote controller				

Notes:

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

Floor Standing Unit (Concealed)

- Designed to be concealed in walls with only the suction and discharge grills visible

Standard wireless remote controller



RM05



50Hz specification

Model			MDV-D22Z/N1-F3B	MDV-D28Z/N1-F3B	MDV-D36Z/N1-F3B	MDV-D45Z/N1-F3B
Power supply			1-phase,220-240V,50Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.4	3.2	4.0	5.0
Power input	Cooling	W	40	46	46	49
	Heating	W	40	46	46	49
Airflow rate(H/M/L)		m ³ /h	530/456/400	569/485/421	624/522/375	660/542/440
Sound pressure level(H/M/L)		dB(A)	36/33/29	36/33/29	37/34/30	37/34/30
Net dimension(WxHxD)		mm	840x545x212	840x545x212	1040x545x212	1040x545x212
Packing dimension(WxHxD)		mm	939x639x305	939x639x305	1139x639x305	1139x639x305
Net/gross weight		kg	25/27	25/27	29.5/34	29.5/34
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 Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller			

Model			MDV-D56Z/N1-F3B	MDV-D71Z/N1-F3B	MDV-D80Z/N1-F3B
Power supply			1-phase,220-240V,50Hz		
Capacity	Cooling	kW	5.6	7.1	8.0
	Heating	kW	6.3	8.0	9.0
Power input	Cooling	W	88	130	130
	Heating	W	88	130	130
Airflow rate(H/M/L)		m ³ /h	1150/970/830	1380/1100/870	1380/1100/870
Sound pressure level(H/M/L)		dB(A)	41/35/31	44/39/33	44/39/33
Net dimension(WxHxD)		mm	1340x545x212	1340x545x212	1340x545x212
Packing dimension(WxHxD)		mm	1425x639x305	1425x639x305	1425x639x305
Net/gross weight		kg	33/39	33/39	36/40
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller		

Notes:

- Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent ref. piping: 7.5m(horizontal).
- Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 7.5m(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.

Floor Standing Unit (Exposed)

- The F4 (front air intake) and F5 (underside air intake) offer a choice of air intake options

Standard wireless remote controller



RM05

F4 (front air intake)



F5 (underside air intake)



50Hz specification

Model			MDV-D22Z/N1-F4	MDV-D28Z/N1-F4	MDV-D36Z/N1-F4	MDV-D45Z/N1-F4
			MDV-D22Z/N1-F5	MDV-D28Z/N1-F5	MDV-D36Z/N1-F5	MDV-D45Z/N1-F5
Power supply			1-phase,220-240V,50Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.4	3.2	4.0	5.0
Power input	Cooling	W	40	46	46	49
	Heating	W	40	46	46	49
Airflow rate(H/M/L)		m ³ /h	530/456/400	569/485/421	624/522/375	660/542/440
Sound pressure level(H/M/L)	F4	dB(A)	36/33/29	36/33/29	37/34/30	37/34/30
	F5	dB(A)	36/33/29	36/33/29	37/34/30	37/34/30
Net dimension(WxHxD)	F4	mm	1000x596x225	1000x596x225	1200x596x225	1200x596x225
	F5	mm	1000x677x220	1000x677x220	1200x677x220	1200x677x220
Packing dimension(WxHxD)	F4	mm	1089x683x312	1089x683x312	1289x683x312	1289x683x312
	F5	mm	1182x683x312	1182x683x312	1382x683x312	1382x683x312
Net/gross weight	F4	kg	30/35	30/35	36/44	36/44
	F5	kg	30/38	30/38	35.5/41	35.5/41
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 Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller			

Model			MDV-D56Z/N1-F4	MDV-D71Z/N1-F4	MDV-D80Z/N1-F4
			MDV-D56Z/N1-F5	MDV-D71Z/N1-F5	MDV-D80Z/N1-F5
Power supply			1-phase,220-240V,50Hz		
Capacity	Cooling	kW	5.6	7.1	8.0
	Heating	kW	6.3	8.0	9.0
Power input	Cooling	W	88	130	130
	Heating	W	88	130	130
Airflow rate(H/M/L)		m ³ /h	1150/970/830	1380/1100/870	1380/1100/870
Sound pressure level(H/M/L)	F4	dB(A)	41/35/31	44/39/33	44/39/33
	F5	dB(A)	41/35/31	44/39/33	44/39/33
Net dimension(WxHxD)	F4	mm	1500x596x225	1500x596x225	1500x596x225
	F5	mm	1500x677x220	1500x677x220	1500x677x220
Packing dimension(WxHxD)	F4	mm	1589x683x312	1589x683x312	1589x683x312
	F5	mm	1682x683x312	1682x683x312	1682x683x312
Net/gross weight	F4	kg	41/46.5	41/46.5	42.5/48.5
	F5	kg	42/51	42/51	44/53
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller		

Notes:

- Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent ref. piping: 7.5m(horizontal).
- Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 7.5m(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 SOLUTIONS

Wireless Remote Controllers

Wired Controllers

Centralized Controllers

Data Converter























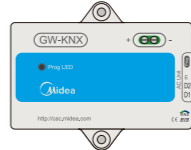


Network Control System

BMS Gateways

Accessories





















CONTROLLER LINEUP for V6/V6i/V4+I(10-12HP)

Wireless Remote Controllers	Wired Remote Controllers	Centralized Controllers Data converter		Network Control System	BMS Gateways	Accessories	
 <p>RM05B RM12D</p> <p>2nd Gen. IDU</p>	 <p>WDC-86E/KD WDC-120G/WK</p> <p>2nd Gen. IDU</p>	 <p>CCM-180A/BWS</p>		 <p>IMMP-BAC</p>	 <p>IMMP-BAC</p>	 <p>MD-NIM05/E</p> <p>2nd Gen. IDU</p>	 <p>MD-NIM05B/E</p> <p>1st Gen. IDU</p>
 <p>RM02 RM05 RM12A</p> <p>1st Gen. IDU</p>	 <p>KJR-86C KJR-29B</p> <p>1st Gen. IDU</p>	 <p>CCM-270B/WS</p>		<p>+</p>  <p>IMMP-S</p>	 <p>GW-LON</p>	 <p>MD-NIM09</p> <p>2nd Gen. IDU</p>	 <p>MD-NIM09E</p> <p>1st Gen. IDU</p>
	 <p>KJR-120B KJR-120C</p> <p>1st Gen. IDU</p>	 <p>CCM-15</p>		 <p>CCM-270B/WS</p>	 <p>GW-MOD</p>	 <p>MCAC-DIAG-B</p>	 <p>KJR-150A</p> <p>1st Gen. IDU</p>
				<p>+</p>  <p>IMMP-S</p>	<p>1st Gen. IDU</p>  <p>MD-KNX</p> <p>2nd Gen. IDU</p>  <p>GW-KNX</p>	 <p>MA-EK</p>	<p>2nd Gen. IDU</p>  <p>MCAC-PIDU</p>

Note:




















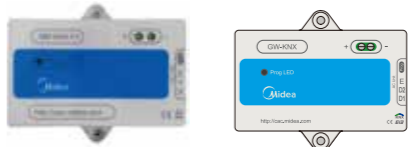
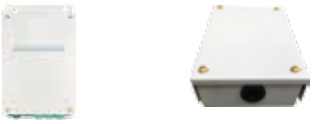
- 1. No comment of 1st generation AC/DC IDU or 2nd generation DC IDU on the superscript means all of the indoor series can be used.
- 2. The diagnose software is only compatible with V6/V6i outdoor unit.

CONTROLLER LINEUP for VC Pro

Wireless Remote	Wired Controller & Centralized Controller	Data Converter		Network Control System	BMS Gateways	Accessories
 <p>1st Gen. IDU</p> <p>RM05</p>	 <p>1st Gen. IDU</p> <p>KJR-29B</p>	 <p>CCM-15</p>		 <p>IMMP-BAC</p>	 <p>IMMP-BAC</p>	<p>2nd Gen. IDU 1st Gen. IDU</p> <p>Hotel Key Card Interface Module</p>  <p>MD-NIM05/E MD-NIM05B/E</p>
 <p>2nd Gen. IDU</p> <p>RM12D(C)</p>	 <p>2nd Gen. IDU</p> <p>WDC-86E/KD</p>		<p>+</p>  <p>IMMP-S</p>	 <p>GW-LON</p>	<p>2nd Gen. IDU 1st Gen. IDU</p> <p>Infrared Sensor Controller</p>  <p>MD-NIM09</p>	
	 <p>2nd Gen. IDU</p> <p>WDC-120G/WK</p>				 <p>GW-MOD</p>	<p>2nd Gen. IDU</p> <p>Indoor Unit Online Kit</p>  <p>MCAC-PIDU</p> <p>XYE Extension Kit</p>  <p>MA-EK</p>
	 <p>CCM30</p>				<p>1st Gen. IDU 2nd Gen. IDU</p>  <p>MD-KNX GW-KNX</p>	<p>1st Gen. IDU</p> <p>Indoor unit group controller</p>  <p>KJR-150A</p>

Note: No comment of 1st generation AC/DC IDU or 2nd generation DC IDU on the superscript means all of the indoor series can be used.

CONTROLLER LINEUP for V4+R/ V4+I (except for 10-12HP)/V4+W/Mini VRF

Wireless Remote Controllers	Wired Remote Controllers	Centralized Controllers		Network Control System Data Converter	BMS Gateways	Accessories
 <p>RM05B RM12D</p> <p>2nd Gen. IDU</p>	 <p>WDC-86E/KD WDC-120G/WK</p> <p>2nd Gen. IDU</p>	 <p>CCM-180A/BWS</p> <p>2nd Gen. IDU</p>		<p>M-interface Gateway</p> 	<p>BACnet Gateway</p>  <p>MD-CCM08</p>	<p>Hotel Key Card Interface Module</p>  <p>MD-NIM05/E MD-NIM05B/E</p> <p>2nd Gen. IDU 1st Gen. IDU</p>
 <p>RM02 RM05 RM12A</p> <p>1st Gen. IDU</p>	 <p>KJR-86C KJR-29B</p> <p>1st Gen. IDU</p>	 <p>CCM-270B/WS</p> <p>2nd Gen. IDU</p>	<p>+</p> <p>IMM Software</p> 	<p>LonWorks Gateway</p>  <p>LonGW64</p>	<p>LonWorks Gateway</p>  <p>LonGW64</p>	<p>Infrared Sensor Controller</p>  <p>MD-NIM09</p> <p>2nd Gen. IDU 1st Gen. IDU</p>
	 <p>KJR-120B KJR-120C</p> <p>1st Gen. IDU</p>	 <p>MD-CCM09</p>		 <p>CCM-15</p>	<p>Modbus Gateway</p>  <p>CCM-18A/N CCM-18A/N-U</p>	<p>Remote Alarm Controller (Special for V5X)</p> <p>Network Electricity Distribution Module (Special for Mini VRF)</p> <p>Indoor unit group controller</p>  <p>KJR-32B MD-NIM10 KJR-150A</p> <p>1st Gen. IDU</p>
		 <p>CCM30</p>			<p>1st Gen. IDU 2nd Gen. IDU</p>  <p>MD-KNX GW-KNX</p>	<p>2nd Gen. IDU</p> <p>XYE Extension Kit</p> <p>Indoor Unit Online Kit</p>  <p>MA-EK MCAC-PIDU</p>





Note:
 1. No comment of 1st generation AC/DC IDU or 2nd generation DC IDU on the superscript means all of the indoor series can be used.
 2. CCM-180A/BWS and CCM-270B/WS are only available for 2nd generation DC Indoor unit.





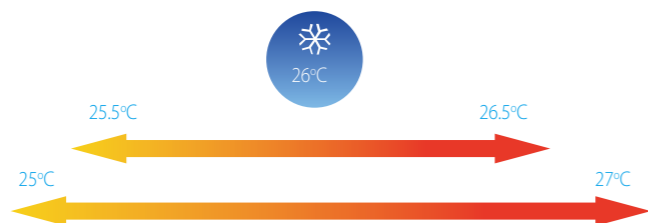
Wireless Remote Controllers

Features

Model	 RM05B	 RM12D RM12D(C)	 RM02	 RM05	 RM12A
On / Off	●	●	●	●	●
Mode selection	●	●	●	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)	● (1°C steps)	● (1°C steps)	● (1°C steps)
7-speed fan control	●	●	—	—	—
Auto swing	●	●	●	●	●
5-step swing louver	●	●	—	—	—
Address setting	●	●	●	●	●
Follow me	—	●	●	—	●
Eco mode	●	●	●	●	●
Night silent mode	●	●	—	—	●
Display shut-off	●	●	—	—	—
Daily timer	●	●	●	●	●
Keyboard lock	●	●	●	●	●
Background light	●	●	●	●	●
Dimensions (HxWxD) (mm)	150x65x20	170x48x20	150x65x15	150x65x20	170x48x20
Batteries	1.5V (LR03/AAA) x 2				
Indoor unit series	2 nd generation DC IDU			1 st generation AC/DC IDU	

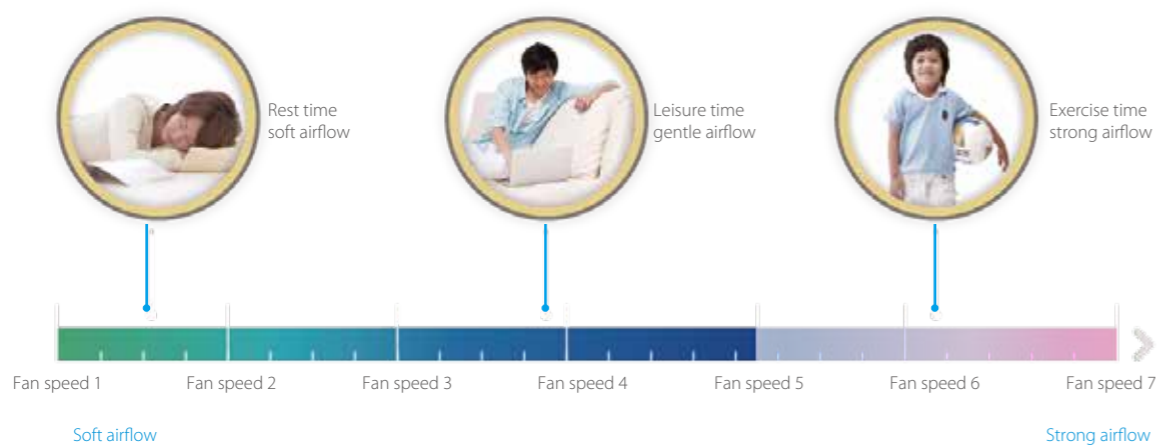
Temperature Setting

Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control.



7-Speed Fan Control

7 indoor fan speeds provide control flexibility to meet the needs of different indoor conditions.



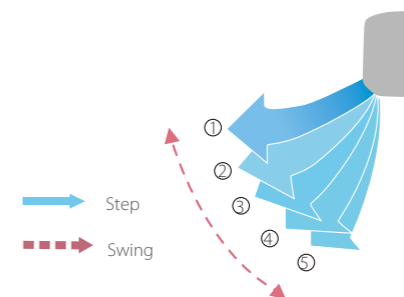
Display Shut-off

Indoor unit displays can be shut off at night, creating a better environment for rest.



5 Swing Angles for Louver

Thanks to the 5 swing angles for indoor unit louver, the air flow direction can be controlled more precisely.



Follow Me

With the follow me function, the indoor unit responds to the temperature measured by the temperature sensor built-in to the wireless remote controller, rather than the temperature sensor in the indoor unit itself, enabling more precise control of the temperature in the user's immediate environment.



Eco Mode


Eco mode saves energy whilst retaining a comfortable indoor environment.







Wired Controllers



Features

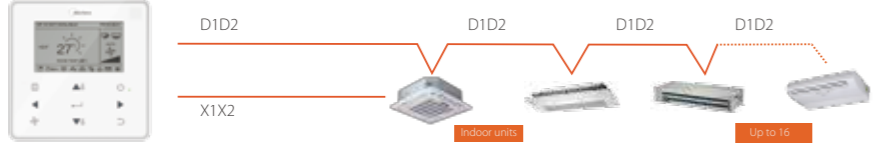
Model	 WDC-86E/KD	 WDC-120G/WK
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)
Dual temperature set points	●	●
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Address setting	●	●
Follow me	●	●
Eco mode	●	●
Room temperature display	●	●
°F/°C display	●	●
Keyboard lock	—	●
Background light	●	●
Daily timer	●	●
Weekly schedule timer	—	●
Auto restart	●	●
2 permission levels	—	●
Bi-directional communication	●	●
Group control	—	●
Main or secondary controller setting	●	●
Display shut-off	●	●
Night silent mode	●	●
Remote signal receiver	●	●
Clean filter reminder	●	●
Extension function	—	●
Daylight saving time	—	●
Clock display	—	●
Dot matrix display	—	●
Error check function	●	●
System parameter querying	●	●
System setting control	●	●
Dimensions (WxHxD) (mm)	86x86x18	120x120x20
Power supply	18V DC	18V DC
Indoor unit series	2 nd generation DC IDU	

Model	 KJR-86C	 KJR-29B
On / Off	●	●
Mode selection	●	●
Temperature setting	● (1°C steps)	● (1°C steps)
Dual temperature set points	—	—
7-speed fan control	—	—
Auto swing	—	●
5-step swing louver	—	—
Address setting	—	●
Follow me	—	●
Eco mode	●	—
Room temperature display	—	—
°F/°C display	—	—
Keyboard lock	—	●
Background light	—	●
Daily timer	—	●
Weekly schedule timer	—	—
Auto restart	●	●
2 permission levels	—	—
Bi-directional communication	—	—
Group control	—	—
Main or secondary controller setting	—	—
Display shut-off	—	—
Night silent mode	—	—
Remote signal receiver	—	●
Clean filter reminder	—	●
Extension function	—	—
Daylight saving time	—	—
Clock display	—	●
Dot matrix display	—	—
Error check function	—	—
System parameter querying	—	—
System setting control	—	—
Dimensions (WxHxD) (mm)	86x86x18	120x120x20
Power supply	5V DC	
Indoor unit series	1 st generation AC/DC IDU	

Model	 KJR-120B	 KJR-120C
On / Off	●	●
Mode selection	●	●
Temperature setting	● (1°C steps)	● (1°C steps)
Dual temperature set points	—	—
7-speed fan control	—	—
Auto swing	●	●
5-step swing louver	—	—
Address setting	—	—
Follow me	—	—
Eco mode	—	—
Room temperature display	—	—
°F/°C display	—	—
Keyboard lock	●	●
Background light	●	●
Daily timer	●	●
Weekly schedule timer	—	●
Auto restart	●	●
2 permission levels	—	—
Bi-directional communication	●	●
Group control	—	—
Main or secondary controller setting	—	—
Display shut-off	—	—
Night silent mode	●	—
Remote signal receiver	—	—
Clean filter reminder	●	—
Extension function	—	●
Daylight saving time	—	—
Clock display	●	●
Dot matrix display	—	—
Error check function	●	●
System parameter querying	—	—
System setting control	—	—
Dimensions (WxHxD) (mm)	120x120x20	120x120x20
Power supply	5V DC	12V DC
Indoor unit series	1 st generation AC/DC IDU	

Group Control

One controller can be used to unify the settings across up to 16 indoor units.



Main or Secondary Controller Setting

Two controllers can be used together with the indoor units' operating mode and settings being set according to the most recent instruction received. The controller display screens are synchronized so that both displays update when a setting is adjusted.



2 Permission Levels

2 permission levels ensure users can easily access control functions and allow administrators convenient access to operating parameters.



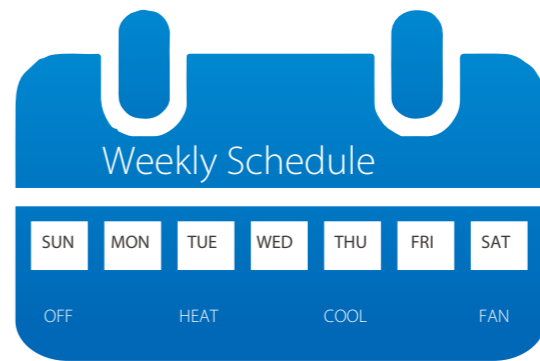
Extension Function

The extension function is specifically designed for users working overtime. Pressing the delay button postpones system shutdown by 1 or 2 hours.



Weekly Schedule Timer

The weekly schedule timer allows users to set multiple schedules each with its own operating mode, temperature settings and fan speeds.



Bi-directional Communication

The wired controller can query the system operating parameters thanks to the new bi-directional communication functionality. In addition, settings including static pressure, cold draft prevention and temperature compensation can be configured on the wired controller.







Note: This function is only available for V6/V6i/VC pro/V4+I(10-12HP) outdoor unit connected to 2nd generation DC indoor unit.

Centralized Controllers



Features

Function	 CCM-180A/BWS	 CCM-270B/WS	 CCM30	 CCM09
Max. number of indoor units	64	384	64	64
Max. number of refrigerant systems	8	48	8	8
Touch screen	● (6.2-inch)	● (10.1-inch)	—	—
On/Off	●	●	●	●
Mode selection	●	●	●	●
Temperature setting	● (0.5°C setps)*		● (1°C setps)	
7-speed fan control	7-speed fan control (HP VRF)*; 3-speed fan control (HR VRF)		3-speed fan control	
Auto swing	●	●	●	●
5-step swing louver*	●	●	—	—
Room temperature display	—	●	●	●
Holiday setting	●	●	—	—
°C/°F display	●	●	●	●
Schedule management	●	●	●	Weekly timer
Clock display	●	●	—	—
2 permission levels	●	●	—	—
Extension function	●	—	—	—
Indoor unit type/model recognition	● (HP VRF)*; — (HR VRF)		—	—
Indoor unit with capacity larger than 16kW recognition	● *		Identify as two or four units (depend on units model)	
Visual schematic	—	●	—	—
Energy management	●	●	Mode/Remote controller limit	
Group management	●	●	—	—
Error check function	● *	● *	●	●
System parameter querying	—	—	●	●
USB output	●	●	—	—
Report display	Error report	Error report and operation record	—	—
Operation log	—	●	—	—
LAN access	—	●	—	—
Language supported	English			
Dimensions (WxHxD) (mm)	182x123x34	270x183x27	179x119x74	179x119x74
Power supply	12V DC	24V AC	198-242V AC (50/60Hz)	
Outdoor unit series or indoor unit series	V6/V6i/V4+I(10-12HP) ODU or 2nd generation indoor unit		VC pro/V4+R/V4+I(except for 10-12HP)/V4+W/Mini VRF ODU	V4+R/V4+I(except for 10-12HP)/V4+W/Mini VRF ODU

Note: *means this function is only available for V6/V6i/VC pro/V4+I(10-12HP) outdoor unit connected to 2nd generation DC indoor unit.

Touch Screen

Colorful touch screen and vivid display make operation more convenient and simple.



Electricity Charge Distribution

The controllers use the patented Midea Calculation Method to estimate the electricity consumption of the outdoor units and then divide it among the indoor units so that the electricity charges can be equitably divided among building occupants.



Energy Management

User can set limits or locks on an indoor unit, such as minimum cooling temperature, maximum heating temperature, fan speed, operation mode, swing lock, remote controller lock and wired controller lock.



Visual Schematic

By importing floor plans and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.



Group Management

Units can be viewed according to group, system or location, making unit management clearer and more convenient.



Outdoor Unit Configuration

Outdoor unit configuration and settings can be monitored and controlled without having to go outdoors.



Note: This function is only available for V6/V6i/VC pro outdoor unit.

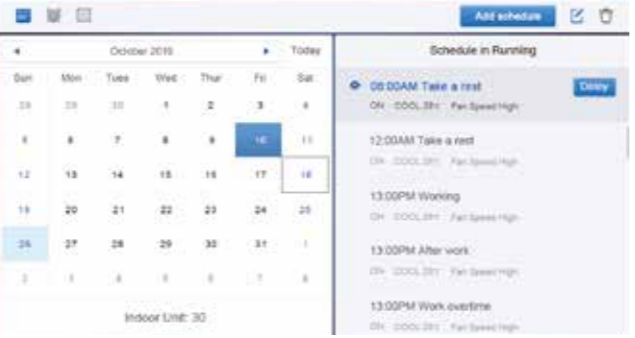
Unit Model Recognition

The controller recognizes the model of indoor and outdoor units and different models are represented by different icons.



Schedule Management

Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.



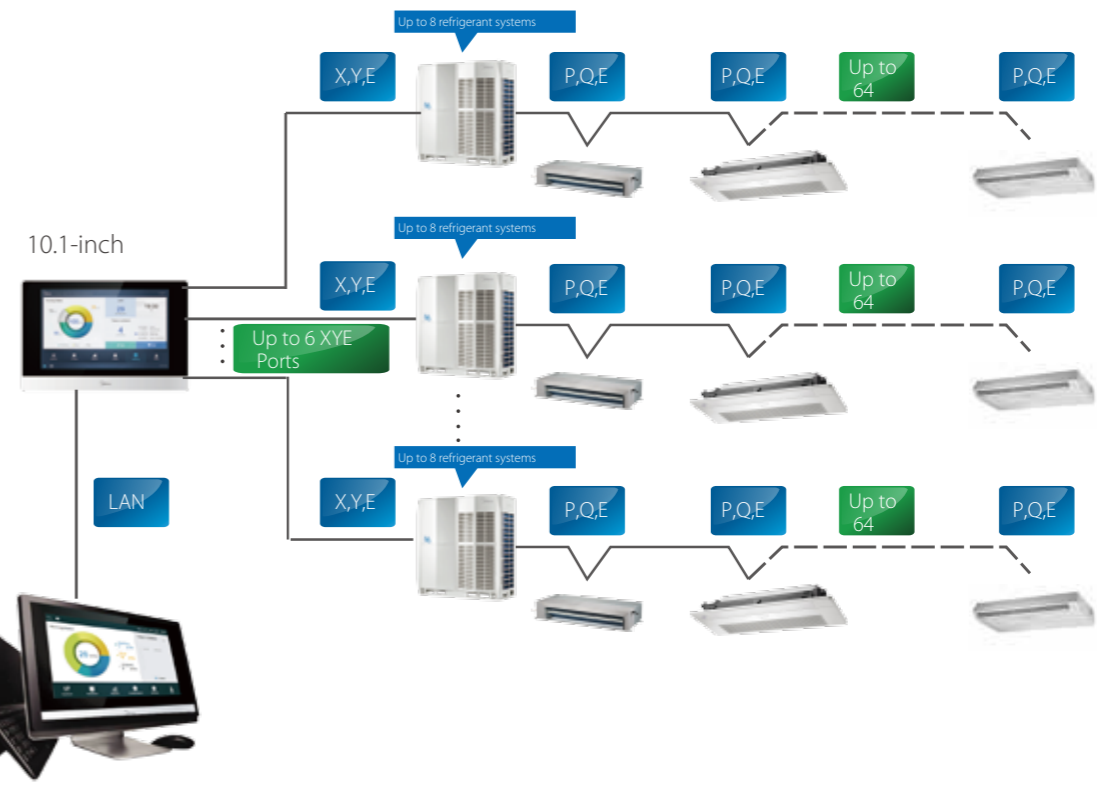
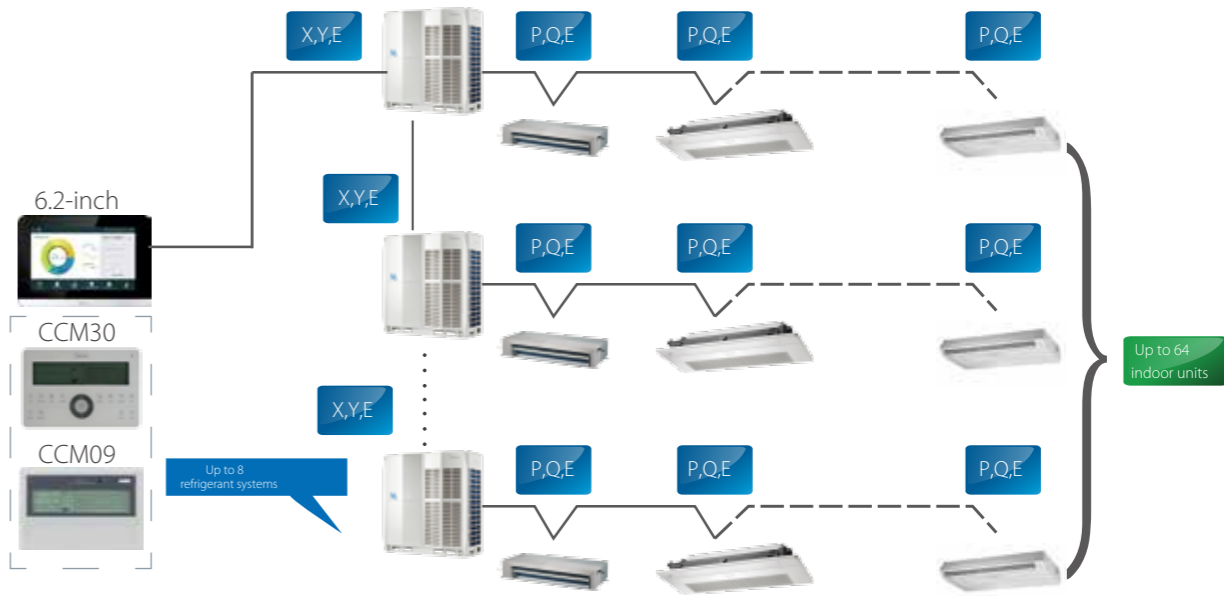
LAN Access

A desktop or laptop PC can be used for browser-based access via a LAN connection.



Wiring Flexibility




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



Data Converter

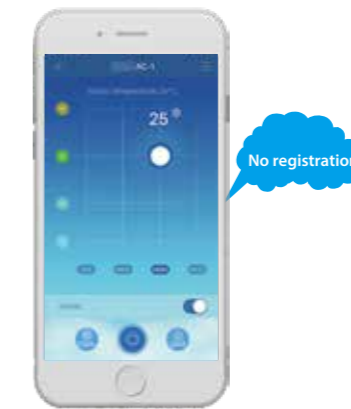


Features

Hardware model	 CCM-15	
Application scenarios	 Mobile Phone Application	 Cloud Server Website
Max. number of CCM-15 for one mobile APP	10	10
Max. number of indoor units	640	640
Max. number of refrigerant systems	80	80
On/Off	●	●
Mode selection	●	●
Temperature setting	● (1°C steps)	● (1°C steps)
7-speed fan control	—	—
Auto swing	●	●
5-step swing louver	—	—
Room temperature display	●	●
°C/°F display	●	●
Weekly timer	●	●
Indoor unit type recognition	—	—
Energy management	●	●
Group management	●	●
User group management	●	●
Operation log	●	●
Device log	●	●
Login record	●	●
Error log	—	●
Configuration	●	—
Account registration	●	—
Virtual	●	—
Mode display	●	●
Languages supported	English, French, Spanish	English, French, Spanish
Dimensions (WxHxD) (mm)	187x115x28	
Power supply	1 phase, 100-240V, 50/60Hz	
Outdoor unit series	All series	

Virtual Experience

After downloading "M-control", you can experience the operation of the interface through the virtual experience function without registration.



Easy Configuration

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



Convenient Operation

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



High Compatibility

Compatible with a variety of operating systems.



User Friendly Interface

Clear, stylish interface designed by leading industrial designers.



Cloud Server Website

In addition to "M-control", users can control air conditioners and query the status of air conditioning equipment anytime and anywhere through the cloud server website.



Anytime Control

Remote access to CCM-15 allows anytime, anywhere control.



Clear Icons

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



Group Management

The user can group the air conditioners equipment, and the air conditioner in the same group can be controlled together just with one tap.



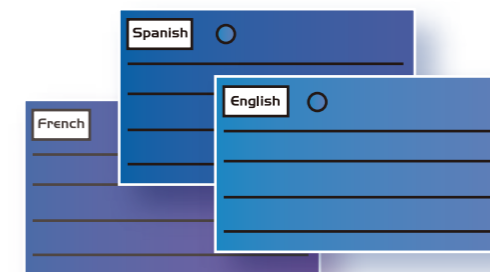
2 Permission Levels

Administrators can set different permissions for different users to facilitate better management of devices.



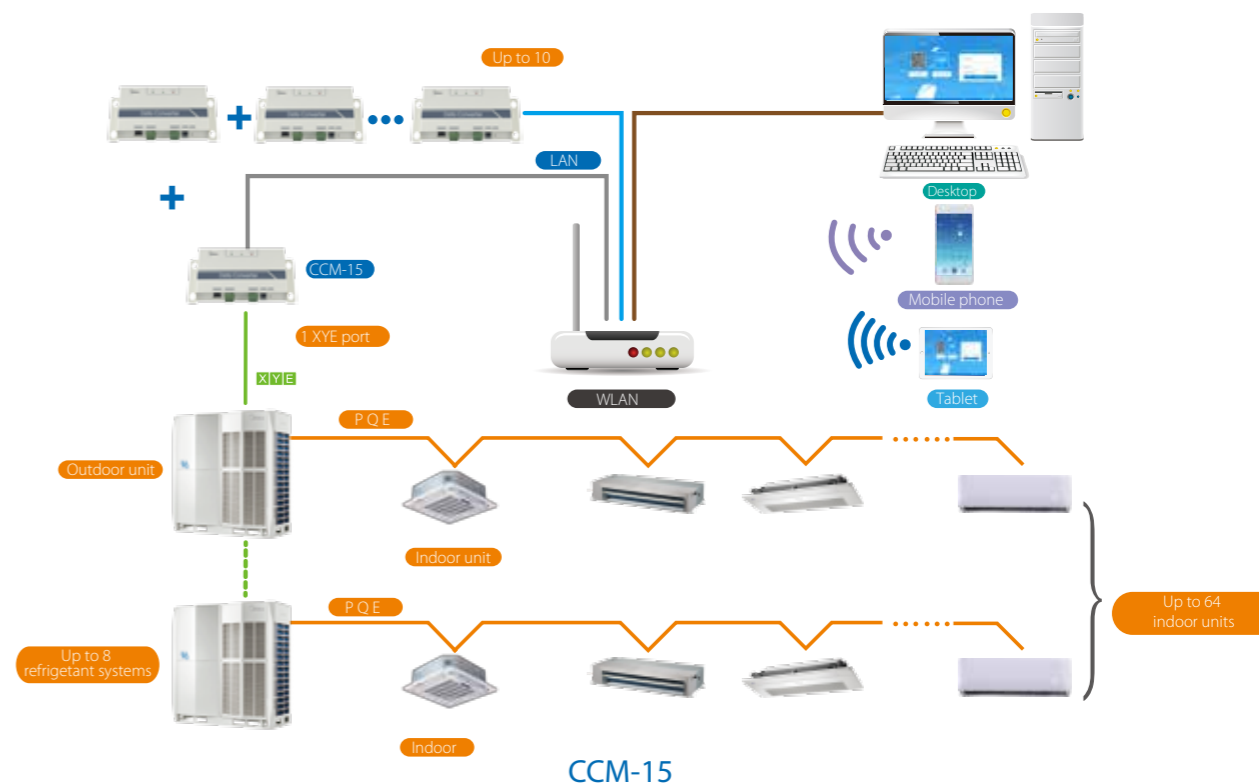
Multiple Language Options

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



Flexibility

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



Network Control System



Features

Software model	 IMMP-S		 IMM
Hardware model	 IMMP-BAC	 CCM-270B/WS	 M-interface
Max. number per software system	10	10	4
Max. number of indoor units	2560	3840	1024
Max. number of refrigerant systems	320	480	16
Temperature setting	● (0.5°C steps)	● (0.5°C steps)	● (1°C steps)
7-speed fan control*	●	●	— (3-speed)
Auto swing	●	●	●
5-step swing louver*	●	●	—
Outdoor unit Eco mode setting	●	●	—
Holiday setting	●	●	—
Schedule management	●	●	●
Clock display	●	●	●
2 permission levels	●	●	●
Unit model recognition	●	●	—
Electricity charge distribution	●	●	●
Visual schematic	●	●	●
Energy management	●	●	●
Group management	●	●	●
Error check function	●	●	●
System parameter querying	●	●	●
Report output	●	●	●
Operation log	●	●	●
LAN access	●	●	●
Languages supported	English	English	9 languages
Dimensions (WxHxD) (mm)	251x319x61	270x183x27	251x319x66
Power supply	1 phase, 100-240V, 50/60Hz	24V AC	1 phase, 100-240V, 50/60Hz
Outdoor unit series	V6/V6i/VC pro/V4+(10-12HP) ODU		V4+R/V4+(except for 10-12HP)/V4+W/Mini VRF ODU

Note: *means this function is only available for V6/V6i/VC pro/V4+(10-12HP) outdoor unit connected to 2nd generation DC indoor unit.

Public and Idle Devices

Marking a unit as a public device or idle device ensures the electricity charge distribution is more accurate and reasonable.



Visual Schematic

By importing floor plans and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.



Schedule Management

Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.



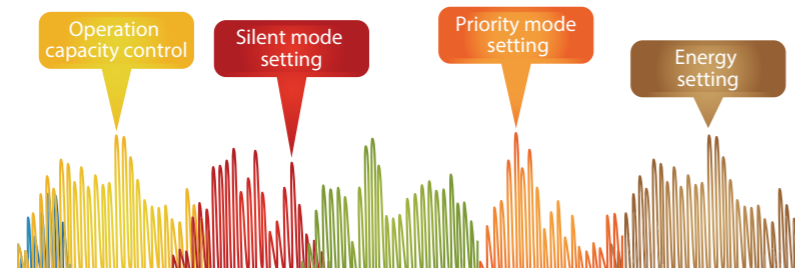
User-friendly Interface

Simple, practical user interface makes for a user-friendly experience even for first-time users.



Outdoor Unit Configuration

Outdoor unit configuration and settings can be monitored and controlled without having to go outdoors.



Note: This function is only available for V6/V6i/VC pro outdoor unit.

Electricity Charge Distribution

The IMMPRO uses the patented Midea Calculation Method to estimate the electricity consumption of the outdoor units and then divide it among the indoor units so that the electricity charges can be equitably divided among building occupants.

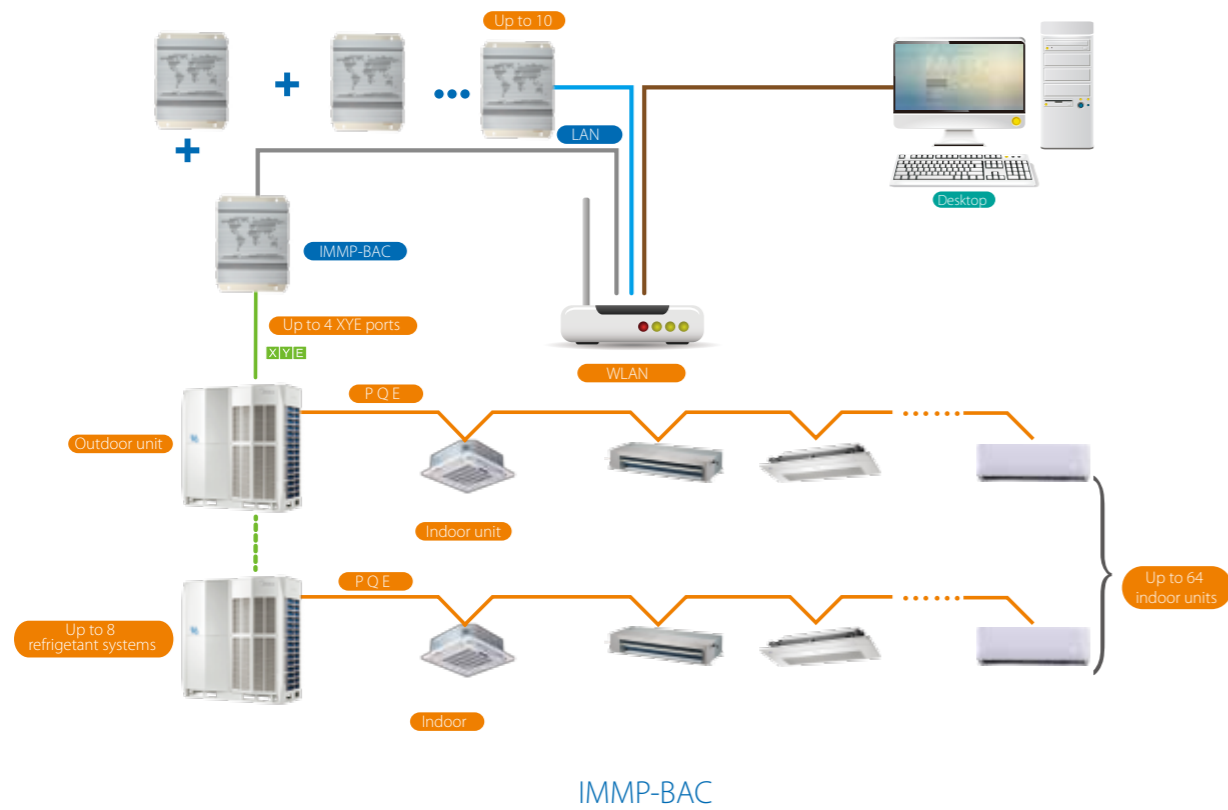


Xpress Installation

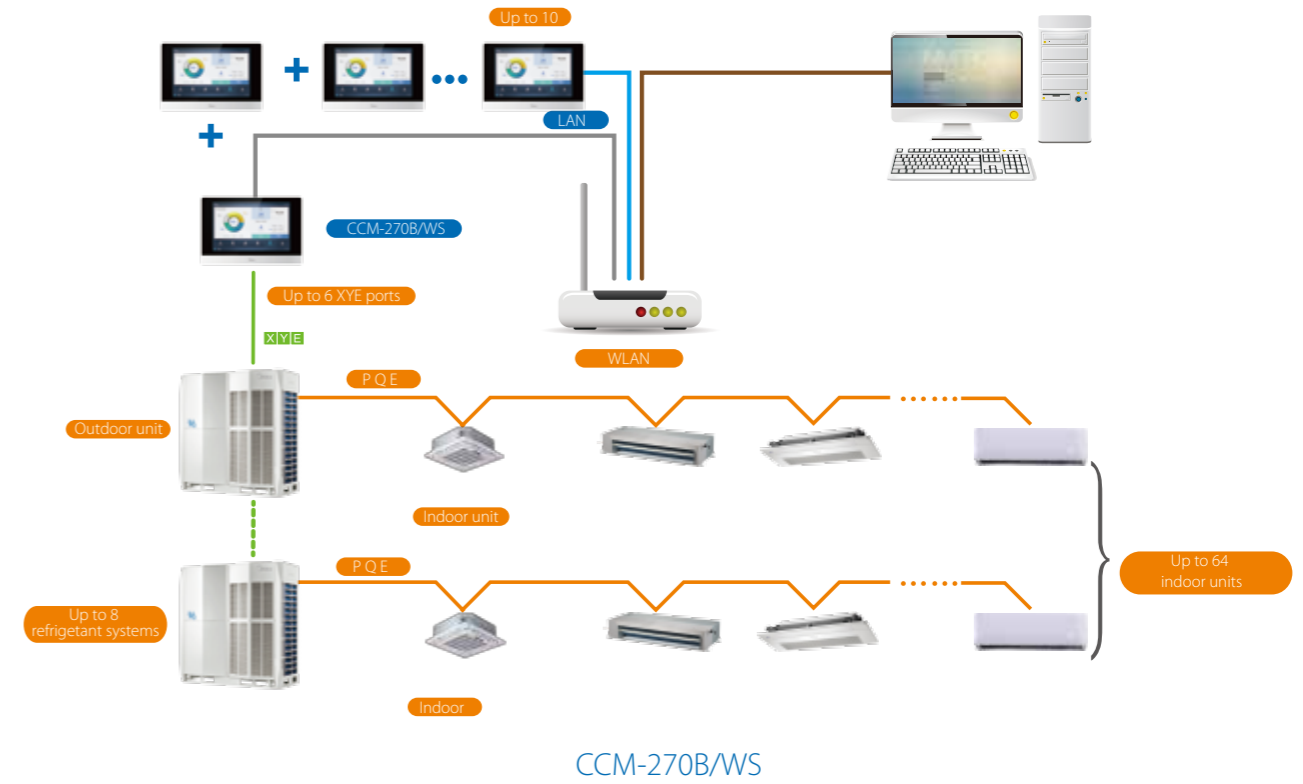
With the Xpress Installation wizard, IMMPRO can be installed quickly and easily without requiring support from a technical support engineer.



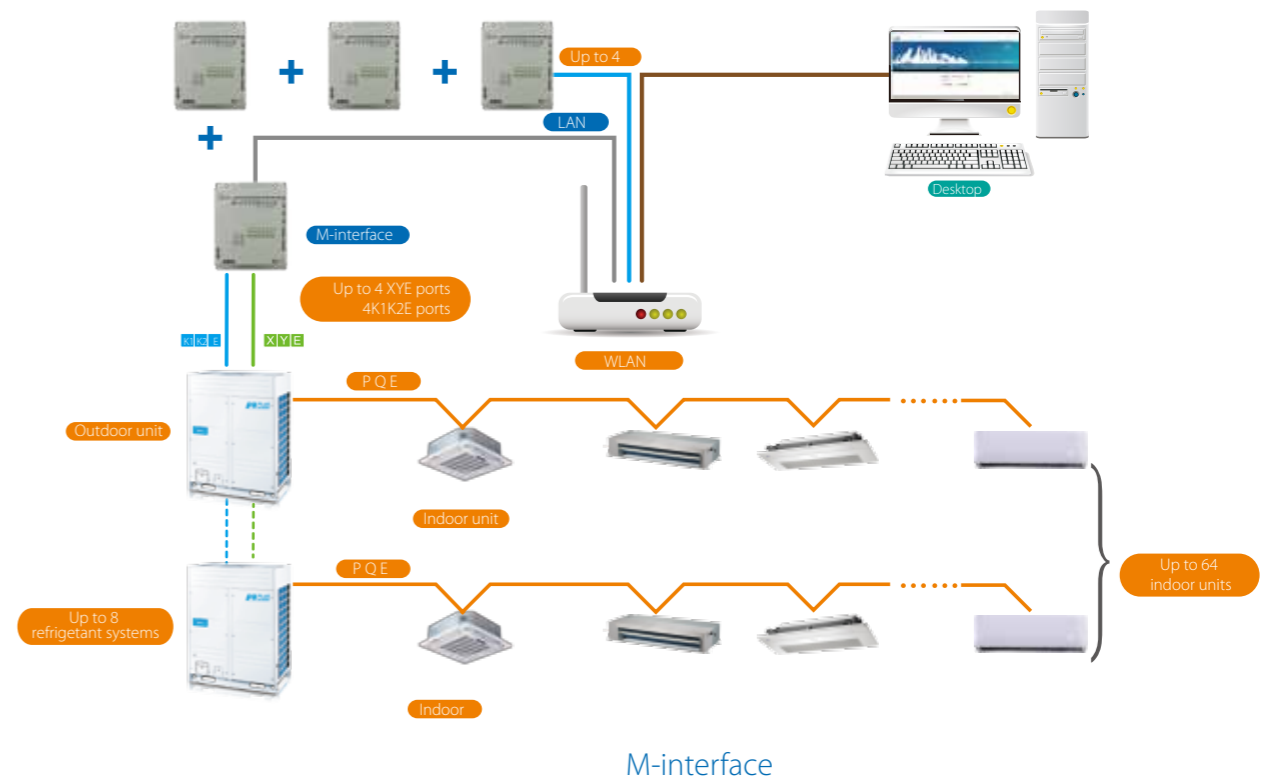
Network Flexibility



IMMP-BAC



CCM-270B/WS



M-interface



BMS Gateway

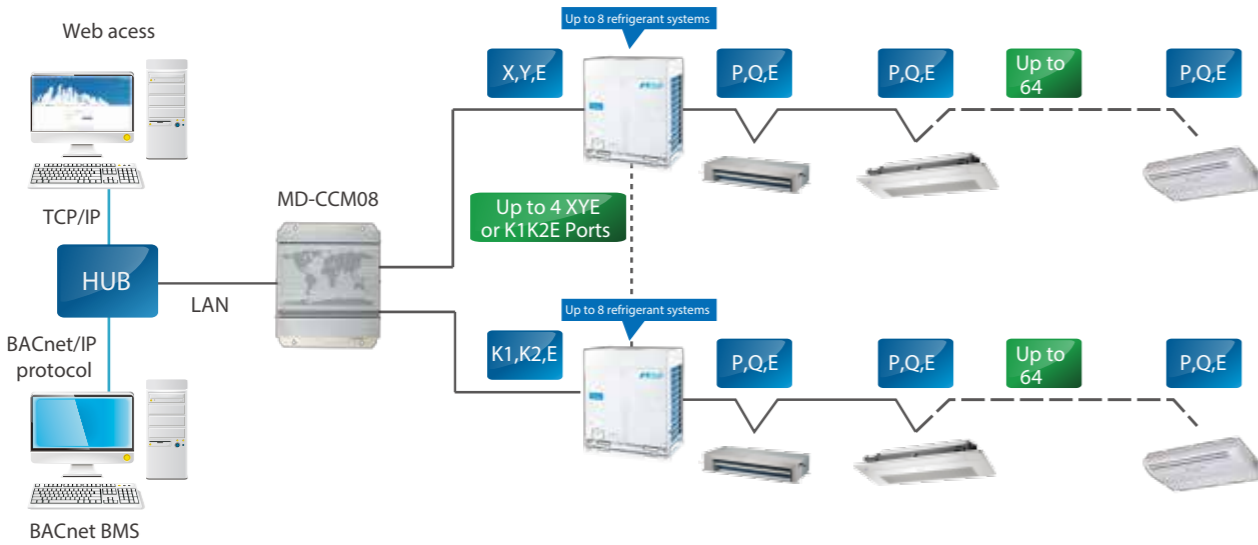
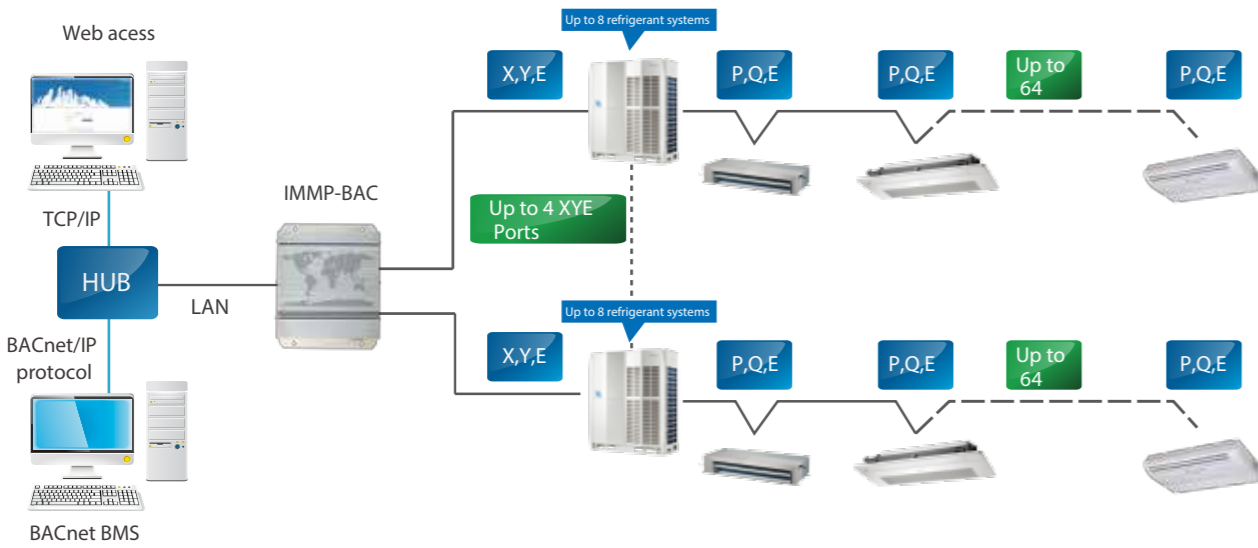
Monitoring and control of Midea's VRF air conditioners can be integrated into building management systems, enabling air conditioning to be monitored alongside lighting, power, fire, access and security systems. Midea's gateway devices provide full compatibility with the leading BMS protocols: BACnet, LonWorks, Modbus and KNX.

Full Integration

The Bacnet Gateway allows Midea VRF systems to be monitored and controlled alongside other building management technology that use the BACnet protocol such as access control, fire detection and lighting systems.

Network Flexibility

The gateway can be connected to master outdoor units' XYE or K1K2E ports directly.



Features

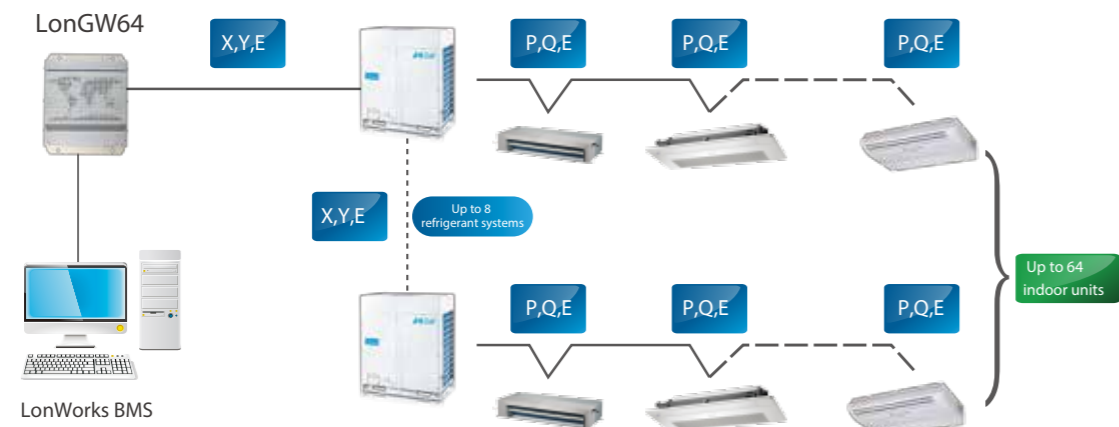
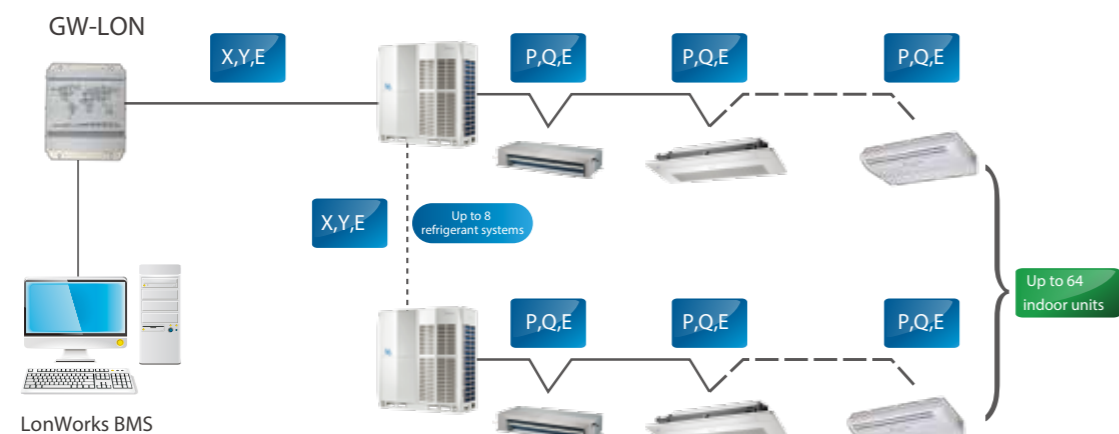
Model		IMMP-BAC	MD-CCM08
Max. number of devices (include indoor and outdoor units)		256	256
Max. number of refrigerant systems		32	32
Control	On / Off	●	●
	Mode selection	●	●
	Temperature setting	●	●
	Fan speed	●	●
	Energy management	●	● (Remote controller limit)
Indoor unit monitoring	Room temperature display	●	●
	Error status	●	●
	Error alarms	●	—
Outdoor unit monitoring	Operating mode	●	●
	Outdoor ambient temperature	●	●
	Fan speed	●	●
	Compressor operating frequency	●	—
	Discharge temperature	●	—
	System pressure	●	—
	Error status	●	●
	Error alarms	●	—
	LAN access	●	●
BTL certification	●	●	
Compatibility	Siemens	APOGEE	
	Trane	TRACER	
	Honeywell	ALERTON	
	Schneider	Andover Continuum	
	Johnson Controls	METASYS	
Dimensions (HxWxD)(mm)		319x251x61	
Power supply		1 phase, 100-240V, 50/60Hz	
Outdoor unit series		V6/V6i/VC pro/V4+I(10-12HP) ODU	V4+R/V4+I(except for 10-12HP)/V4+W/Mini VRF ODU

Full Integration



The LonWorks Gateway allows Midea VRF systems to be monitored and controlled alongside other building management technology on the LonWorks platform such as security, fire safety and lighting systems.

Network Flexibility

The gateway can be connected to master outdoor units' X,Y,E port directly.



Features

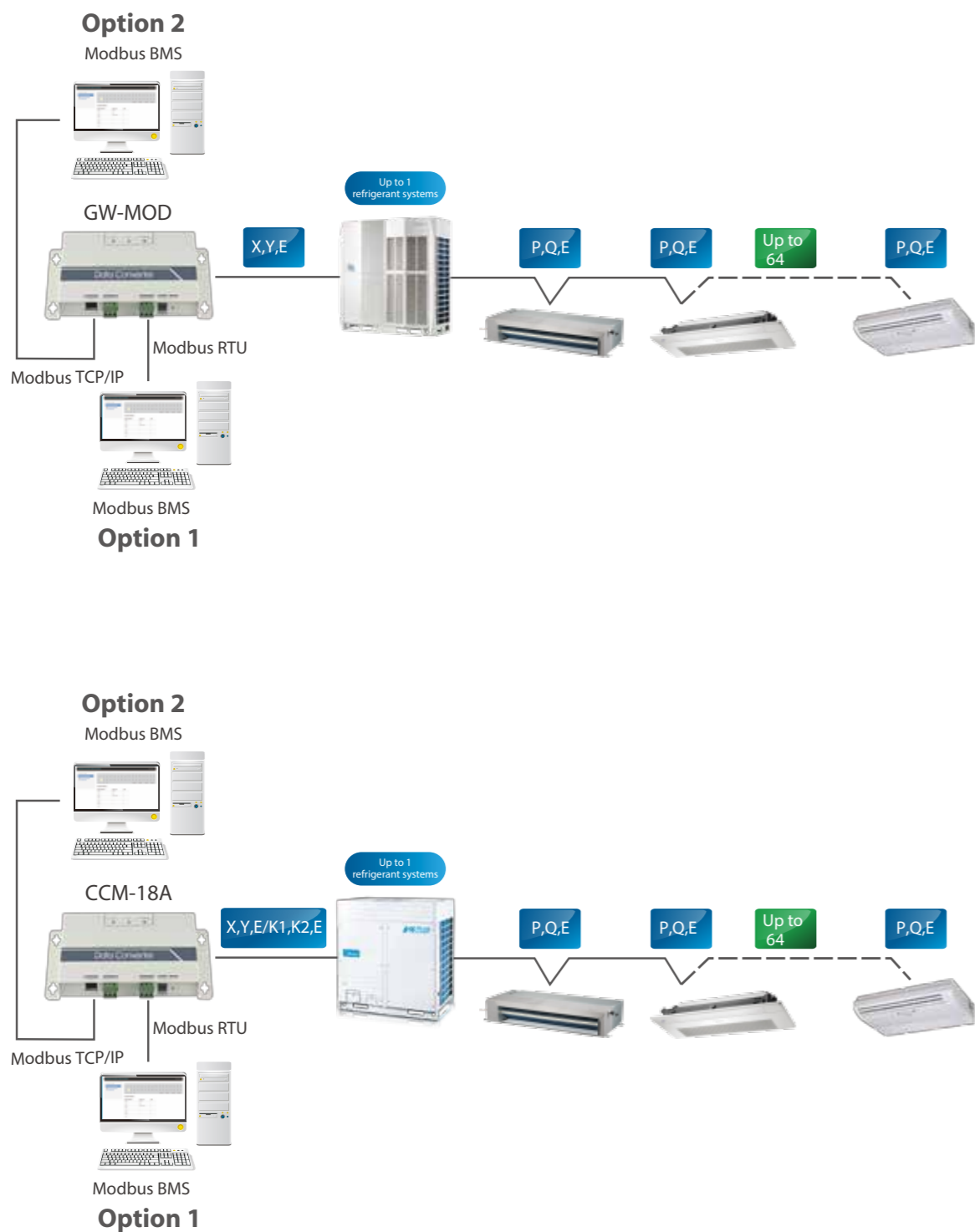
Model		 GW-LON	 LonGW64
Max. number of indoor units		64	64
Max. number of refrigerant systems		8	8
Control	Mode selection	●	●
	Temperature setting	●	●
	Fan speed	●	●
	Group shut down	●	●
	On / Off	●	●
Indoor unit monitoring	Operating mode	●	●
	Set temperature	●	●
	Fan speed	●	●
	Online status	●	●
	Operating status	●	●
	Room temperature	●	●
	Error status	●	●
Outdoor unit monitoring	Error status	●	—
Dimensions (HxWxD)(mm)		319×251×61	
Power supply		1 phase, 100-240V, 50/60Hz	
Outdoor unit series		V6/V6i/VC pro/V4+(10-12HP) ODU	V4+R/V4+I(except for 10-12HP)/V4+W/Mini VRF ODU

Full Integration

The Modbus Gateway enables seamless connection of Midea VRF systems with building management systems built on the Modbus communication protocol.

Network Flexibility

The gateway can be connected to master outdoor units' XYE or K1K2E ports directly.



Features

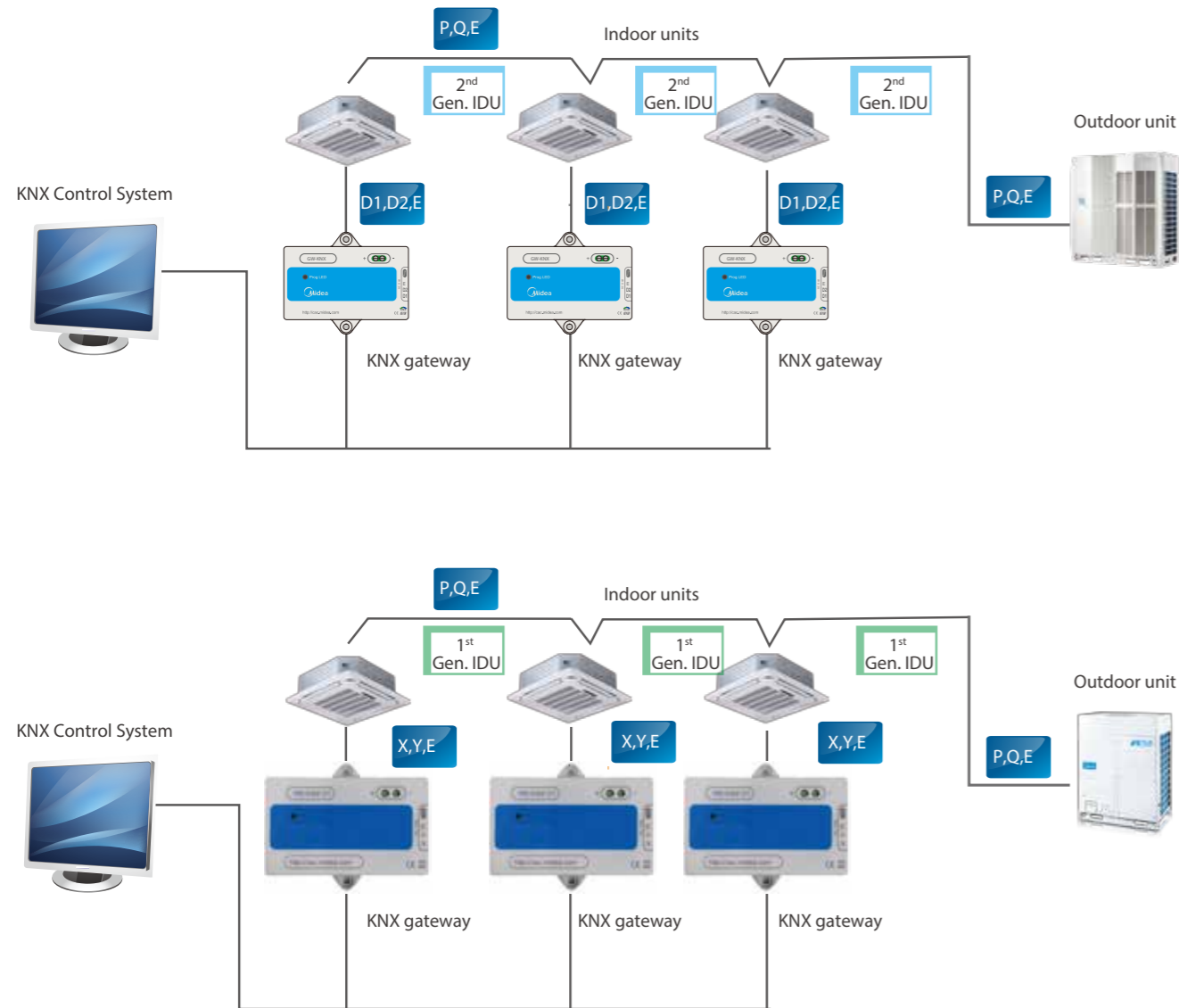
Model				
		GW-MOD	CCM-18A/N	CCM-18A/N-U
Max. number of indoor units		64	64	16
Max. number of refrigerant systems		1	1	1
Control	On / Off	●	●	●
	Mode selection	●	●	●
	Temperature setting	●	●	●
	Fan speed	●	●	●
	Group on/off	●	●	●
Indoor unit monitoring	Online status	●	●	●
	Room temperature	●	●	●
	Error status	●	●	●
	Operating mode	●	●	●
Outdoor unit monitoring	Operating mode	●	●	—
	Lock status	●	●	—
	Fan speed	●	●	—
	Set temperature	●	●	—
	Outdoor ambient temperature	●	●	—
	Error status	●	●	—
LAN access		●	●	●
Dimensions (HxWxD)(mm)		187×115×28		
Power supply		1 phase, 100-240V, 50/60Hz		
Outdoor unit series		V6/V6i/VC pro/V4+I(10-12HP) ODU	V4+R/V4+I(except for 10-12HP)/V4+W/Mini VRF ODU	

Full Integration

The KNX Gateway enables full integration of Midea VRF systems with home and building management systems built on the KNX network communications protocol. KNX is the only global standard for housing and building control, and has been adopted by 70% of Europe's smart home market.

Network Flexibility

The gateway can be connected to indoor units' XYE or D1D2E ports directly.



Features

Model			
		MD-KNX	GW-KNX
Max. number of indoor units		1	1
Control	On / Off	●	●
	Mode selection	●	●
	Temperature setting	● (1°C steps)	● (1°C steps)
	7-speed fan control	●	● (3-speed)
	Swing	●	●
Monitoring	On / Off	●	●
	Mode selection	●	●
	Temperature setting	●	●
	Fan speed	●	●
	Swing	●	●
	Room temperature	●	●
	Error alarm	●	●
	Dimensions (HxWxD)(mm)	85x51x16	85x51x16
Power supply	29VDC (KNX bus supply)	29VDC (KNX bus supply)	
Indoor unit series	1st generation AC/DC IDU	2nd generation DC IDU	



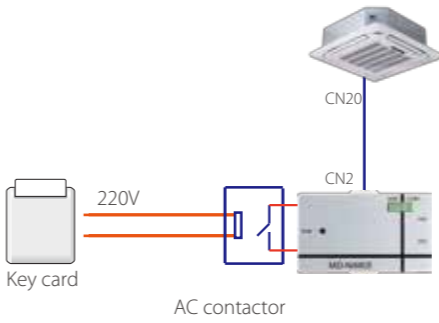
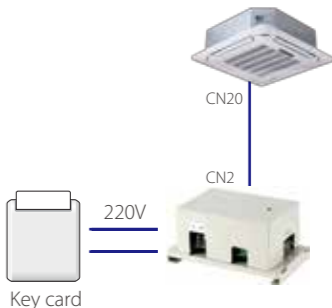


Hotel Key Card Interface Modules

Full Integration

The Hotel Key Card Interface Modules enable power supply to indoor units to be integrated with hotel key card power supply management systems, which are designed to save energy by only running appliances whilst guests are present in their room.

Features

Model	MD-NIM05/E	MD-NIM05B/E
Appearance		
Network flexibility		
Auto restart	●	●
Compatibility	Remote and wired controller	Remote and wired controller
Dimensions (HxWxD) (mm)	15.5x86x72.8	87x150x70
Power supply	5V DC (Supplied by indoor unit)	1 phase, 100-240V, 50/60Hz
Indoor unit series	all series	

Note : The Hotel Key Card Interface Modules only compatible while using the infrared communication ports of wired Controllers.



Infrared Sensor Controller

Full Integration

Using infrared sensors to detect movement, the MD-NIM09 Infrared Sensor Controller automatically turns indoor units on or off upon sensing that the room is occupied or unoccupied. Suitable for hotels, offices, conference rooms and residences, the Infrared Sensor Controller ensures climate control whilst minimizing energy consumption.

Features

Model	MD-NIM09
Appearance	
Network flexibility	
Dimensions (HxWxD)(mm)	Sensor 46x30x25.6, Control box 86x72.8x15.5
Power supply	5V DC (Supplied by indoor unit)
Indoor unit series	all series

Note : The Hotel Key Card Interface Modules only compatible while using the infrared communication ports of wired Controllers.


Diagnosis Software

Monitor and Diagnose

Midea's VRF Diagnosis Software tool is used to monitor VRF systems and diagnose system errors.

System settings and operating parameters can be accessed easily and data logs can be reviewed for fault prevention purposes.

Features

Model		 MCAC-DIAG-B
Max. number of indoor units		64
Max. number of refrigerant systems		1
Control	Mode selection	●
	Temperature setting	●
	Fan speed	●
Outdoor unit monitoring	Operating mode	●
	Capacity	●
	Compressor operating frequency	●
	Operating current	●
	Error status	●
	Temperatures	T3,T4,Tp (See note 1)
	Valve statuses	SV4, SV5, SV6, ST1 (See note 2)
	EXV position	●
Indoor unit monitoring	Operating mode	●
	Capacity	●
	Fan speed	●
	Address	●
	Temperatures	T1, T2, T2B, TS (See note 3)
	EXV position	●
Error codes		●
Troubleshooting		●
Data logs		●
Diagrams		System schematic, refrigerant flow diagram, parameter chart
Languages supported		English
Outdoor unit series		V6/V6i ODU

Notes:

1. Heat exchanger temperature, outdoor ambient temperature, discharge temperature.

2. Oil return valve, defrosting valve, EXV bypass valve, four-way valve.

3. Indoor ambient temperature, indoor heat exchanger mid-point temperature, indoor heat exchanger outlet temperature, set temperature.

Expert Diagnosis

Midea's VRF Diagnosis Software is specially designed to allow after-sales engineers, to understand the operating status of the system at a glance.



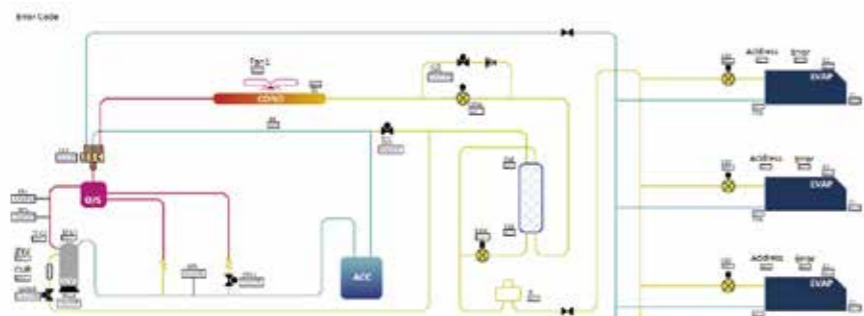
Use-friendly Interface

A stylish and simple interface with rich graphical representations makes diagnosing system issues quick and convenient.



Diagrams

A system schematic, refrigerant flow diagram and parameter chart can be generated to provide a graphical interpretation of the system status.



Parameter Querying

Access all the system parameters easily.

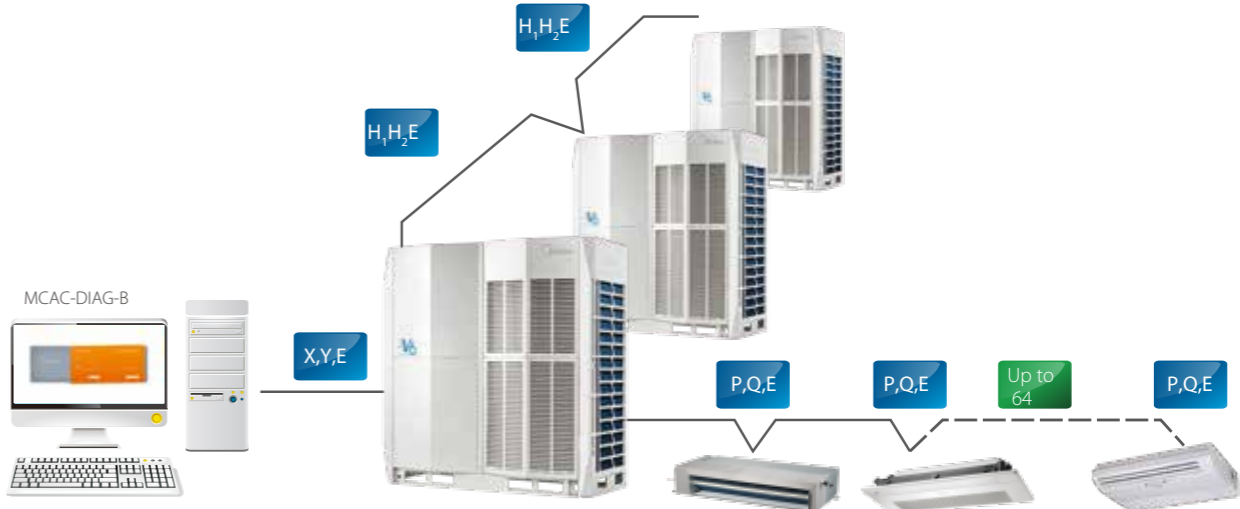


Data Logs

Data logs including operating records and error reports are saved by the software which is useful for discovering system issues.



Wiring Schematic




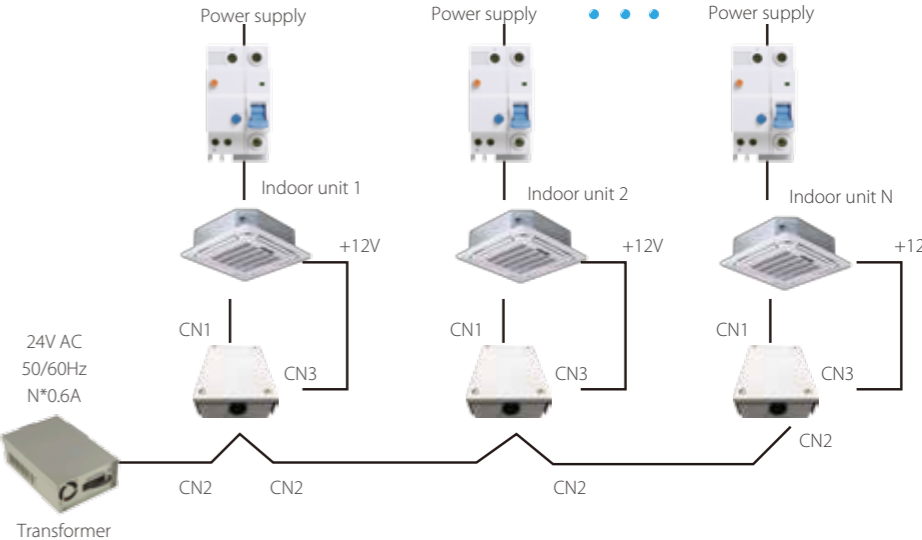
Indoor Unit Online Kit



Prevent Unnecessary Shutdown

If the power supply for one indoor unit fails, the indoor unit will still remain online and the whole VRF system will not stop. The IDU online kit will keep the indoor unit online, thus keeping the other indoor units of the system working normally and prevent unnecessary shutdown.

Features


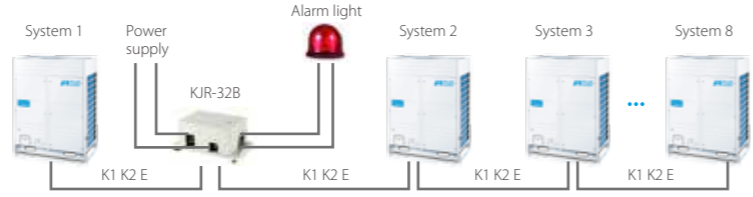
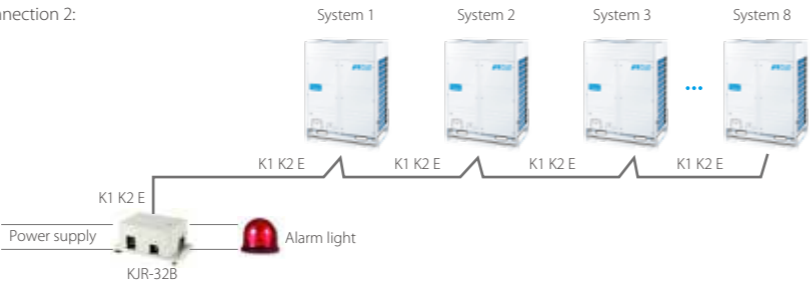
Model	 <p>MCAC-PIDU</p>
Network flexibility	 <p>The diagram illustrates the network flexibility of the MCAC-PIDU. A central transformer provides 24V AC (50/60Hz, N*0.6A) to a common bus. This bus is connected to multiple indoor units (Indoor unit 1, Indoor unit 2, ..., Indoor unit N) via MCAC-PIDU kits. Each kit has a CN1 terminal connected to the indoor unit and a CN3 terminal connected to a power supply. The kits are also connected to a common bus with CN2 terminals. The power supply for each indoor unit is labeled +12V.</p>
Dimensions (HxWxD)(mm)	146.6 x 100.6x 46.8
Power supply	24V AC
Indoor unit series	2 nd generation DC IDU

Remote Alarm Module

Simple Design

KJR-32B is specially designed for engineering applications. It does not display the ODU's working parameters. When the outdoor unit fails, this module can output an alarm signal to remind you that the outdoor unit has failed.

Features



Model	 KJR-32B
Max. number of refrigerant systems	8
Wiring flexibility	<p>Wiring connection 1:</p>  <p>Wiring connection 2:</p> 
Dimensions (HxWxD)(mm)	85X150X70
Power supply	198-242V (50/60Hz)
Outdoor unit series	V4+R/V4+(except for 10-12HP)/V4+W ODU

Network Electricity Distribution Module

Simple Design

MD-NIM10 is designed specifically for Mini VRF. It provides the OAE ports and Mini VRF can be connected to the IMM network control system to realize network electricity distribution.

Features


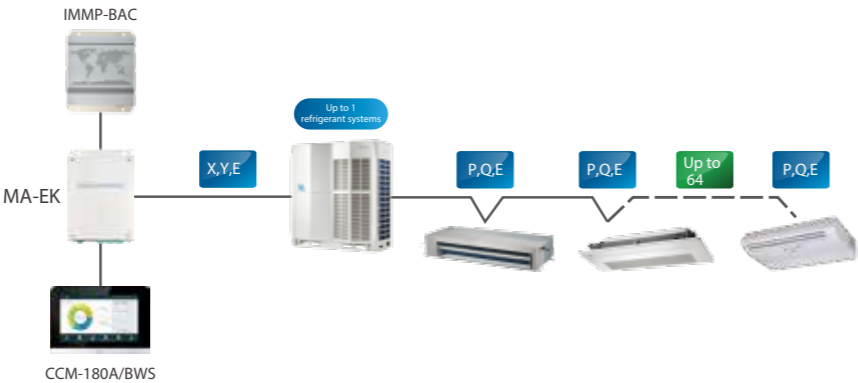
Model	 MD-NIM10
Max. number of outdoor unit	1
Wiring flexibility	
Dimensions (HxWxD)(mm)	85X150X70
Power supply	198-242V (50/60Hz)
Outdoor unit series	Mini VRF ODU

XYE Extension Kit

Simple Design

The MA-EK is used to extend the XYE port of outdoor unit as the 2-way one which can connect to 2 centralized controllers or gateways.

Features

Model	 MA-EK
Max. number of refrigerant systems	8
Wiring flexibility	
Dimensions (HxWxD)(mm)	128X225X28
Power supply	12V DC
Outdoor unit series	all series

Indoor Unit Group Controller

Simple Design

The KJR-150A is an indoor group controller designed specially for 1st generation AC/DC indoor units. It can connect up to 16 indoor units through indoor unit XYE ports. With a display panel connected to KJR-150A, signals from a wired controller and remote controller can control a group of indoor units simultaneously. All indoor units will run at the same setting parameters. Indoor units can also be separately controlled by a remote controller.

Features

Model	 KJR-150A
Max. number of outdoor unit	1
Wiring flexibility	
Dimensions (HxWxD)(mm)	85X150X70
Power supply	198-242V (50/60Hz)
Indoor unit series	1 st generation AC/DC IDU

VRF DX AHU Control Box

High Efficiency

AHU Control Box facilitates raising the EER/COP of the complete AHU system.



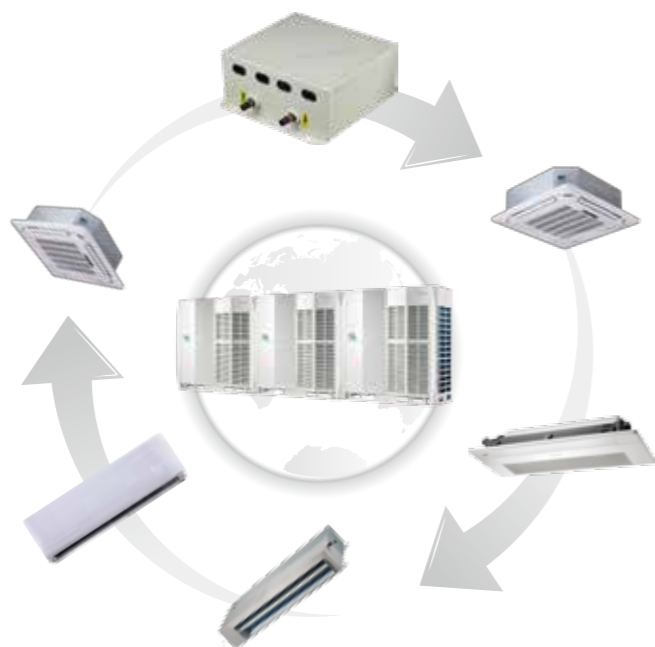
Wide Capacity Range

Four control boxes can be used in parallel, giving an overall capacity range of 3.2HP to 80HP.

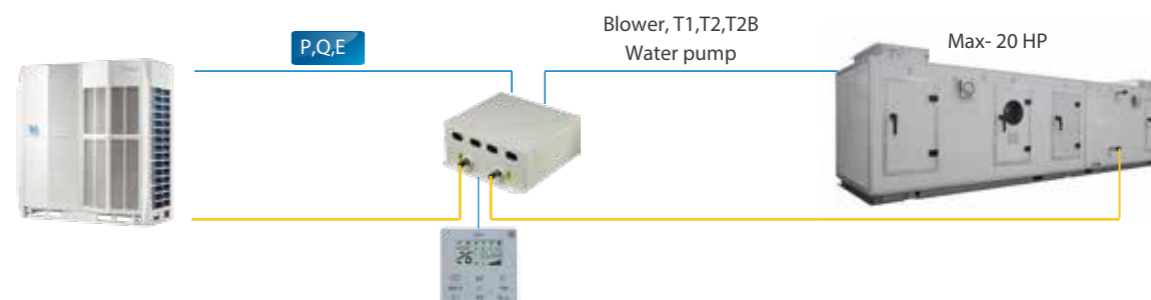


Compatible with VRF Systems

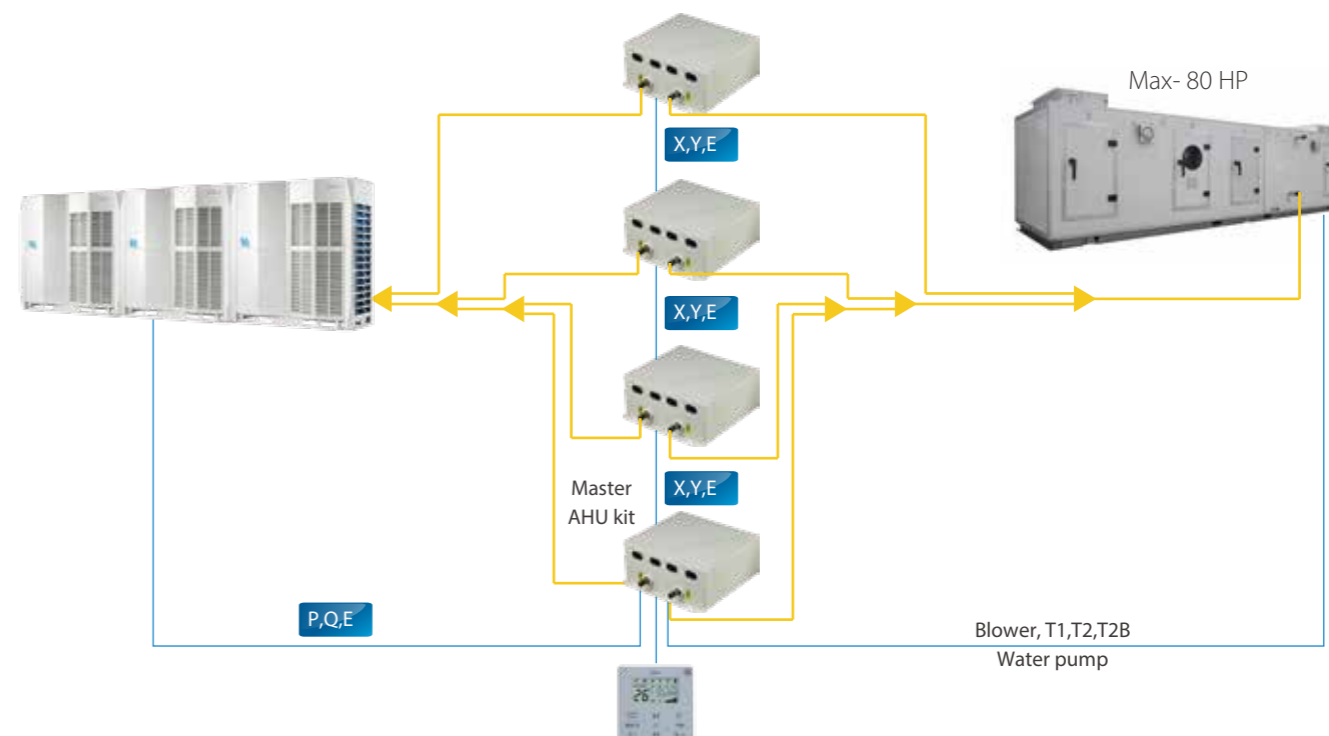
AHU Control Box are compatible with Midea VRF outdoor units and can be used together with all types of Midea VRF indoor units.



Single AHU Control Box Connection



Multi AHU Control Boxes Connection



Specifications

Model		AHUKZ-01B	AHUKZ-02B	AHUKZ-03B
Capacity	HP	3.2-6	8-12	14-20
Power supply		1 phase, 220-240V, 50Hz; 1 phase, 208-230V, 60Hz		
Refrigerant		R410A		
Pipe connections (inlet and outlet)	mm	Ø8	Ø12.7	Ø15.9
Net dimensions (WxHxD)	mm	350x150x375		
Packed dimensions (WxHxD)	mm	420x240x490		
Net weight	kg	8.4	8.7	8.9
Gross weight	kg	11.4	11.7	11.9
Operating modes		Cooling, heating and fan only		
Standard controller		Wired controller		
Optional controller		Wireless remote controller; SIEMENS controller		

Heat Recovery Ventilator

Fan Motor Options

AC and DC fan versions available.

Enhanced Efficiency

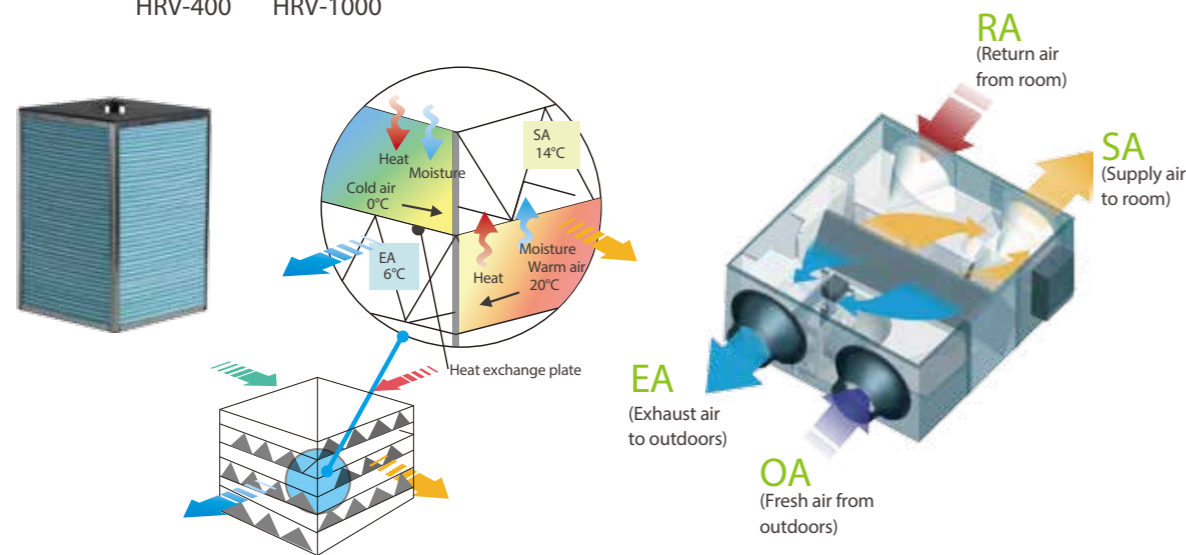
The Midea heat recovery ventilator (HRV) can greatly reduce energy loss and room temperature fluctuations caused by the ventilation process. The Midea HRV's strong performance is a result of the advanced technology incorporated into its design. The heat exchanger core is made of specially treated paper which gives enhanced temperature and humidity control.



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



HRV-1500
HRV-2000

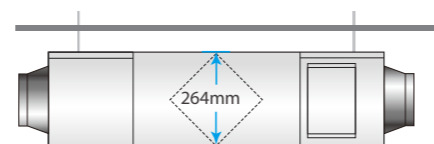


Low Noise

Soundproofing is used to guarantee quiet operation.

Flexibility

Heights starting from as little as 264mm and weights from as little as 23kg mean that the Midea HRV can be easily installed even where space is limited.



Multiple Modes

Heat exchange mode

The flows of incoming and outgoing air pass close to each other, allowing heat transfer between the two channels. During summer, incoming air is cooled by the indoor air being exhausted and in winter, incoming air is warmed.

Bypass mode

In mild climates or seasons, where temperature and humidity differences between indoors and outdoors are small, the HRV can work as a conventional ventilation fan. In standard bypass mode the supply and exhaust fans run at the same speed.

Air supply mode

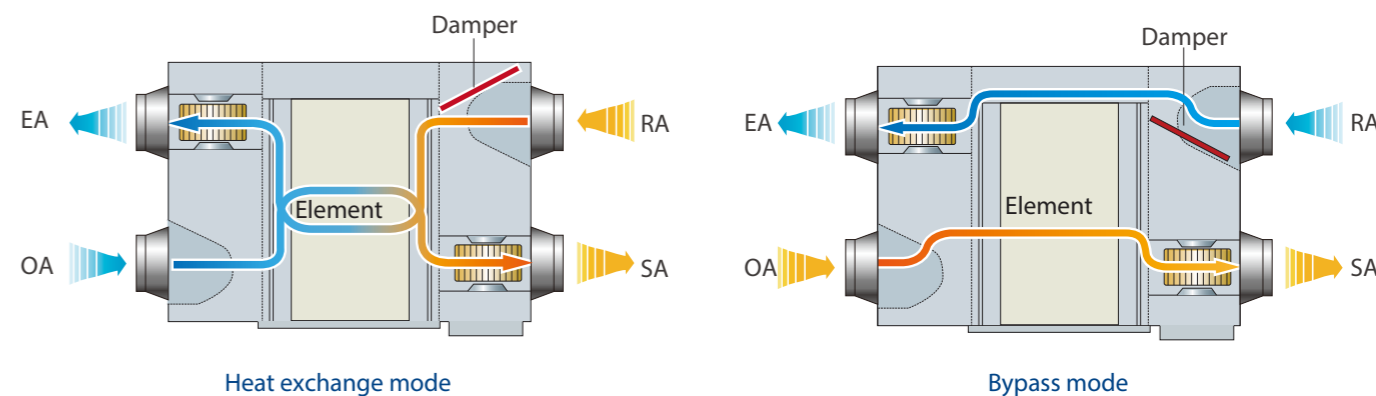
Air supply mode is where the supply fan is set to run faster than the exhaust fan, which is useful in mild climate installations with high fresh air ventilation requirements.

Exhaust mode

Exhaust mode is where the exhaust fan is set to run faster than the supply fan, which is useful in mild climate installations with large amounts of exhaust air to be expelled.

Auto mode

The controller chooses heat exchange mode or bypass mode according to the temperature difference between outdoors and indoors. Both fans are set to run at low speed.



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.



KJR-27B

AC Series

Model		HRV-200	HRV-300	HRV-400	HRV-500
Power supply	V/Ph/Hz	220-240/1/50		220-240/1/50 & 220/1/60	
Cooling temp. exchange efficiency (H/M/L)	%	55/55/60	55/55/60	55/55/60	55/55/60
Cooling enthalpy exchange efficiency (H/M/L)	%	50/50/55	50/50/55	50/50/55	50/50/55
Heating temp. exchange efficiency (H/M/L)	%	60/60/65	60/60/65	60/60/65	65/65/70
Heating enthalpy exchange efficiency (H/M/L)	%	55/55/60	55/55/60	60/60/65	60/60/65
Sound pressure level in heat exchange mode (H/M/L)	dB(A)	27/26/20	30/29/23	32/31/25	35/34/28
Sound pressure level in bypass mode (H/M/L)	dB(A)	28/27/22	31/30/25	33/32/27	36/35/30
Airflow rate (H/M/L)	m ³ /h	200/200/150	300/300/225	400/400/300	500/500/375
External static pressure (H/M/L)	Pa	75/58/35	75/60/40	80/65/43	80/68/45
Motor type		AC			
Duct diameter	mm	Φ144	Φ144	Φ144	Φ194
Net dimensions (WxDxH)	mm	866x655x264	944x722x270	944x927x270	1038x1026x270
Packed dimensions (WxDxH)	mm	960x770x445	1020x810x452	1020x1020x452	1120x1120x452
Net weight	kg	23	26	31	41
Gross weight	kg	40	44	52	64
Operating temperature range	°C	-7 to 43 DB, RH 80% or lower			

Model		HRV-800	HRV-1000	HRV-1500	HRV-2000
Power supply	V/Ph/Hz	220-240/1/50 & 220/1/60		380-415/3/50 & 220/3/60	
Cooling temp. exchange efficiency (H/M/L)	%	55/55/60	55/55/60	55	55
Cooling enthalpy exchange efficiency (H/M/L)	%	50/50/55	50/50/55	50	50
Heating temp. exchange efficiency (H/M/L)	%	65/65/70	65/65/70	65	65
Heating enthalpy exchange efficiency (H/M/L)	%	60/60/65	60/60/65	60	60
Sound pressure level in heat exchange mode (H/M/L)	dB(A)	39/38/32	40/39/33	51	53
Sound pressure level in bypass mode (H/M/L)	dB(A)	40/39/34	41/40/35	52	54
Airflow rate (H/M/L)	m ³ /h	800/800/600	1000/1000/750	1500	2000
External static pressure (H/M/L)	Pa	100/82/54	100/85/58	160	170
Motor type		AC			
Duct dimensions	mm	Φ242	Φ242	346x326	346x326
Net dimensions (WxDxH)	mm	1286x1006x388	1286x1256x388	1600x1270x540	1650x1470x540
Packed dimensions (WxDxH)	mm	1380x1100x573	1400x1370x573	1710x1410x720	1760x1610x720
Net weight	kg	62	79	163	182
Gross weight	kg	88	110	224	247
Operating temperature range	°C	-7 to 43 DB, RH 80% or lower			

Note:

- Models HRV-200 to HRV-1000 each have 3 airflow settings; the airflow rates of the HRV-1500 and HRV-2000 are not adjustable.
- Sound level is measured 1.4m below the center of the unit in a semi-anechoic chamber.
- Efficiency is measured under the following conditions:
Cooling: exhaust air temp 27°C DB, 19.5°C WB; fresh air temp. 35°C DB, 28°C WB.
Heating: exhaust air temp 21°C DB, 13°C WB; fresh air temp. 5°C DB, 2°C WB.

DC Series

Model		HRV-D200(A)	HRV-D300(A)	HRV-D400(A)	HRV-D500(A)	
Power supply	V/Ph/Hz	220-240/1/50(60)				
Power input	kW	0.07	0.1	0.11	0.15	
Nominal temperature efficiency	%	81.1	75.5	77.7	80.6	
Nominal enthalpy efficiency	%	77.5	72.1	73.5	74	
Current	A	0.64	0.84	0.97	1.2	
Indoor external static pressure (Hi)	Pa	100	90	100	90	
Nominal air flow	m ³ /h	200	300	400	500	
Sound pressure level	dB(A)	45	48	48	50	
Net dimension (WxDxH)	mm	1195x801x272	1195x914x272	1276x1204x272	1311x1106x390	
Packing size (WxDxH)	mm	1275x880x420	1275x994x420	1360x1284x420	1390x1244x540	
Net/Gross weight	kg	46.5/63.5	56.5/75.5	71.5/91.5	76/98	
Fresh air	Fresh Air Diameter	mm	Φ144	Φ144	Φ198	Φ244
	Air drop	Pa	52	179	218	189
Operating temperature range	°C	-7 to 43 DB, RH 80% or lower				




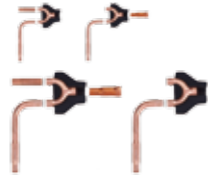
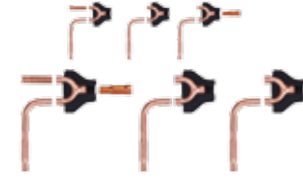
Model		HRV-D800(A)	HRV-D1000(A)	HRV-D1500(A)	HRV-D2000(A)	
Power supply	V/Ph/Hz	220-240/1/50(60)				
Power input	kW	0.32	0.38	0.68	0.95	
Nominal temperature efficiency	%	78.7	82.8	75.5	77.2	
Nominal enthalpy efficiency	%	72.3	76	69.4	74.7	
Current	A	2.4	2.9	3.8	5.7	
Indoor external static pressure (Hi)	Pa	140	160	180	200	
Nominal air flow	m ³ /h	800	1000	1500	2000	
Sound pressure level	dB(A)	55	54	69	70	
Net dimension (WxDxH)	mm	1311x1286x390	1311x1526x390	1740x1375x615	1811x1575x685	
Packing size (WxDxH)	mm	1390x1424x540	1390x1670x540	1830x1520x770	1900x1720x845	
Net/Gross weight	kg	80/104	90/112	181.5/213	208.5/245	
Fresh air	Fresh Air Diameter	mm	Φ244	Φ244	346x326	346x326
	Air drop	Pa	357	384	253	322
Operating temperature range	°C	-7 to 43 DB, RH 80% or lower				

Note:

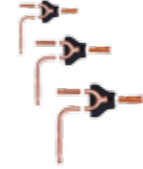
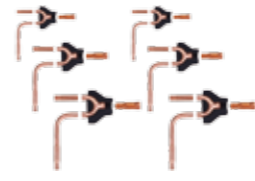
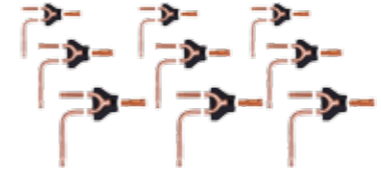
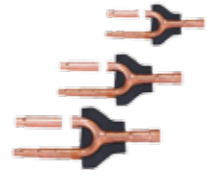
- All models each have 3 airflow setting.
- Sound level is measured 1.4m below the center of the unit in a semi-anechoic chamber.
- The parameters in the above table are measured at high speed.

Branch Joints

For Heat Pump Outdoor Units

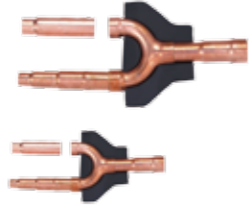
Type	Appearance	Model	PackedDimensions mm	GrossWeight kg	Note
Branch joints for V6 & VC Pro VRF		FQZHW-02N1E	255x150x185	2.0	Connecting two outdoor units
		FQZHW-03N1E	345x160x285	4.3	Connecting three outdoor units
Branch joints for V4+W VRF		FQZHW-02N1D	255x150x185	1.5	Connecting two outdoor units
		FQZHW-03N1D	345x160x285	3.4	Connecting three outdoor units
		FQZHW-04N1D	475x165x300	4.8	Connecting four outdoor units

For Heat Recovery Outdoor Units

Type	Appearance	Model	Packed Dimensions mm	GrossWeight kg	Note
Branch joints between outdoor unit		FQZHW-02SB	272x167x232	2.2	Connecting two outdoor units
		FQZHW-03SB	472x157x312	5.0	Connecting three outdoor units
		FQZHW-04SB	745x160x335	7.5	Connecting four outdoor units
Branch joints between MS and outdoor unit		FQZHN-01SB	257x127x107	0.8	
		FQZHN-02SB	287x137x107	0.9	
		FQZHN-03SB	297x167x177	1.4	
		FQZHN-04SB	372x197x187	2.3	
		FQZHN-05SB	432x222x227	3.3	

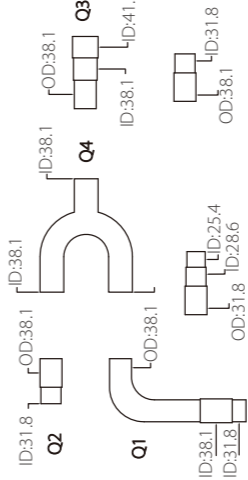
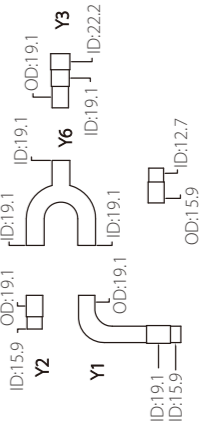
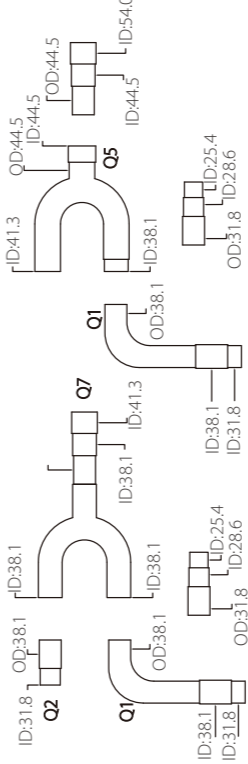
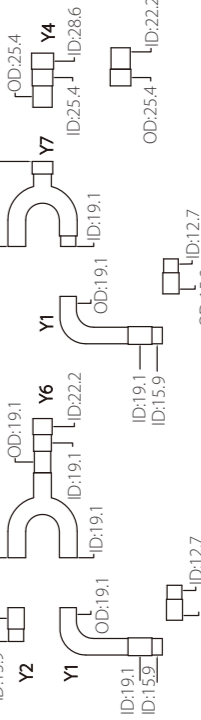
Branch Joints

For Indoor Units

Type	Appearance	Model	PackedDimensions mm	GrossWeight kg	Note
Branch joints for indoor units		FQZHN - 01D	290x105x100	0.4	/
		FQZHN - 02D	290x105x100	0.6	/
		FQZHN - 03D	310x130x125	0.9	/
		FQZHN - 04D	350x180x170	1.5	/
		FQZHN - 05D	365x195x215	1.9	/
		FQZHN - 06D	390x230x255	3.1	/
		FQZHN - 07D	390x230x255	3.4	/

Dimensions

Outdoor Branch Joints

Model	Gas side joints	Liquid side joints
FQZHW-02N1E		
FQZHW-03N1E		

Model	Gas side joints	Liquid side joints
FQZHW-02N1D		
FQZHW-03N1D		
FQZHW-04N1D		

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

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

Model	Gas side joints	Liquid side joints
FQZHN-01D		
FQZHN-02D		
FQZHN-03D		
FQZHN-04D		
FQZHN-05D		
FQZHN-06D		
FQZHN-07D		