



HVAC
BUILDING
TECHNOLOGIES



2021 VRF
50/60Hz Catalogue

HVAC & Building Technologies Division
Midea Group

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Postal code: 528311

hbt.midea.com www.midea-group.com



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

Midea HBT

Midea HBT (HVAC & Building Technologies) is a key division of the Midea Group, a leading provider of comprehensive solutions of intelligent building, involving energy sources, elevators, control systems, and heating, ventilation & air conditioning. Midea HBT has continued with the tradition of innovation upon which it was founded and emerged as a global leader in the HVAC and building management industry. A strong drive for advancement has resulted in an extensive R&D department that has placed Midea HBT at the forefront of a competitive edge. Through these independent projects and joint-cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide.



Several production bases are situated on Shunde, Chongqing, Hefei, and Italy.

MHBT Shunde: 38 product lines focusing on VRF, Split Products, Heat Pump Water Heaters and AHU/FCU.

MHBT Chongqing: 14 product lines focusing on Water Cooled Centrifugal/Screw/Scroll Chillers, Air Cooled Screw/Scroll Chillers and AHU/FCU.

MHBT 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.



Benefits of Midea VRF

Benefits for End-users



Healthy Operation

- An outside air intake port in the indoor unit allows outdoor fresh air to be introduced into indoor rooms
- Puro-Air kit, powered by OSRAM's UVC lamps, can effectively kill bacteria, viruses and odors of indoor air to provide a healthy and safe indoor environment
- PCO-kit use magnetic particles coated with TiO₂nanoparticles to oxidize organic pollutants to produce harmless substances such as carbon dioxide and water



Cost Saving Operation

- Cost saving can be up to 31% through Midea META technology
- High efficiency operations thanks to the full DC inverter technology



Comfortable Environment

- 0.5° C or 1° C steps temperature setting and 7 fan speeds, providing comfortable environment
- Zen air technology ensuring comfortable in any condition
- Noise level is as low as 22dB(A), creating a quiet environment



Benefits for Building Owners



Energy Saving Management

- Centralized and unified management of all equipment, saving energy and manpower
- Remote access to CCM-15 allows anytime, anywhere control (via mobile app "M-Control")



Reliable Operation

- The key components are made of internationally renowned brands, like Hitachi, Danfoss, FUJIKOKI, Infineon, Mitsubishi etc., enhancing better performance and guaranteeing reliable operation
- Electric control parts are produced by well-known Midea-SIIX Electronics Corporation, enhancing reliability
- Doctor M technology real-time monitoring system operation, timely self-diagnosis, ensuring stable and reliable operation



Backup Solution

- Double back-up function allowing time for maintenance or repair whilst maintaining comfort
- Maintenance mode can be activated on site during maintenance period as the remaining indoor units continue to operate



Benefits for Consultants



Diversified Solutions

- A wide product portfolio including air cooled heat pump VRF, Air cooled heat recovery VRF, air cooled cooling only VRF and water cooled VRF
- 12 types and more 100 models of VRF indoor units to meet varied customer requirements in a wide range of locations
- Heat Recovery Ventilation and Air Handling Unit adding more options



Professional Tool and Support

- MSSP (Midea Selection Software Platform) enables an easy and quick selection and provides comprehensive system design reports and calculations
- CFD analysis helps optimize solutions and anticipate potential problems in advance
- Energy consumption analysis helps to provide optimal design solutions



Design Flexibility

- Up to 80°C hot water supply in heat recovery system
- Standard and tropical area applications
- Supporting cooling operation even at -15°C



Benefits for Construction Companies



Green Solutions

- Help earn points when applying for a LEED certificate
- Renewable energy solution provided through water cooled application



Space Saving Design

- Top class compact design, 16kW capacity with only 0.42m² footprint which also can be hang on the wall
- Large capacity for single unit design can save space in big system



Intelligent Management

- Full compatibility with the leading BMS protocols: BACnet, LonWorks, Modbus and KNX



Residential Apartments

One for Every home

Apartments

Villas



The compact size and high efficiency make Midea VRF suitable for all residential homes.

Application Solutions

Office Complexes

Enjoy comfort while working

High-rise office building

Small and medium-sized office buildings



Be it small or large sized, Midea VRF provides solution for all office buildings and its smart control solutions makes the management of VRF simple and easy whereas the wide variety of indoor units are suitable for all designs.

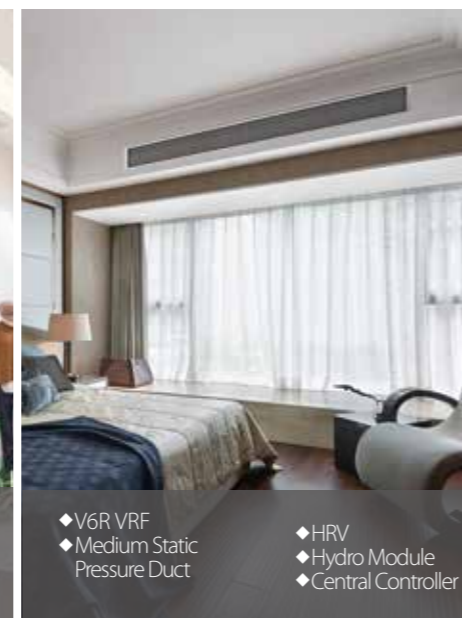
Hotels & Shopping Malls

Increase your business, not your bills

Shopping Malls

Retails

Hotel



The high efficiency and reliability of Midea VRF makes it suitable to be used for all commercial applications. The intelligent control solutions like hotel key cards and touch screen controller makes the management easy

Other Applications

Meeting all expectations

Hospitals

Schools

Airports



The innovative design and a variety of indoor unit choices makes Midea VRF suitable for all kinds of applications. The newly designed puro-air kit is a must have product for modern hospitals.



MHBT Learning Academy

Objective

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

Training Centers

Our world class training centers provide knowledge and skills necessary to efficiently deploy Midea HBT 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 HBT Training Center

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

The Midea HBT 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 HBT 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 HBT 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.

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 HBT products. Technical person and engineers from different parts of the world are invited to take part in these trainings.

ZOOM Online Trainings: The trainings to the Global customers can also be done online with the help of ZOOM software. This way, the customers do not need to be physically present for the training. Amid the COVID-19 pandemic, Midea HBT Learning Academy has conducted a lot of online trainings. The training videos are available on the TSP system and can be downloaded by using QR codes.

Products: VRF, M thermal, Chillers and Terminals

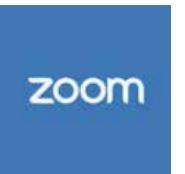
Highly Skilled Trainers: The trainers for various courses by Midea HBT Learning Academy are expert people with vast experiences in their field. Most of them have a deep insight about the global HVAC market and help the attendees to better understand the HBT products.

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 HBT 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.



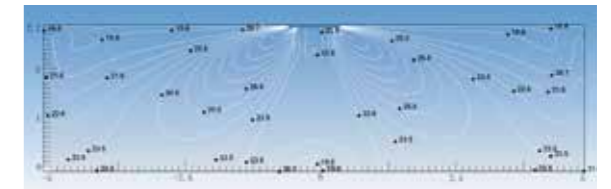
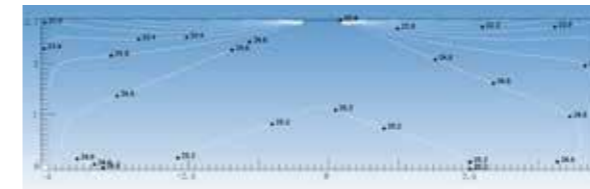
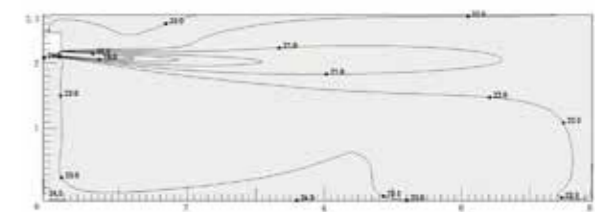
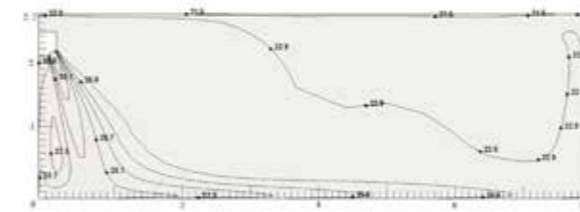


Simulation

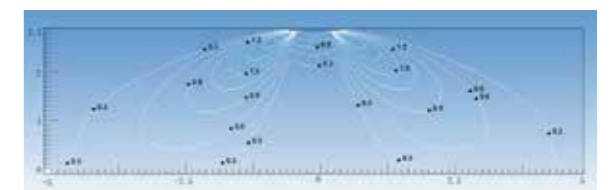
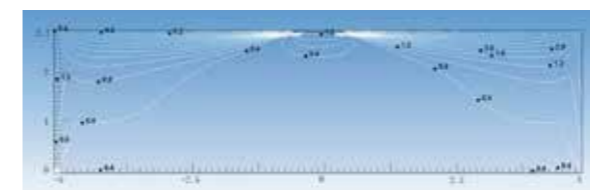
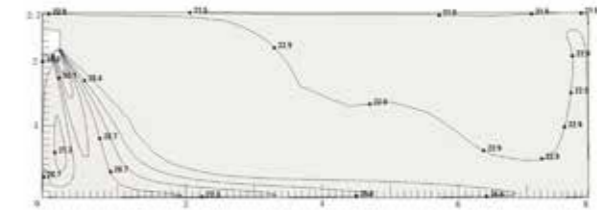
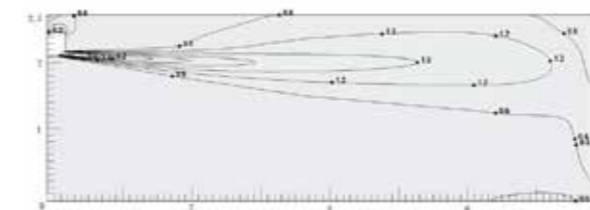
CFD (Computational Fluid Dynamics)

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



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.



DESIGN

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

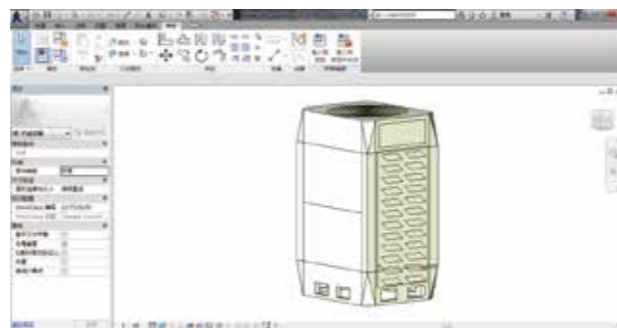
MSSP-CAD design enables an visual and fast selection and provides comprehensive system design reports and calculations.

Note: MSSP (Midea Selection Software Platform)



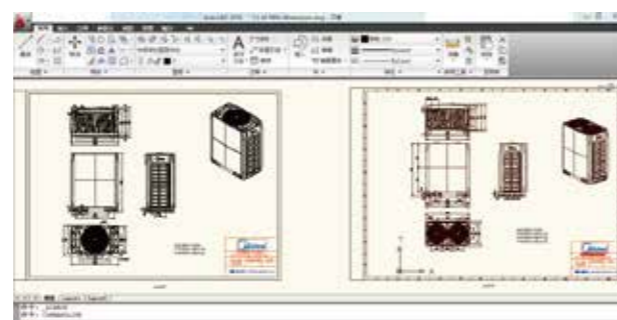
Revit Family

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.



Midea Global Spare Center

The global spare center provides high quality and fast spare parts supply. Midea online system (<https://tsp.midea.com>) can query and purchase spare parts with one click, further shortening the supply time of spare parts.



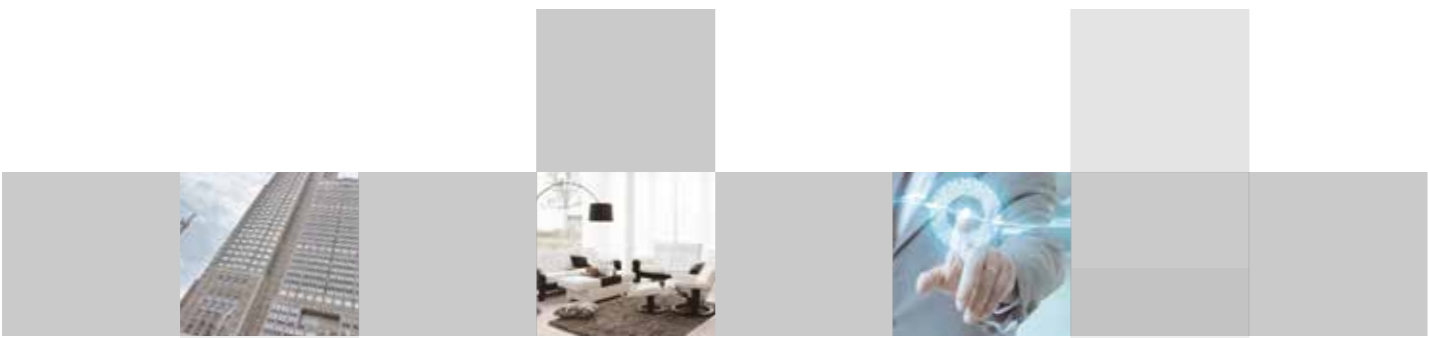
- Regional Spare parts center
- Shared Spare parts inventory



> INDEX

02 INDOOR UNITS

- 083 Normal VRF Indoor Units
- 137 DX Modular Air Handling Unit
- 141 Heat Recovery Ventilator
- 145 Puro-Air Kit



01

OUTDOOR UNITS

Air cooled - heat pump VRF

- 033 VRF VX
- 043 VRF VXi
- 047 VRF V4+i - side discharge
- 049 Mini VRF

Air cooled - heat recovery VRF

- 055 VRF V6R

Air cooled - cooling only VRF

- 063 VRF VC Pro
- 071 VRF VC-i
- 073 Mini VRF

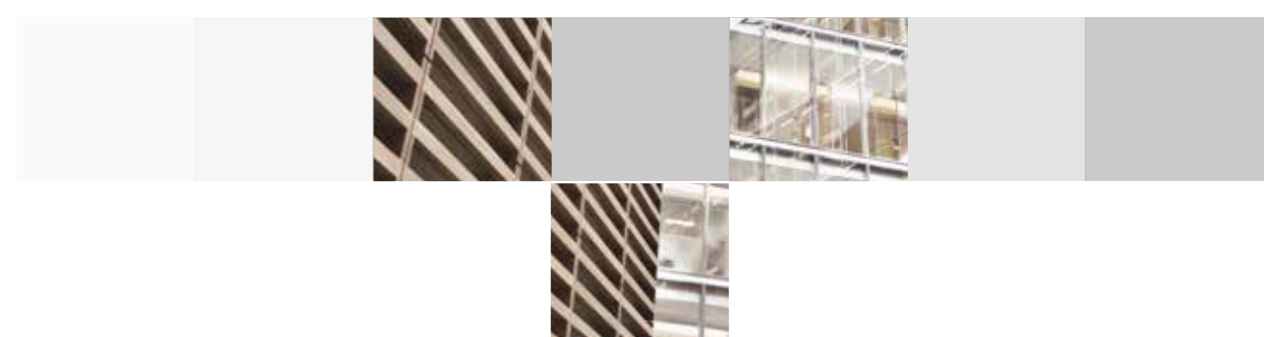
Water cooled VRF

- 077 VRF V4+W

04 BRANCH JOINTS



- 201 Branch Joints
- 209 Branch Headers



03 CONTROL SYSTEMS

- 157 Remote Controllers
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OUTDOOR UNITS

Air Cooled - Heat Pump VRF
Air Cooled - Heat Recovery VRF
Air Cooled - Cooling Only VRF
Water Cooled VRF



Outdoor Unit Lineup

Outdoor Unit Lineup

Outdoor Unit Lineup

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	34	36	38-60	62-90	92-102		
Air Cooled - Heat Pump	VRF VX									Single Unit	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	VRF VXi									Single Unit	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●					
	VRF V4+ - Side Discharge								●	Single Unit	●	●	●	●	●	●															
	Mini VRF - Standard		●	●	●	●	●	●			Single Unit																				
	Mini VRF - Mini C Series		●	●	●	●	●				Single Unit																				
Air Cooled - Heat Recovery	VRF V6R									Single Unit	●		●	●	●	●	●	●	●												
Air Cooled - Cooling Only	VRF VC Pro									Single Unit	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	VRF VC-i								●	Single Unit	●	●	●																		
	Mini VRF - Cooling Only		●	●	●		●	●			Single Unit																				
Water Cooled	VRF V4+W									Single Unit	●		●	●																	
											Combination Unit																				

● Single unit ● Combination unit

Outdoor Unit Functions

Functions	Air Cooled - Heat Pump				Air Cooled - Heat Recovery	Air Cooled - Cooling Only			Water Cooled		
	VRF VX	VRF VXi	VRF V4+i-side discharge		Mini VRF - standard	Mini VRF - Mini C series	VRF V6R	VRF VC Pro	VRF VC-i	Mini VRF (cooling only)	VRF V4+W
Key Technology	META technology	●	●	×	×	×	●	●	×	×	×
	Zen air	●	●	●	●	●	●	●	●	●	●
	Doctor M.	●	●	×	×	×	●	●	×	×	×
High Efficiency	Full inverter compressors	●	●	●	●	●	●	●	●	●	●
	Enhanced Vapor Injection (EVI) compressor	●	●	×	×	×	●	×	×	×	×
	Full DC fan motors	●	●	● (20-33.5kW)	●	●	●	●	×	×	×
	Plate Heat Exchanger (PHE) subcooling	●	●	×	×	×	●	×	×	×	×
	G-type heat exchanger	● (26-34HP)	● (26-34HP)	×	×	×	×	● (24-30HP)	×	×	×
	7 levels of energy management	40-100%	40-100%	×	×	×	40-100%	40-100%	×	×	×
	Duty cycling	●	×	×	×	×	●	●	×	×	●
High Reliability	Precise oil control	●	●	●	●	●	●	●	●	●	●
	Backup operation (compressor)	●	●	×	×	×	●	●	×	×	×
	Backup operation (module)	●	×	×	×	×	●	●	×	×	●
	Anti-corrosion protection	●	●	●	●	●	●	●	●	●	●
	UL anti-corrosion certificate	●	●	×	×	×	×	●	×	×	×
	Refrigerant cooling PCB	●	●	×	×	●	●	●	●	● (14.5/17kW)	×
	Real-time refrigerant amount monitoring	●	●	×	×	×	●	●	×	×	×
	Auto snow-blowing function	○	○	×	×	×	○	×	×	×	×
	Dust-clean function	○	○	×	×	×	○	○	×	×	×
	Gas leak protection	×	×	×	×	×	●	×	×	×	×
	Silent mode	Night silent mode+silent mode+super silent mode	Night silent mode+silent mode+super silent mode	×	×	×	×	Night silent mode+silent mode+super silent mode	Night silent mode+silent mode+super silent mode	×	×
Enhanced Comfort	Intelligent defrosting technology	●	●	●	●	●	●	×	×	×	●
	Continuous heating (alternate defrost)	×	×	×	×	×	●	×	×	×	×
	Connectable to high temperature hydro module for hot water	×	×	×	×	×	●	×	×	×	×
	Multiple priority modes	●	●	●	●	●	×	×	×	×	●
Easy Installation and Service	Auto addressing	●	●	●	●	●	●	●	●	●	●
	Automatic refrigerant charging	○	○	×	×	×	○	○	×	×	×
	Automatic refrigerant recycling	○	○	×	×	×	○	○	×	×	×
	Multi-functional diagnosis box	○	○	×	×	×	●	-	×	×	×
	Maintenance mode	●	●	×	×	×	●	●	●	●	●
	Oil balancing pipe between modules not required	●	●	●	●	●	●	●	●	●	×
	Triple configurations	●	●	×	×	×	●	●	×	×	×
	Digit display	4 digit 7-segment display	4 digit 7-segment display	3 digit 7-segment display		3 digit 7-segment display	3 digit 7-segment display	4 digit 7-segment display	4 digit 7-segment display	3 digit 7-segment display	3 digit 7-segment display
High external static pressure	120Pa	120Pa	×		×	×	80Pa	60Pa	×	×	×

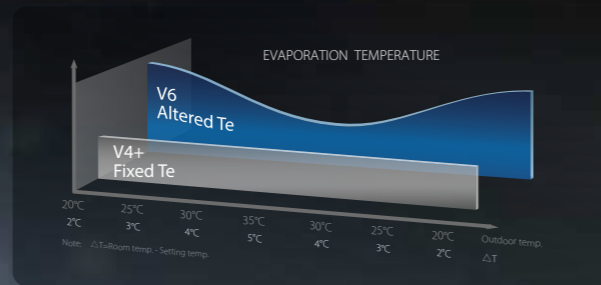
Note:
 ●: equipped as standard; ○: customization option; ×: without this function

KEY TECHNOLOGIES



* Midea Evaporative Temperature Alteration

The evaporative temperature (in cooling) and condensing temperature (in heating) are automatically altered according to both indoor and outdoor temperature **TO MAXIMIZE THE COMFORT AND ENERGY EFFICIENCY**



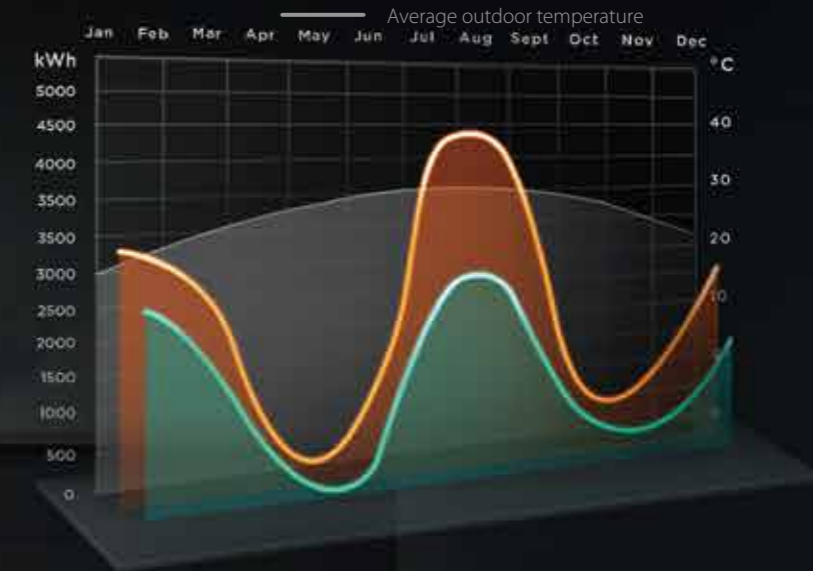
Through the data monitoring of a replacement project in Hangzhou from 2018 to 2019, we obtained the following actual data.

2018-V4+

The total electricity consumption is 24577kWh from 2018 to 2019.

2019-VX(META)

The total electricity consumption is 16904kWh from 2019 to 2020.



Save **1074USD** electricity cost all year round.

A DESIGN STUDIO

In Fuyang District, Hangzhou, China.

The total usable area is 312 m²

AIR LIFE HEALTH

ENSURES PURITY FOR EVERY INDOOR BREATH

PURO-AIR KIT

SAFE indoor air, from the invisible care

PURIFICATION speed industry leader



UV Guard



Clean Wave



Ozone Free



Safe Shading

AIR DYNAMIC HARMONY

BLENT IN DAILY LIFE HARMONIOUSLY

- 7 fan speeds provide **COMFORT WITHOUT NOTICE** under every indoor condition.
- Guaranteed **NON-STOP** indoor warmth in winter by intelligent defrosting.
- **FOLLOW ME** function ensures closer thermal sensing with controller build-in sensor, provide more precise air temp. with **0.5°C** adjustment.



AIR DIMENSION FREEDOM

FLOW FREELY FROM ALL DIMENSIONS



360° FLOW



4-WAY INDEPENDENT ZONING FLOW



5-LEVEL SWINGING FLOW



HORIZONTAL FLOW





MULTI-FUNCTIONAL DIAGNOSIS BOX

STORE UP TO 30 SETS OF ERROR DATA
SIMPLIFYING MAINTENANCE



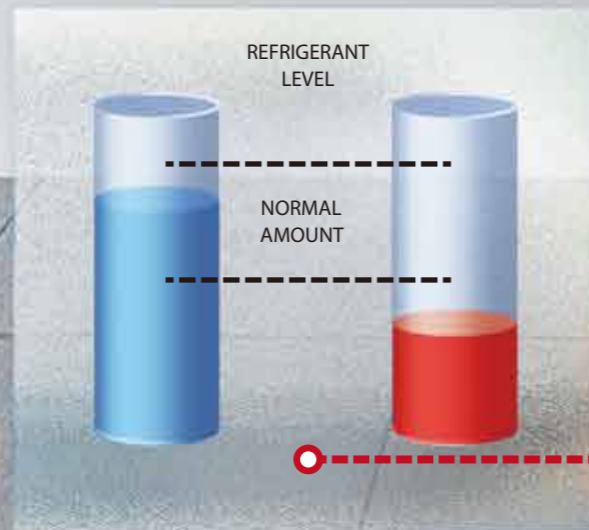
DIAGNOSIS DASHBOARD

REAL TIME MONITORING AND
FAST ERROR LOCATING



REFRIGERANT DETECTOR

REAL TIME REFRIGERANT
AMOUNT MONITORING TO
ALARM AND ENSURE
CONSISTENT PERFORMANCE



DOCTOR m.



INSUFFICIENT REFRIGERANT

HIGH EFFICIENCY

High Efficiency Enhanced Vapor Injection (EVI) Compressor

The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves both cooling and heating capacity.

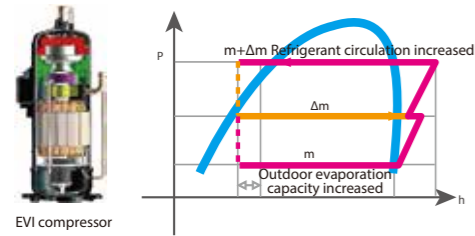
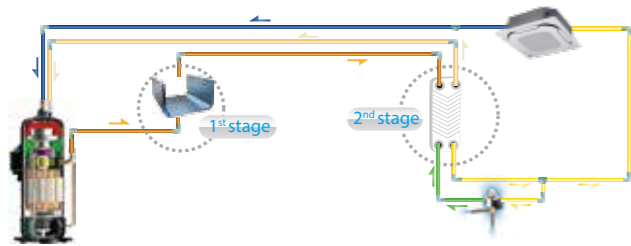


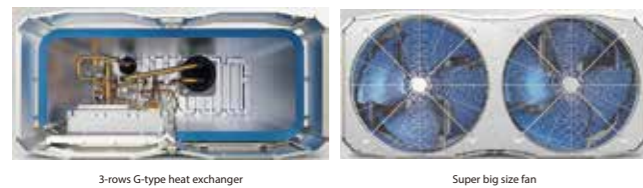
Plate Heat Exchanger (PHE) Subcooling

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



High Efficiency G-Type Heat Exchanger

The large capacity units use a high efficiency G-type heat exchanger which heat exchanger area is 1.5 times of the U-type heat exchanger.



7 Levels of Energy Management

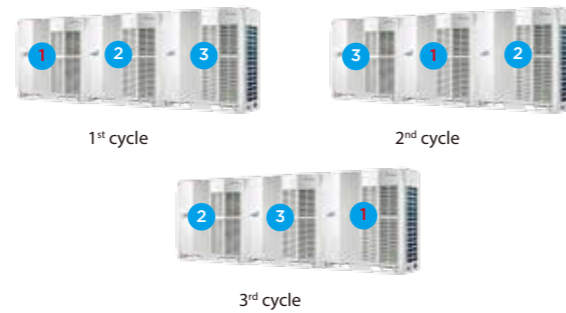
For projects with temporary electricity supply restrictions, the outdoor unit supports 7 levels of energy management which can be set to output 40-100% capacity. It prevents tripping during electricity supply restriction conditions and remains system continue to operate.



HIGH RELIABILITY

Duty Cycling

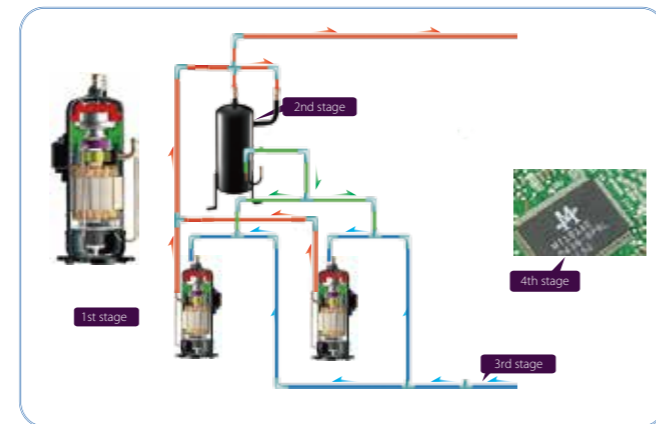
Duty cycling equalizes the running time of the outdoor units in a multiple-unit system and of the compressors in each unit, significantly extending compressor lifespan.



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.



Refrigerant Cooling PCB

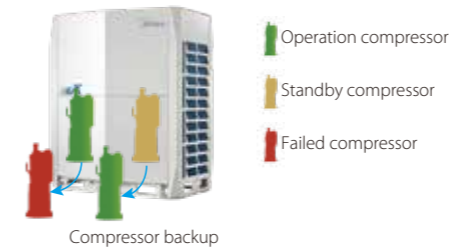
The unit uses refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components by about 8 degrees, guaranteeing the stable and safe running of the control system.



Double Back-up Operation

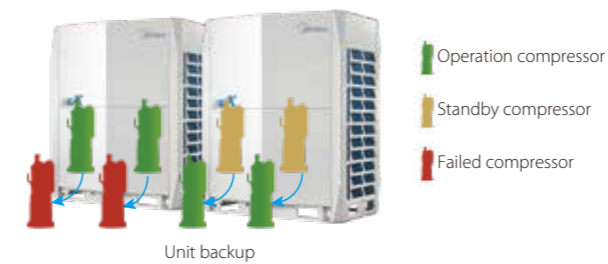
Compressor backup

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.



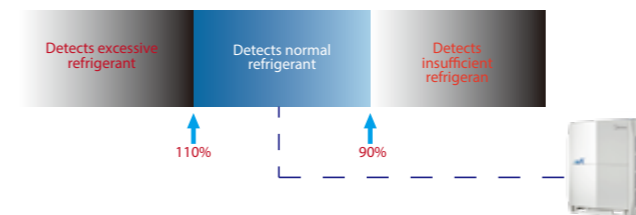
Unit backup

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



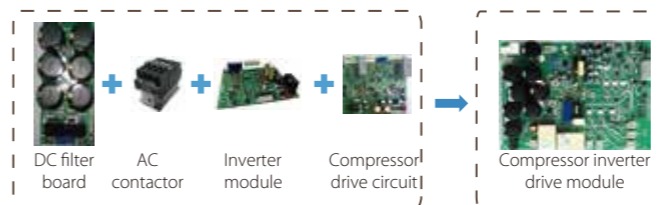
Real-time Refrigerant Amount Monitoring

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. The unit can detect excessive or insufficient amounts of refrigerant, to ensure consistent performance.



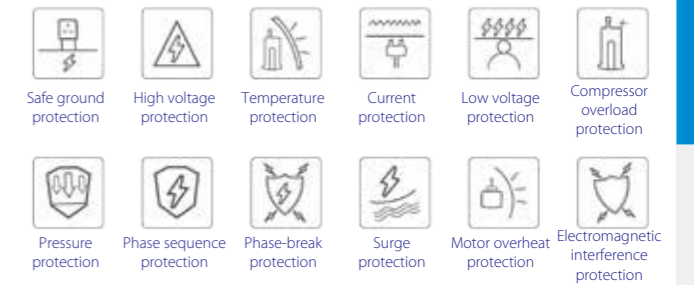
Electrical Components Highly Integrated Design

Multiple electrical components are integrated into a single board, the integrated design can reduce the wiring connections greatly, making the electrical wiring more simple and reliable.



Multiple Protection Function

Multiple protection function, such as safe ground protection, voltage protection, temperature protection, current protection, pressure protection, compressor overload protection, motor overheat protection, electromagnetic interference protection, etc., ensuring the system consistently safe and reliable operation.



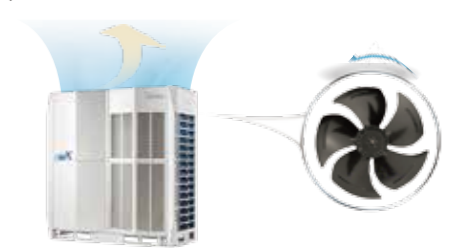
Extreme Testing

Tests under extreme conditions such as Highly Accelerated Life Testing (HALT), Surge testing and Electro-Static Discharge (ESD), the test conditions for which are far more extreme than EU test standards are performed on the units to further guarantee the reliability of electronic components.



Auto Snow-blowing Function

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



Dust-clean function

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



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



02 Fan motor

Standard products:
96h of neutral salt mist for IDU
168h of neutral salt mist for ODU
Heavy anti-corrosion products:
1000h of neutral salt mist for ODU



03 Electric control box case

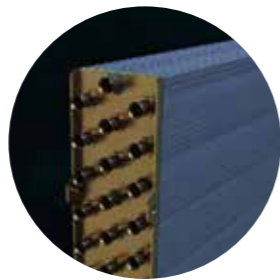
Standard products:
96h of neutral salt mist
Heavy anti-corrosion products:
500h of neutral salt mist

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.



04 Heat exchanger aluminum foil

Standard products:
200h of neutral salt mist
Heavy anti-corrosion products:
1000h of neutral salt mist
140h of acid salt mis

Heat exchanger copper pipe

Standard products:
24h of neutral salt mist
Heavy anti-corrosion products:
48h of neutral salt mist for IDU
150h of neutral salt mist for ODU



05 Painted sheet metal

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

Heavy anti-corrosion products:
800h of neutral salt mist
2000h of moisture and heating test
800h of light aging test

WIDE CAPACITY RANGE

Wide Capacity Range

Midea VRF has an extensive capacity ranging from 2.5HP to 102HP, meeting all customer requirements from small to large buildings.



Wide Product Portfolio

Midea VRF supplies a wide product portfolio including air cooled heat pump VRF, Air cooled heat recovery VRF, air cooled cooling only VRF and water cooled VRF to meet the needs of various application scenarios in the market.



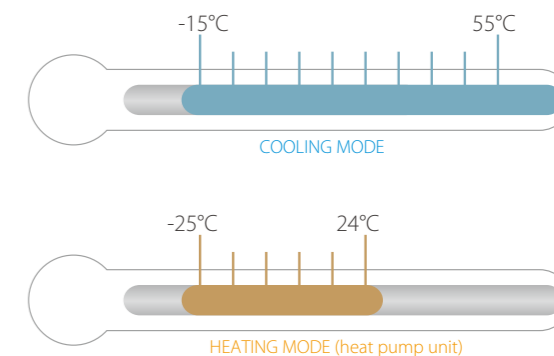
Wide Range of Indoor Units

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



Wide Operation Range

The VRF system operates stably under extreme conditions, ranging from minus -25°C to 55°C.



Note: the operating temperature range of different series may a little different. Please refer to the specification of each series.

ENHANCED COMFORT

Advanced Silent Technology

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

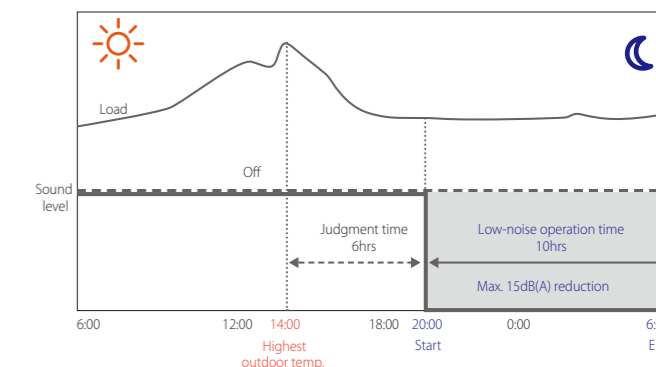


- In night silent mode and silent mode, only maximum fan speed is limited to meet the normal silent requirement.



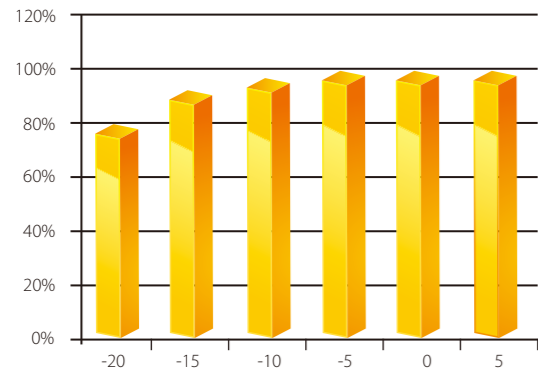
- In super silent mode, both maximum fan speed and compressor frequency are limited to meet higher silent requirement.

The night silent mode feature, which is easily configured on the outdoor unit's PCB, includes various scheduling options that can be used to reduce noise levels at times when low noise operation is required.



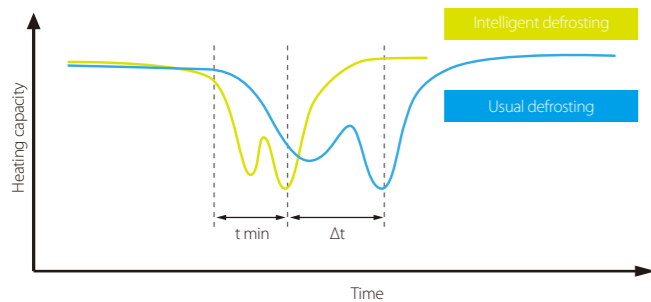
Enhanced Heating Capacity

Thanks to the EVI compressor, the heating capacity can be improved greatly. Heating capacity is 100% of rated capacity at ambient temperatures as low as -5°C and 90% of rated capacity at -15°C.



Intelligent Defrosting Technology

The intelligent defrosting program calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting. A specialized defrosting valve reduces time required for defrosting to as little as four minutes.



Multiple Priority Modes

Multiple priority modes settings, provide more freedom and convenience to match the customer needs.



EASY INSTALLATION AND SERVICE

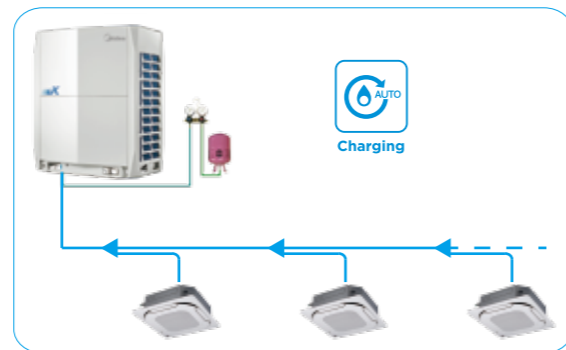
Auto Addressing

Outdoor units can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.



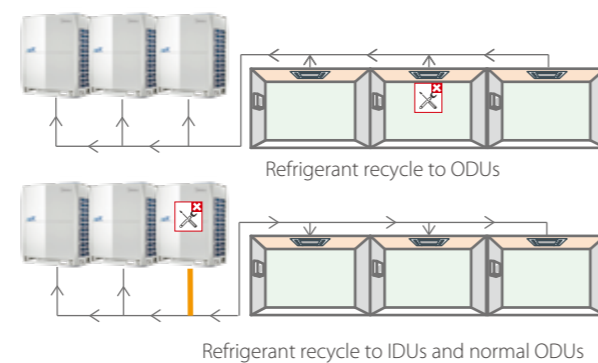
Automatic Refrigerant Charging

Automatic refrigerant charging makes installation and service easier and more efficient.



Automatic Refrigerant Recycling

The refrigerant can recycle to ODUs or IDUs and normal ODUs. Two recycling ways make the maintenance easier and more efficient.



Multi-Functional Diagnosis Box

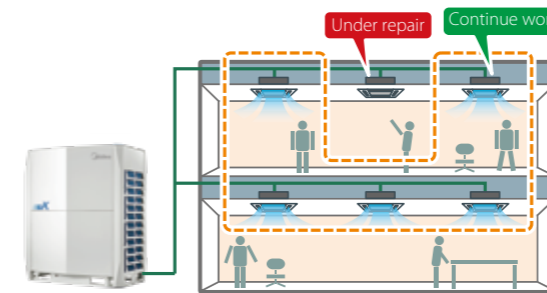
An multi-functional diagnosis box can be installed on the unit's side columns, enabling installation and service engineers to activate Auto-commissioning or check the operating status without removing the front panel. It can also perform automatic data backup of a maximum of 30 sets of error data.



Note: some units are equipped as standard; some units need to customize.

Maintenance Mode

The unit has maintenance mode which allows the shutdown of some indoor units without shutting down the whole VRF system. the maintenance mode can be activated on site during maintenance period as the remaining indoor units continue to operate.



Oil Balance pipe not required

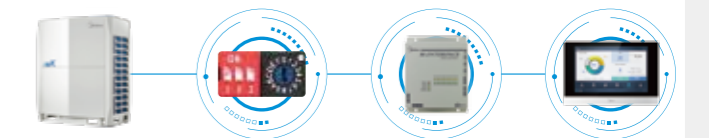
With the new oil management system, there is no need of oil balance pipe.



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.



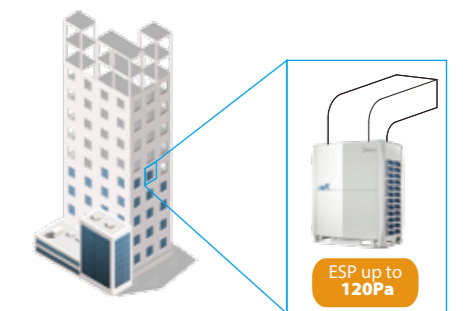
7-segment Digit Display

4 or 3 digit 7-segment display can easy read out of system check information and error code for quick and accurate inspection and diagnosis of the system.



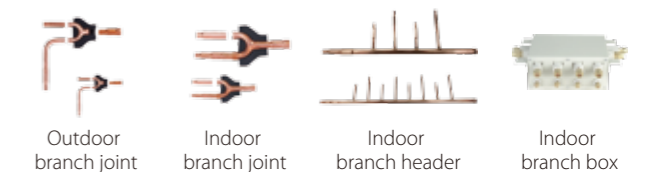
High External Static Pressure

The static pressure of the outdoor unit can be up to 120Pa which facilitates installation of the unit on each floor of high-rise building or on balconies.



Midea Unified Branch Piping

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



Note: Indoor branch box is only available for Mini VRF Series.

Indoor Units
VRF indoor units

Fresh Air Processing Unit
100% fresh air supply

Ventilation
Heat recovery ventilator (HRV)

AHU Connection Kit
Connect to Midea or third party DX AHU

Control Systems
Smart control systems



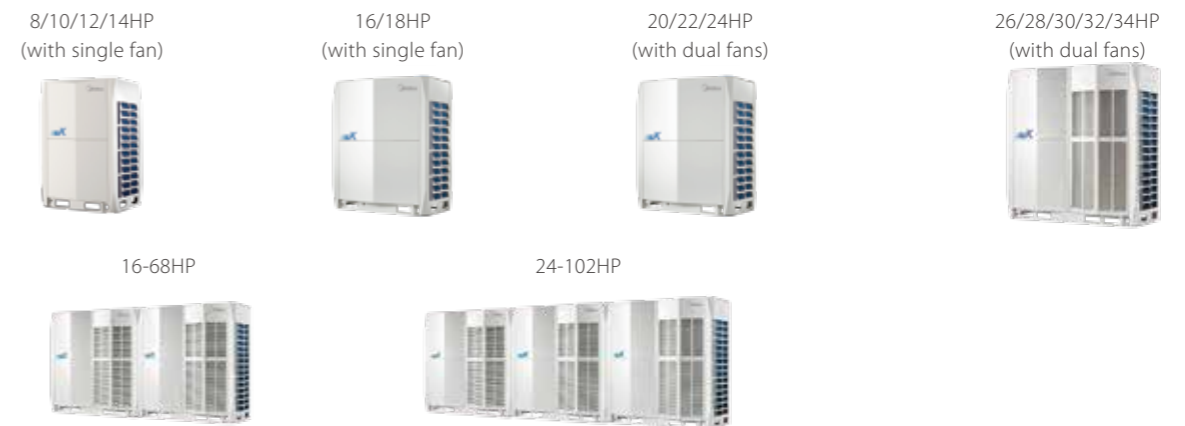
VRF VX Series Heat Pump

Optimized design for small to large buildings

- ▶ META Technology
- ▶ Zen Air Technology
- ▶ Doctor M Technology
- ▶ Enhanced Vapor Injection (EVI) Compressor
- ▶ Triple Configurations
- ▶ High Efficiency G-Shape Heat Exchanger
- ▶ ESP up to 120Pa
- ▶ 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
- ▶ Multi-Functional Diagnosis Box
- ▶ Automatic Refrigerant Detecting/Charging/Recycling

Wide Capacity Range

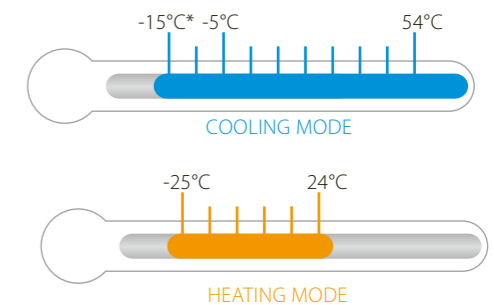
Starting at 8HP, capacity increases in 2HP increments up to 102HP, which is the world's largest single-system VRF capacity.



Wide Operating Temperature Range

The VX VRF can operate stably in a wide ambient temperature range: from -5°C (-15°C*) to 54°C in cooling mode and from -25°C to 24°C in heating mode.

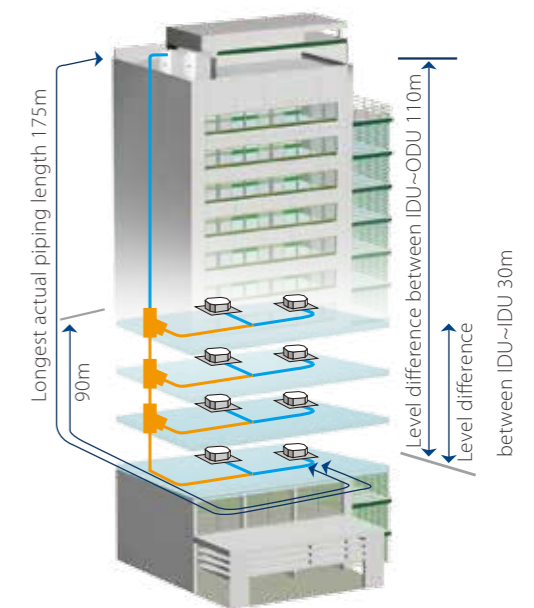
* Cooling operation at -15°C is available as a customization option.



Long Piping Capability

Piping length	Capability (m)
Total piping length	1000
Longest piping length-actual (equivalent)	175 (200)
Longest piping length after first branch	40/90*
Largest level difference between IDUs and ODU-ODU up (down)	90 (110)
Largest level difference between IDUs	30

*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 dealer for further information.



VRF VX Series - Heat Pump

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

HP			8	10	12	14
Model name			MVX-252WV2GN1	MVX-280WV2GN1	MVX-335WV2GN1	MVX-400WV2GN1
Power supply			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	5.30	6.21	7.77	9.50
	EER		4.75	4.51	4.31	4.21
Heating ²	Capacity	kW	27.0	31.5	37.5	45.0
		kBtu/h	92.1	107.5	128.0	153.5
	Power input	kW	4.82	5.92	7.55	9.57
	COP		5.60	5.32	4.97	4.70
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity				
	Maximum quantity	13	16	20	23	
Compressors	Type	DC inverter				
	Quantity	1				
Fan motors	Type	DC				
	Quantity	1				
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
Air flow rate		m ³ /h	11000			
Sound pressure level ⁴		dB(A)	58	58	60	60
Net dimensions (WxHxD)		mm	990x1635x790			
Packed dimensions (WxHxD)		mm	1090x1805x860			
Net weight		kg	227			
Gross weight		kg	242			
Ambient temp. operation range	Cooling	°C	-5 ~ 54			
	Heating	°C	-25 ~ 24			

HP			16	18
Model name			MVX-450WV2GN1	MVX-500WV2GN1
Power supply			380-415/3/50(60)	
Cooling ¹	Capacity	kW	45.0	50.0
		kBtu/h	153.5	170.6
	Power input	kW	10.92	12.20
	EER		4.12	4.10
Heating ²	Capacity	kW	50.0	56.0
		kBtu/h	170.6	191.1
	Power input	kW	10.87	12.44
	COP		4.60	4.50
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity		
	Maximum quantity	26		29
Compressors	Type	DC inverter		
	Quantity	1		
Fan motors	Type	DC		
	Quantity	1		
Refrigerant	Type	R410A		
	Factory charge	kg	13	
Pipe connections ³	Liquid pipe	mm	Φ15.9	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8
Air flow rate		m ³ /h	13000	
Sound pressure level ⁴		dB(A)	60	61
Net dimensions (WxHxD)		mm	1340x1635x850	
Packed dimensions (WxHxD)		mm	1405x1805x910	
Net weight		kg	277	
Gross weight		kg	304	
Ambient temp. operation range	Cooling	°C	-5 ~ 54	
	Heating	°C	-25 ~ 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 valve.
- 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 VX Series - Heat Pump

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

HP			20	22	24
Model name			MVX-560WV2GN1	MVX-615WV2GN1	MVX-670WV2GN1
Power supply			380-415/3/50(60)		
Cooling ¹	Capacity	kW	56.0	61.5	67.0
		kBtu/h	191.1	209.8	228.6
	Power input	kW	13.83	15.38	17.87
	EER		4.05	4.00	3.75
Heating ²	Capacity	kW	63.0	69.0	75.0
		kBtu/h	215.0	235.4	255.9
	Power input	kW	14.48	16.43	18.07
	COP		4.35	4.20	4.15
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity			
	Maximum quantity	33		36	39
Compressors	Type	DC inverter			
	Quantity	2			
Fan motors	Type	DC			
	Quantity	2			
Refrigerant	Type	R410A			
	Factory charge	kg	17		
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ31.8
	Gas pipe	mm	Φ31.8		Φ31.8
Air flow rate		m ³ /h	17000		
Sound pressure level ⁴		dB(A)	62	63	63
Net dimensions (WxHxD)		mm	1340x1635x825		
Packed dimensions (WxHxD)		mm	1405x1805x910		
Net weight		kg	348		
Gross weight		kg	368		
Ambient temp. operation range	Cooling	°C	-5 ~ 54		
	Heating	°C	-25 ~ 24		

HP			26	28	30
Model name			MVX-730WV2GN1	MVX-785WV2GN1	MVX-850WV2GN1
Power supply			380-415/3/50(60)		
Cooling ¹	Capacity	kW	73.0	78.5	85.0
		kBtu/h	249.1	267.8	290.0
	Power input	kW	18.48	20.13	22.91
	EER		3.95	3.90	3.71
Heating ²	Capacity	kW	81.5	87.5	95.0
		kBtu/h	278.1	298.6	324.1
	Power input	kW	18.15	19.98	22.09
	COP		4.49	4.38	4.30
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity			
	Maximum quantity	43		46	50
Compressors	Type	DC inverter			
	Quantity	2			
Fan motors	Type	DC			
	Quantity	2			
Refrigerant	Type	R410A			
	Factory charge	kg	22		
Pipe connections ³	Liquid pipe	mm	Φ22.2		Φ22.2
	Gas pipe	mm	Φ31.8		Φ38.1
Air flow rate		m ³ /h	25000		
Sound pressure level ⁴		dB(A)	64		
Net dimensions (WxHxD)		mm	1730x1830x850		
Packed dimensions (WxHxD)		mm	1800x2000x910		
Net weight		kg	430		
Gross weight		kg	453		
Ambient temp. operation range	Cooling	°C	-5 ~ 54		
	Heating	°C	-25 ~ 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 valve.
- 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 VX Series - Heat Pump

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

HP	32		34	
Model name	MVX-900WV2GN1		MVX-950WV2GN1	
Combination type	380-415/3/50(60)			
Power supply	V/N/Hz	380-415/3/50(60)		
Cooling ¹	Capacity	kW	90.0	95.0
		kBtu/h	307.1	324.1
	Power input	kW	24.66	27.14
	EER		3.65	3.50
Heating ²	Capacity	kW	100.0	106.0
		kBtu/h	341.2	361.7
	Power input	kW	23.36	26.37
	COP		4.28	4.02
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity		
	Maximum quantity	53		
Compressors	Type	DC inverter		
	Quantity	2		
Fan motors	Type	DC		
	Quantity	2		
Refrigerant	Type	R410A		
	Factory charge	kg	25	
Pipe connections ³	Liquid pipe	mm	Φ22.2	
	Gas pipe	mm	Φ38.1	
Air flow rate	m ³ /h	24000		
Sound pressure level ⁴	dB(A)	64		
Net dimensions (WxHxD)	mm	1730x1830x850		
Packed dimensions (WxHxD)	mm	1800x2000x910		
Net weight	kg	475		
Gross weight	kg	507		
Ambient temp.	Cooling	°C	-5 ~ 54	
operation range	Heating	°C	-25 ~ 24	

HP	36		38		40		42		
Model name	MVX-1005WV2GN1		MVX-1070WV2GN1		MVX-1120WV2GN1		MVX-1170WV2GN1		
Combination type	12HP+24HP		14HP+24HP		16HP+24HP		18HP+24HP		
Power supply	V/N/Hz	380-415/3/50(60)							
Cooling ¹	Capacity	kW	100.5	107.0	112.0	117.0			
		kBtu/h	342.9	365.1	382.1	399.2			
	Power input	kW	25.64	27.37	28.79	30.07			
	EER		3.92	3.91	3.89	3.89			
Heating ²	Capacity	kW	112.5	120.0	125.0	131.0			
		kBtu/h	383.9	409.4	426.5	447.0			
	Power input	kW	25.6	27.6	28.9	30.5			
	COP		4.39	4.34	4.32	4.29			
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity							
	Maximum quantity	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				
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ38.1				
	Gas pipe	mm	Φ38.1		Φ38.1				
Air flow rate	m ³ /h	28000		30000					
Sound pressure level ⁴	dB(A)	65							
Net dimensions (WxHxD)	mm	(990x1635x790)+(1340x1635x825)		(1340x1635x850)+(1340x1635x825)					
Packed dimensions (WxHxD)	mm	(1090x1805x860)+(1405x1805x910)		(1405x1805x910)x2					
Net weight	kg	227+348		277+348					
Gross weight	kg	242+368		304+368					
Ambient temp.	Cooling	°C	-5 ~ 54						
operation range	Heating	°C	-25 ~ 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 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 VX Series Engineering Data 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 VX Series - Heat Pump

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

HP	44		46		48		
Model name	MVX-1230WV2GN1		MVX-1285WV2GN1		MVX-1340WV2GN1		
Combination type	22HP+22HP		22HP+24HP		24HP+24HP		
Power supply	V/N/Hz	380-415/3/50(60)					
Cooling ¹	Capacity	kW	123.0	128.5	134.0		
		kBtu/h	419.7	438.4	457.2		
	Power input	kW	30.76	33.25	35.74		
	EER		3.75	3.86	3.75		
Heating ²	Capacity	kW	138.0	144.0	150.0		
		kBtu/h	470.9	491.3	511.8		
	Power input	kW	32.9	34.5	36.1		
	COP		4.20	4.17	4.15		
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity					
	Maximum quantity	64					
Compressors	Type	DC inverter					
	Quantity	4					
Fan motors	Type	DC					
	Quantity	4					
Refrigerant	Type	R410A					
	Factory charge	kg	17x2		17x2		
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ38.1		
	Gas pipe	mm	Φ38.1		Φ38.1		
Air flow rate	m ³ /h	34000					
Sound pressure level ⁴	dB(A)	66					
Net dimensions (WxHxD)	mm	(1340x1635x825)x2					
Packed dimensions (WxHxD)	mm	(1405x1805x910)x2					
Net weight	kg	348x2					
Gross weight	kg	368x2					
Ambient temp.	Cooling	°C	-5 ~ 54				
operation range	Heating	°C	-25 ~ 24				

HP	50		52		54		
Model name	MVX-1400WV2GN1		MVX-1455WV2GN1		MVX-1520WV2GN1		
Combination type	24HP+26HP		24HP+28HP		24HP+30HP		
Power supply	V/N/Hz	380-415/3/50(60)					
Cooling ¹	Capacity	kW	140.0	145.5	152.0		
		kBtu/h	477.7	496.4	518.6		
	Power input	kW	36.35	38.00	40.78		
	EER		3.85	3.83	3.73		
Heating ²	Capacity	kW	156.5	162.5	170.0		
		kBtu/h	534.0	554.5	580.0		
	Power input	kW	36.2	38.0	40.2		
	COP		4.32	4.27	4.23		
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity					
	Maximum quantity	64					
Compressors	Type	DC inverter					
	Quantity	4					
Fan motors	Type	DC					
	Quantity	4					
Refrigerant	Type	R410A					
	Factory charge	kg	17+22		17+22		
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ38.1		
	Gas pipe	mm	Φ38.1		Φ38.1		
Air flow rate	m ³ /h	42000					
Sound pressure level ⁴	dB(A)	66					
Net dimensions (WxHxD)	mm	(1340x1635x825)+(1730x1830x850)					
Packed dimensions (WxHxD)	mm	(1405x1805x910)+(1800x2000x910)					
Net weight	kg	348+430					
Gross weight	kg	368+453					
Ambient temp.	Cooling	°C	-5 ~ 54				
operation range	Heating	°C	-25 ~ 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 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 VX Series Engineering Data 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 VX Series - Heat Pump

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

HP	56		58		60		62		
Model name	MVX-1570WV2GN1		MVX-1635WV2GN1		MVX-1700WV2GN1		MVX-1750WV2GN1		
Combination type	28HP+28HP		28HP+30HP		30HP+30HP		30HP+32HP		
Power supply	V/N/Hz		380-415/3/50(60)						
Cooling ¹	Capacity	kW	157.0	163.5	170.0	175.0			
		kBtu/h	535.7	557.9	580.0	597.1			
	Power input	kW	40.26	43.04	45.82	47.57			
	EER		3.90	3.80	3.71	3.68			
Heating ²	Capacity	kW	175.0	182.5	190.0	195.0			
		kBtu/h	597.1	622.7	648.3	665.3			
	Power input	kW	40.0	42.1	44.2	45.5			
	COP		4.38	4.34	4.30	4.29			
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity							
	Maximum quantity	64							
Compressors	Type	DC inverter							
	Quantity	4							
Fan motors	Type	DC							
	Quantity	4							
	Static pressure	Pa	0-20 (default); 20-60 (customized)						
Refrigerant	Type	R410A							
	Factory charge	kg	22x2				22+25		
Pipe connections ³	Liquid pipe	mm	Φ19.1						
	Gas pipe	mm	Φ41.3						
Air flow rate	m ³ /h	50000				49000			
Sound pressure level ⁴	dB(A)	67							
Net dimensions (WxHxD)	mm	(1730x1830x850)x2							
Packed dimensions (WxHxD)	mm	(1800x2000x910)x2							
Net weight	kg	430x2				430+475			
Gross weight	kg	453x2				453+507			
Ambient temp. operation range	Cooling	°C	-5 ~ 54						
	Heating	°C	-25 ~ 24						

HP	64		66		68		
Model name	MVX-1800WV2GN1		MVX-1850WV2GN1		MVX-1900WV2GN1		
Combination type	30HP+34HP		32HP+34HP		34HP+34HP		
Power supply	V/N/Hz		380-415/3/50(60)				
Cooling ¹	Capacity	kW	180.0	185.0	190.0		
		kBtu/h	614.2	631.2	648.3		
	Power input	kW	50.05	51.80	54.29		
	EER		3.60	3.57	3.50		
Heating ²	Capacity	kW	201.0	206.0	212.0		
		kBtu/h	685.8	702.9	723.3		
	Power input	kW	48.5	49.7	52.7		
	COP		4.15	4.14	4.02		
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity					
	Maximum quantity	64					
Compressors	Type	DC inverter					
	Quantity	4					
Fan motors	Type	DC					
	Quantity	4					
	Static pressure	Pa	0-20 (default); 20-60 (customized)				
Refrigerant	Type	R410A					
	Factory charge	kg	22+25		25x2		
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ22.2		
	Gas pipe	mm	Φ41.3		Φ44.5		
Air flow rate	m ³ /h	49000		48000			
Sound pressure level ⁴	dB(A)	67					
Net dimensions (WxHxD)	mm	(1730x1830x850)x2					
Packed dimensions (WxHxD)	mm	(1800x2000x910)x2					
Net weight	kg	430+475		475x2			
Gross weight	kg	453+507		507x2			
Ambient temp. operation range	Cooling	°C	-5 ~ 54				
	Heating	°C	-25 ~ 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 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 VX Series Engineering Data 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 VX Series - Heat Pump

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

HP	70		72	
Model name	MVX-1955WV2GN1		MVX-2020WV2GN1	
Combination type	12HP+24HP+34HP		14HP+24HP+34HP	
Power supply	V/N/Hz		380-415/3/50(60)	
Cooling ¹	Capacity	kW	195.5	202.0
		kBtu/h	667.0	689.2
	Power input	kW	52.79	54.51
	EER		3.70	3.71
Heating ²	Capacity	kW	218.5	226.0
		kBtu/h	745.5	771.1
	Power input	kW	52.0	54.0
	COP		4.20	4.18
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity		
	Maximum quantity	64		
Compressors	Type	DC inverter		
	Quantity	5		
Fan motors	Type	DC		
	Quantity	5		
	Static pressure	Pa	0-20 (default); 20-60 (customized)	
Refrigerant	Type	R410A		
	Factory charge	kg	11+17+25	
Pipe connections ³	Liquid pipe	mm	Φ22.2	
	Gas pipe	mm	Φ44.5	
Air flow rate	m ³ /h	52000		
Sound pressure level ⁴	dB(A)	68		
Net dimensions (WxHxD)	mm	(990x1635x790)+(1340x1635x825)+(1730x1830x850)		
Packed dimensions (WxHxD)	mm	(1090x1805x860)+(1405x1805x910)+(1800x2000x910)		
Net weight	kg	227+348+475		
Gross weight	kg	242+368+507		
Ambient temp. operation range	Cooling	°C	-5 ~ 54	
	Heating	°C	-25 ~ 24	

HP	74		76	
Model name	MVX-2070WV2GN1		MVX-2120WV2GN1	
Combination type	16HP+24HP+34HP		18HP+24HP+34HP	
Power supply	V/N/Hz		380-415/3/50(60)	
Cooling ¹	Capacity	kW	207.0	212.0
		kBtu/h	706.3	723.3
	Power input	kW	54.82	57.21
	EER		3.70	3.71
Heating ²	Capacity	kW	231.0	237.0
		kBtu/h	788.2	808.6
	Power input	kW	55.3	56.9
	COP		4.18	4.17
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity		
	Maximum quantity	64		
Compressors	Type	DC inverter		
	Quantity	5		
Fan motors	Type	DC		
	Quantity	5		
	Static pressure	Pa	0-20 (default); 20-60 (customized)	
Refrigerant	Type	R410A		
	Factory charge	kg	13+17+25	
Pipe connections ³	Liquid pipe	mm	Φ22.2	
	Gas pipe	mm	Φ44.5	
Air flow rate	m ³ /h	54000		
Sound pressure level ⁴	dB(A)	68		
Net dimensions (WxHxD)	mm	(1340x1635x850)+(1340x1635x825)+(1730x1830x850)		
Packed dimensions (WxHxD)	mm	(1405x1805x910)x2+(1800x2000x910)		
Net weight	kg	277+348+475		
Gross weight	kg	304+368+507		
Ambient temp. operation range	Cooling	°C	-5 ~ 54	
	Heating	°C	-23 ~ 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 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 VX Series Engineering Data 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 VX Series - Heat Pump

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

HP	78		80		82	
Model name	MVX-2180WV2GN1		MVX-2235WV2GN1		MVX-2290WV2GN1	
Combination type	22HP+22HP+34HP		22HP+24HP+34HP		24HP+24HP+34HP	
Power supply	V/N/Hz		380-415/3/50(60)			
Cooling ¹	Capacity	kW	218.0	223.5	229.0	
		kBtu/h	743.8	762.6	781.3	
	Power input	kW	57.90	60.39	62.88	
	EER		3.76	3.70	3.78	
Heating ²	Capacity	kW	244.0	250.0	256.0	
		kBtu/h	832.5	853.0	873.5	
	Power input	kW	59.2	60.9	62.5	
	COP		4.12	4.11	4.10	
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity				
	Maximum quantity	64				
Compressors	Type	DC inverter				
	Quantity	6				
Fan motors	Type	DC				
	Quantity	6				
Refrigerant	Type	R410A				
	Factory charge	kg	17x2+25			
Pipe connections ³	Liquid pipe	mm	Φ22.2			
	Gas pipe	mm	Φ44.5			
Air flow rate	m ³ /h		58000			
Sound pressure level ⁴	dB(A)		69			
Net dimensions (WxHxD)	mm		(1340x1635x825)x2+(1730x1830x850)			
Packed dimensions (WxHxD)	mm		(1405x1805x910)x2+(1800x2000x910)			
Net weight	kg		348x2+475			
Gross weight	kg		368x2+507			
Ambient temp. operation range	Cooling	°C	-5 ~ 54			
	Heating	°C	-25 ~ 24			

HP	84		86		88	
Model name	MVX-2350WV2GN1		MVX-2405WV2GN1		MVX-2470WV2GN1	
Combination type	24HP+26HP+34HP		24HP+28HP+34HP		24HP+30HP+34HP	
Power supply	V/N/Hz		380-415/3/50(60)			
Cooling ¹	Capacity	kW	235.0	240.5	247.0	
		kBtu/h	801.8	820.6	842.8	
	Power input	kW	63.49	65.14	67.92	
	EER		3.70	3.69	3.64	
Heating ²	Capacity	kW	262.5	268.5	276.0	
		kBtu/h	895.7	916.1	941.7	
	Power input	kW	62.6	64.4	66.5	
	COP		4.19	4.17	4.15	
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity				
	Maximum quantity	64				
Compressors	Type	DC inverter				
	Quantity	6				
Fan motors	Type	DC				
	Quantity	6				
Refrigerant	Type	R410A				
	Factory charge	kg	17+22+25			
Pipe connections ³	Liquid pipe	mm	Φ25.4			
	Gas pipe	mm	Φ50.8			
Air flow rate	m ³ /h		66000			
Sound pressure level ⁴	dB(A)		69			
Net dimensions (WxHxD)	mm		(1340x1635x825)+(1730x1830x850)x2			
Packed dimensions (WxHxD)	mm		(1405x1805x910)+(1800x2000x910)x2			
Net weight	kg		348+430+475			
Gross weight	kg		368+453+507			
Ambient temp. operation range	Cooling	°C	-5 ~ 54			
	Heating	°C	-25 ~ 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 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 VX Series Engineering Data 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 VX Series - Heat Pump

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

HP	90		92		94		96		
Model name	MVX-2520WV2GN1		MVX-2585WV2GN1		MVX-2650WV2GN1		MVX-2700WV2GN1		
Combination type	28HP+28HP+34HP		28HP+30HP+34HP		30HP+30HP+34HP		30HP+32HP+34HP		
Power supply	V/N/Hz		380-415/3/50(60)						
Cooling ¹	Capacity	kW	252.0	258.5	265.0		270.0		
		kBtu/h	859.8	882.0	904.2		921.2		
	Power input	kW	67.40	70.18	72.96		74.71		
	EER		3.74	3.68	3.63		3.61		
Heating ²	Capacity	kW	281.0	288.5	296.0		301.0		
		kBtu/h	958.8	984.4	1010.0		1027.0		
	Power input	kW	66.3	68.4	70.6		71.8		
	COP		4.24	4.22	4.20		4.19		
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity							
	Maximum quantity	64							
Compressors	Type	DC inverter							
	Quantity	6							
Fan motors	Type	DC							
	Quantity	6							
Refrigerant	Type	R410A							
	Factory charge	kg	22x2+25				22+25x2		
Pipe connections ³	Liquid pipe	mm	Φ25.4						
	Gas pipe	mm	Φ50.8						
Air flow rate	m ³ /h		74000				73000		
Sound pressure level ⁴	dB(A)		70						
Net dimensions (WxHxD)	mm		(1730x1830x850)x3						
Packed dimensions (WxHxD)	mm		(1800x2000x910)x3						
Net weight	kg		430x2+475				430+475x2		
Gross weight	kg		453x2+507				453+507x2		
Ambient temp. operation range	Cooling	°C	-5 ~ 54						
	Heating	°C	-25 ~ 24						

HP	98		100		102		
Model name	MVX-2750WV2GN1		MVX-2800WV2GN1		MVX-2850WV2GN1		
Combination type	30HP+34HP+34HP		32HP+34HP+34HP		34HP+34HP+34HP		
Power supply	V/N/Hz		380-415/3/50(60)				
Cooling ¹	Capacity	kW	275.0	280.0	285.0		
		kBtu/h	938.3	955.4	972.4		
	Power input	kW	77.20	78.94	81.43		
	EER		3.56	3.55	3.50		
Heating ²	Capacity	kW	307.0	312.0	318.0		
		kBtu/h	1047.5	1064.5	1085.0		
	Power input	kW	74.8	76.1	79.1		
	COP		4.10	4.10	4.02		
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity					
	Maximum quantity	64					
Compressors	Type	DC inverter					
	Quantity	6					
Fan motors	Type	DC					
	Quantity	6					
Refrigerant	Type	R410A					
	Factory charge	kg	22+25x2		25x3		
Pipe connections ³	Liquid pipe	mm	Φ25.4				
	Gas pipe	mm	Φ50.8				
Air flow rate	m ³ /h		73000		72000		
Sound pressure level ⁴	dB(A)		71				
Net dimensions (WxHxD)	mm		(1730x1830x850)x3				
Packed dimensions (WxHxD)	mm		(1800x2000x910)x3				
Net weight	kg		430+475x2		475x3		
Gross weight	kg		453+507x2		507x3		
Ambient temp. operation range	Cooling	°C	-5 ~ 54				
	Heating	°C	-25 ~ 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 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 VX Series Engineering Data 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 Midea or third party DX AHU

Control Systems
Smart control systems



VRF VX-i Series Heat Pump

Optimized design
for middle-sized
buildings

- ▶ META Technology
- ▶ Zen Air Technology
- ▶ Doctor M Technology
- ▶ Enhanced Vapor Injection (EVI) Compressor
- ▶ Triple Configurations
- ▶ High Efficiency G-Shape Heat Exchanger
- ▶ ESP up to 120Pa
- ▶ Plate Heat (PHE) Subcooling
- ▶ Precise Oil Control Technology
- ▶ Multi Silent Modes
- ▶ Backup Operation
- ▶ UL Anti-Corrosion Certificate
- ▶ Refrigerant Cooling PCB
- ▶ Auto Snow-blowing Function
- ▶ Dust-clean Function
- ▶ Optional Multi-Functional Diagnosis Box
- ▶ Automatic Refrigerant Detecting/Charging/Recycling

Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 34HP, which is the world's largest single VRF unit capacity.

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



16/18/20HP
(with single fan)



22/24HP
(with dual fans)



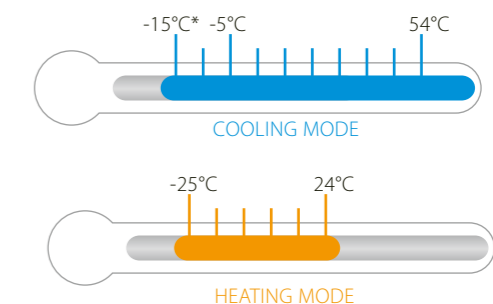
26/28/30/32/34HP
(with dual fans)



Wide Operating Temperature Range

The VX-i VRF can operate stably in a wide ambient temperature range: from -5°C (-15°C*) to 54°C in cooling mode and from -25°C to 24°C in heating mode.

* Cooling operation at -15°C is available as a customization option.



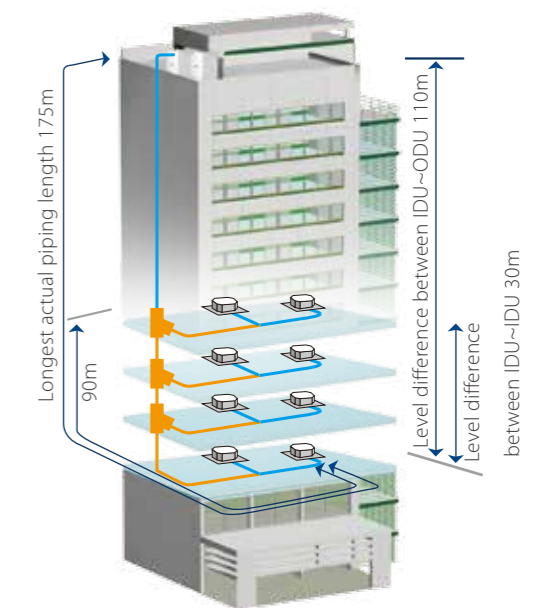
Top-discharge type

* Cooling operation at -15°C is available as a customization option.

Long Piping Capability

Piping length	Capability (m)
Total piping length	1000
Longest piping length-actual (equivalent)	175 (200)
Longest piping length after first branch	40/90*
Largest level difference between IDUs and ODU-ODU up (down)	90 (110)
Largest level difference between IDUs	30

*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 dealer for further information.



VRF VX-i Series - Heat Pump

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

HP			8	10	12	14
Model name			MXV-i252WV2GN1	MXV-i280WV2GN1	MXV-i335WV2GN1	MXV-i400WV2GN1
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	5.79	7.20	8.93	10.96
	EER		4.35	3.89	3.75	3.65
Heating ²	Capacity	kW	27.0	31.5	37.5	45.0
		kBtu/h	92.1	107.5	128.0	153.5
	Power input	kW	5.19	6.18	8.43	10.98
	COP		5.20	5.10	4.45	4.10
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity			
	Maximum quantity		13	16	20	23
Compressors	Type		DC inverter			
	Quantity		1			
Fan motors	Motor type		DC			
	Quantity		1			
	Static pressure		Pa 0-20 (default); 20-60 (customized)			
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
Air flow rate		m ³ /h	11000			
Sound pressure level ⁴		dB(A)	58	58	60	60
Net dimensions (WxHxD)		mm	990x1635x790			
Packed dimensions (WxHxD)		mm	1090x1805x860			
Net weight		kg	227			
Gross weight		kg	242			
Ambient temp. operation range	Cooling	°C	-5 ~ 54			
	Heating	°C	-25 ~ 24			

HP			16	18	20
Model name			MXV-i450WV2GN1	MXV-i500WV2GN1	MXV-i560WV2GN1
Power supply			V/N/Hz 380-415/3/50(60)		
Cooling ¹	Capacity	kW	45.0	50.0	56.0
		kBtu/h	153.5	170.6	191.1
	Power input	kW	13.04	14.71	16.47
	EER		3.45	3.40	3.40
Heating ²	Capacity	kW	50.0	56.0	63.0
		kBtu/h	170.6	191.1	215.0
	Power input	kW	11.90	13.66	15.75
	COP		4.20	4.10	4.00
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		26	29	33
Compressors	Type		DC inverter		
	Quantity		1		
Fan motors	Motor type		DC		
	Quantity		1		
	Static pressure		Pa 0-20 (default); 20-60 (customized)		
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
Air flow rate		m ³ /h	13000		
Sound pressure level ⁴		dB(A)	60	61	62
Net dimensions (WxHxD)		mm	1340x1635x850		
Packed dimensions (WxHxD)		mm	1405x1805x910		
Net weight		kg	277		295
Gross weight		kg	304		322
Ambient temp. operation range	Cooling	°C	-5 ~ 54		
	Heating	°C	-25 ~ 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 valve.
 - 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 VX-i Series - Heat Pump

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

HP			22	24
Model name			MXV-i615WV2GN1	MXV-i670WV2GN1
Power supply			V/N/Hz 380-415/3/50(60)	
Cooling ¹	Capacity	kW	61.5	67.0
		kBtu/h	209.8	228.6
	Power input	kW	19.04	21.61
	EER		3.23	3.10
Heating ²	Capacity	kW	69.0	75.0
		kBtu/h	235.4	255.9
	Power input	kW	18.02	20.00
	COP		3.83	3.75
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	
	Maximum quantity		36	39
Compressors	Type		DC inverter	
	Quantity		2	
Fan motors	Motor type		DC	
	Quantity		2	
	Static pressure		Pa 0-20 (default); 20-60 (customized)	
Refrigerant	Type		R410A	
	Factory charge		kg 17	
Pipe connections ³	Liquid pipe	mm	Φ19.1	
	Gas pipe	mm	Φ31.8	
Air flow rate		m ³ /h	17000	
Sound pressure level ⁴		dB(A)	63	
Net dimensions (WxHxD)		mm	1340x1635x825	
Packed dimensions (WxHxD)		mm	1405x1805x910	
Net weight		kg	344	
Gross weight		kg	364	
Ambient temp. operation range	Cooling	°C	-5 ~ 54	
	Heating	°C	-25 ~ 24	

HP			26	28	30	32	34
Model name			MXV-i730WV2GN1	MXV-i785WV2GN1	MXV-i850WV2GN1	MXV-i900WV2GN1	MXV-i950WV2GN1
Power supply			V/N/Hz 380-415/3/50(60)				
Cooling ¹	Capacity	kW	73.0	78.5	85.0	90.0	95.0
		kBtu/h	249.1	267.8	290.0	307.1	324.1
	Power input	kW	21.47	24.01	27.42	28.48	30.65
	EER		3.40	3.27	3.10	3.16	3.10
Heating ²	Capacity	kW	81.5	87.5	95.0	100.0	106.0
		kBtu/h	278.1	298.6	324.1	341.2	361.7
	Power input	kW	20.63	24.31	27.14	29.41	32.12
	COP		3.95	3.60	3.50	3.40	3.30
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity				
	Maximum quantity		43	46	50	53	56
Compressors	Type		DC inverter				
	Quantity		2				
Fan motors	Motor type		DC				
	Quantity		2				
	Static pressure		Pa 0-20 (default); 20-60 (customized)				
Refrigerant	Type		R410A				
	Factory charge		kg 22		kg 25		
Pipe connections ³	Liquid pipe	mm	Φ22.2			Φ38.1	
	Gas pipe	mm	Φ31.8		Φ38.1		
Air flow rate		m ³ /h	25000			24000	
Sound pressure level ⁴		dB(A)	64				
Net dimensions (WxHxD)		mm	1730x1830x850				
Packed dimensions (WxHxD)		mm	1800x2000x910				
Net weight		kg	407	429	475		
Gross weight		kg	430	452	507		
Ambient temp. operation range	Cooling	°C	-5 ~ 54				
	Heating	°C	-25 ~ 24				

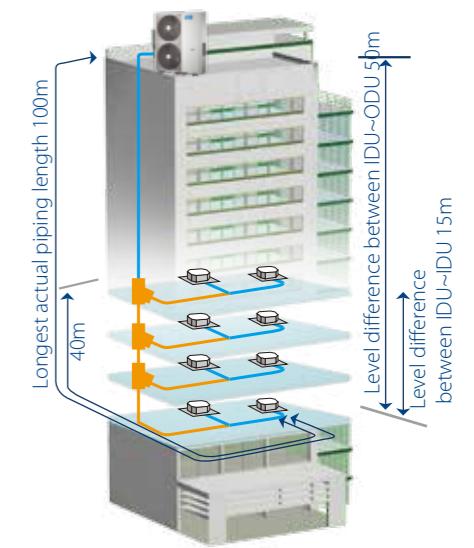
- Notes:
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Diameters given are those of the unit's stop valve.
 - 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
-  **Ventilation**
Heat recovery ventilator (HRV)
-  **Control Systems**
Smart control systems
-  **AHU Connection Kit**
Connect to Midea or third party DX AHU



Long Piping Capability

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



VRF V4 Plus I Series Heat Pump

Optimized design for small and medium-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)		380-415/3/50		
Cooling ¹	Capacity	20.0	22.4	26.0	28.0	33.5	40.0	45.0	
	Power input	6.1	6.8	7.6	6.83	9.2	11.9	13.6	
	EER	3.28	3.29	3.42	4.10	3.64	3.35	3.32	
Heating ²	Capacity	22.0	24.5	28.5	31.5	37.5	45.0	50.0	
	Power input	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				2			
Fan motor	Type	DC motor					DC motor + AC motor		
	Quantity	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	Φ9.53	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 ³	dB(A)	59	59	60	59	61	62	62	
Net dimension (WxHxD)	mm	1120x1558x528					1360x1650x540		1460x1650x540
Packing size (WxHxD)	mm	1270x1720x565					1450x1785x560		1550x1785x560
Net weight	kg	137	146.5	147	157	173	240	275	
Gross weight	kg	153	162.5	163	173	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:
 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 at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Indoor Units
VRF indoor units

Ventilation
Heat recovery ventilator (HRV)

Control Systems
Smart control systems

AHU Connection Kit
Connect to Midea or third party DX AHU



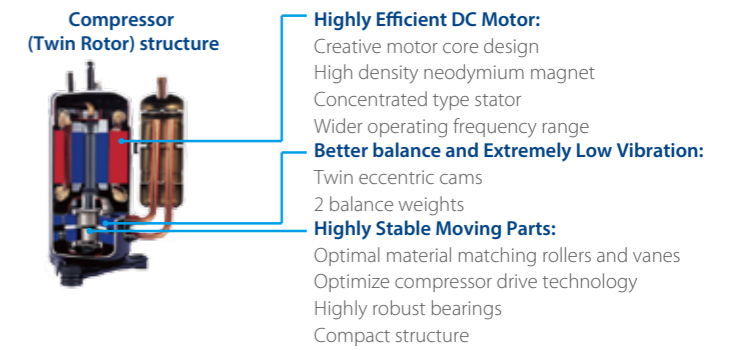
VRF Mini Series Heat Pump

Optimized design for small buildings

- ▶ Two Options: Standard and Mini C Series
- ▶ Capacity Up to 18kw
- ▶ Connectable Indoor Units Quantity up to 9
- ▶ Refrigerant Cooling PCB (Available for Mini C Series Only)
- ▶ Precise Oil Control Technology
- ▶ Advanced Silence Technology
- ▶ Compact, Easy Installation

DC Inverter Compressor

DC inverter compressor makes the output of the outdoor unit to be modulated by the cooling or heating demands of the zone that it controls. This advanced system ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the limiting the impact on the environment.



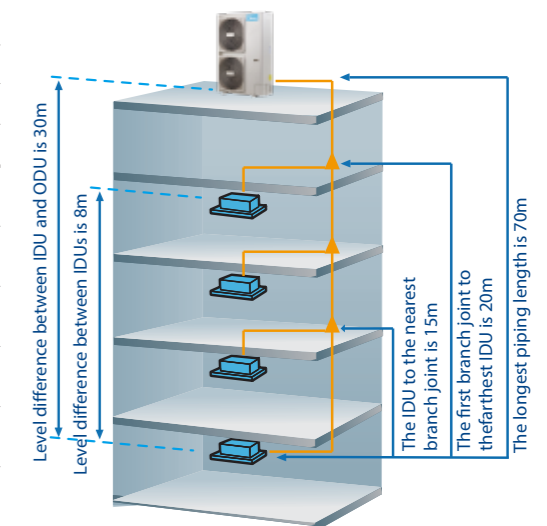
Wide Capacity Range

Mini VRF has two options, standard series and Mini C series. For standard series, it has 6 models from 8kW to 18kW. For Mini C series, it has 5 models from 8kW to 16kW. The Mini VRF is perfect for commercial and residential applications: small offices, villas, apartments, shops, etc.

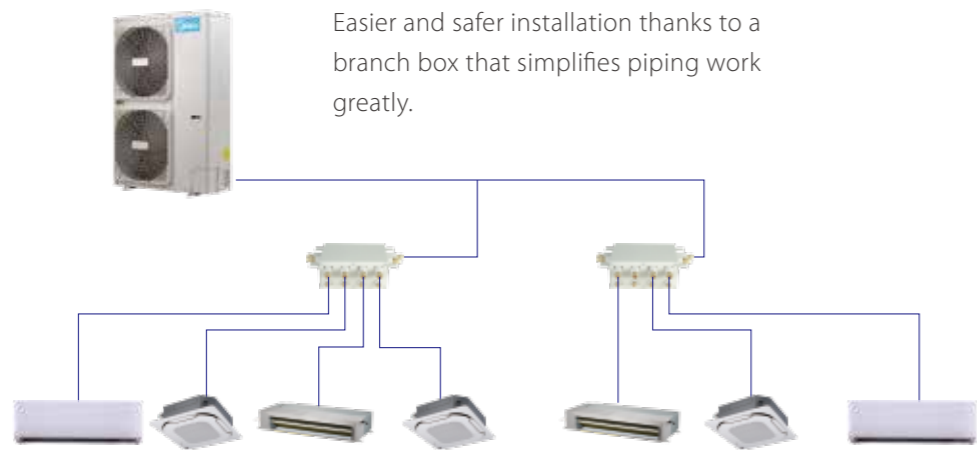
Mini C series			Standard series	
8kW	10-12kW	14-16kW	8-10kW	12-18kW

Long Piping Capability

Piping length	Capability (m)				
	Mini C series			Standard series	
	8kW	10-12kW	14-16kW	8-10kW	12-18kW
Total piping length	50	65	100	100	100
Longest piping length-actual (equivalent)	35 (40)	45 (50)	60 (70)	45 (50)	60 (70)
Longest piping length after first branch	20	20	20	20	20
Longest piping length after nearest branch	15	15	15	15	15
Largest level difference between IDUs and ODU-ODU up (down)	10 (10)	20 (20)	30 (20)	30 (20)	30 (20)
Largest level difference between IDUs	8	8	8	8	8

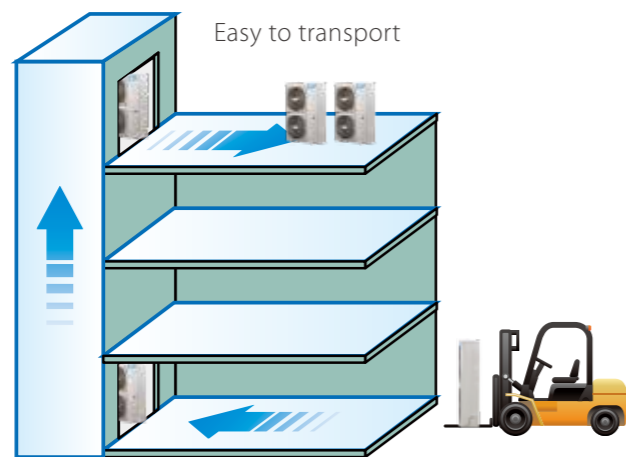


More Convenient Piping Connector – Branch Box

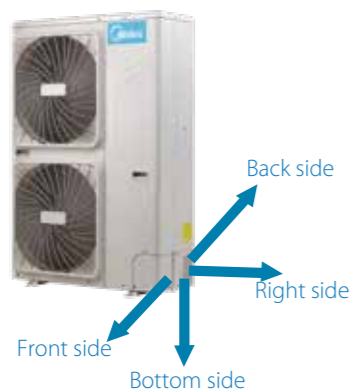


Easy Installation

The mini VRF can be transported by elevator which makes installation dramatically easy, and effectively reduces time and labor thanks to the small size.



Four-Way Piping Connection



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

Mini VRF (Standard Series) - Heat Pump

220~240V, 1N, 50Hz

HP			3	4	4.5	5	6	
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 ¹	Capacity	kW	7.2	9.0	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 ²	Capacity	kW	7.2	9.0	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 charge	kg	2.95		3.3	3.9	3.9	
Pipe connections	Liquid pipe	mm	Φ9.53					
	Gas pipe	mm	Φ15.9				Φ19.1	
Airflow rate	m ³ /h	5500			6000			
Sound pressure level ³	dB(A)	56			57			
Net dimensions (WxHxD)	mm	1075x966x396			900x1327x400			
Packed dimensions (WxHxD)	mm	1120x1100x435			1030x1456x435			
Net weight	kg	75.5			95		100	
Gross weight	kg	85.5			106		111	
Operating temperature range	°C	Cooling: -15~43; Heating: -15~27						

380~415V, 3N, 50Hz

HP			4.5	5	6	6.5
Model			MDV-V120W/DRN1	MDV-V140W/DRN1	MDV-V160W/DRN1	MDV-V180W/DRN1
Power supply			V/N/Hz 380-415/3/50			
Cooling ¹	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 ²	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 charge	kg	3.3	3.9	3.9	4.5
Pipe connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9			Φ19.1
Airflow rate	m ³ /h	6000				6800
Sound pressure level ³	dB(A)	57				59
Net dimensions (WxHxD)	mm	900x1327x400				
Packed dimensions (WxHxD)	mm	1030x1456x435				
Net weight	kg	95		102		107
Gross weight	kg	106		113		118
Operating temperature range	°C	Cooling: -15~43; Heating: -15~27				

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 at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Mini VRF (Standard Series) - Heat Pump

208~230V, 1N, 60Hz

HP			4	4.5	5	6
Model			MDV-V105W/DVN1	MDV-V120W/DVN1	MDV-V140W/DVN1	MDV-V160W/DVN1
Power supply		V/N/Hz	208-230/1/60			
Cooling ¹	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 ²	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 charge	kg	3	3.3	3.9	3.9
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ19.1
Airflow rate			5100	6000	6000	6000
Sound pressure level ³	dB(A)		57	57	57	57
Net dimensions (WxHxD)	mm		1075x966x396	900x1327x400	900x1327x400	900x1327x400
Packed dimensions (WxHxD)	mm		1120x1100x435	1030x1456x435	1030x1456x435	1030x1456x435
Net weight	kg		78	95	95	102
Gross weight	kg		85	106	106	113
Operating temperature range			°C Cooling -15~43°C; Heating -15~27°C			

380~415V, 3N, 60Hz

HP			4.5	5	6
Model			MDV-V120W/DCN1	MDV-V140W/DCN1	MDV-V160W/DCN1
Power supply		V/N/Hz	380-415/3/60		
Cooling ¹	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 ²	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 charge	kg	3.3	3.9	3.9
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53
	Gas pipe	mm	Φ15.9	Φ15.9	Φ19.1
Airflow rate	m ³ /h		6983	6500	6000
Sound pressure level ³	dB(A)		57	57	57
Net dimensions (WxHxD)	mm		900x1327x400		
Packed dimensions (WxHxD)	mm		1030x1456x435		
Net weight	kg		92	95	102
Gross weight	kg		106	106	113
Operating temperature range			°C Cooling -15~43°C; Heating -15~27°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.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Mini VRF (Mini C series) - Heat Pump

220~240V, 1N, 50(60)Hz

HP			3	4	4.5
Model			MDV-V80W/DHN1(C)	MDV-V100W/DHN1(C)	MDV-V120W/DHN1(C)
Power supply		V/N/Hz	220-240/1/ 50(60)		
Cooling ¹	Capacity	kW	8.0	10.0	12.0
		kBtu/h	27.3	34.1	40.9
	Power input	kW	2	2.55	3.1
	EER		4	3.92	3.87
Heating ²	Capacity	kW	9.0	12.0	14.0
		kBtu/h	30.7	40.9	47.8
	Power input	kW	1.95	2.97	3.45
	COP		4.62	4.04	4.06
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity		
	Max. quantity		4	6	7
Compressor	Type		DC inverter		
	Quantity		1		
Fan motor	Type		DC		
	Quantity		1		
Refrigerant	Type		R410A		
	Factory charge	kg	2.2	2.35	3
Pipe connections ³	Liquid pipe	mm	Φ9.53		
	Gas pipe	mm	Φ15.9		
Airflow rate	m ³ /h		3700	5200	5000
Sound pressure level	dB(A)		54	54	56
Net dimensions (WxHxD)	mm		982x712x440	950x840x426	
Packed dimensions (WxHxD)	mm		1048x810x485	1025x950x510	
Net weight	kg		53	71.5	83
Gross weight	kg		57.5	81	92
Operating temperature range			°C Cooling: -5~55, Heating: -15~27		

HP			5	6
Model			MDV-V140W/DHN1(C)	MDV-V160W/DHN1(C)
Power supply		V/N/Hz	220-240/1/ 50(60)	
Cooling ¹	Capacity	kW	14.0	15.5
		kBtu/h	47.8	52.9
	Power input	kW	3.75	4.8
	EER		3.73	3.23
Heating ²	Capacity	kW	16.0	18.0
		kBtu/h	54.6	61.4
	Power input	kW	3.85	4.65
	COP		4.16	3.87
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity	
	Max. quantity		8	9
Compressor	Type		DC inverter	
	Quantity		1	
Fan motor	Type		DC	
	Quantity		1	
Refrigerant	Type		R410A	
	Factory charge	kg	3.4	3.8
Pipe connections ³	Liquid pipe	mm	Φ9.53	
	Gas pipe	mm	Φ15.9	
Airflow rate	m ³ /h		5400	5200
Sound pressure level	dB(A)		56	56
Net dimensions (WxHxD)	mm		1040x865x523	
Packed dimensions (WxHxD)	mm		1120x980x560	
Net weight	kg		90.4	94.4
Gross weight	kg		100.4	104.4
Operating temperature range			°C Cooling: -5~55, Heating: -15~27	

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.
- Sound pressure level is measured at a position 1m in front of the unit and 1m 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 Midea or third party DX AHU

Control Systems
Smart control systems



VRF V6R Series Heat Recovery

Offers simultaneous cooling and heating operation in one system

- ▶ META Technology
- ▶ Zen Air Technology
- ▶ Doctor M Technology
- ▶ Enhanced Vapor Injection (EVI) Compressor
- ▶ Triple Configurations
- ▶ ESP up to 80Pa
- ▶ Plate Heat (PHE) Subcooling
- ▶ Precise Oil Control Technology
- ▶ Multi Silent Modes
- ▶ Duty Cycling
- ▶ Backup Operation
- ▶ Refrigerant Cooling PCB
- ▶ Auto Snow-blowing Function
- ▶ Dust-clean Function
- ▶ Standard Multi-Functional Diagnosis Box
- ▶ Automatic Refrigerant Detecting/Charging/Recycling

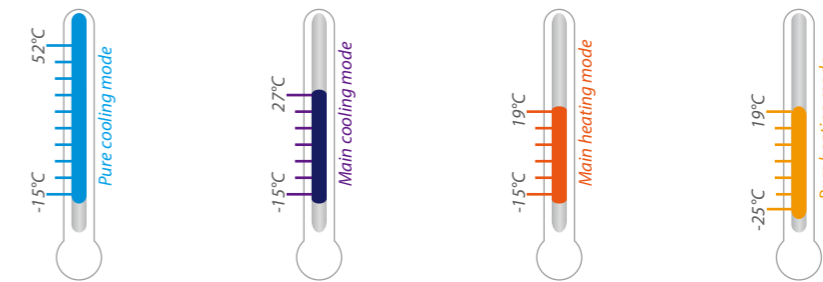
Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 60HP, which is perfect for small to large buildings.



Wide Operation Range

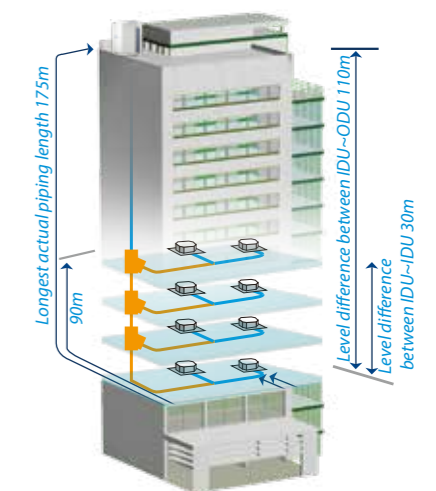
The V6R VRF system has a wide operation range in cooling mode, heating mode and simultaneous cooling and heating mode.



Long Piping Capability

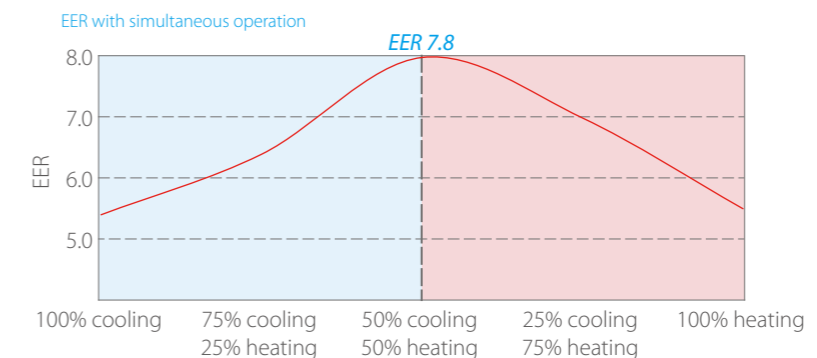
Piping length	Capability (m)
Total piping length	1000
Longest piping length-actual (equivalent)	175 (200)
Longest piping length after first branch	40/90*
Largest level difference between IDUs and ODU-ODU up (down)	110 (110)
Largest level difference between IDUs	30

*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 dealer for further information.



Heat Recovery, Maximum Energy Saving

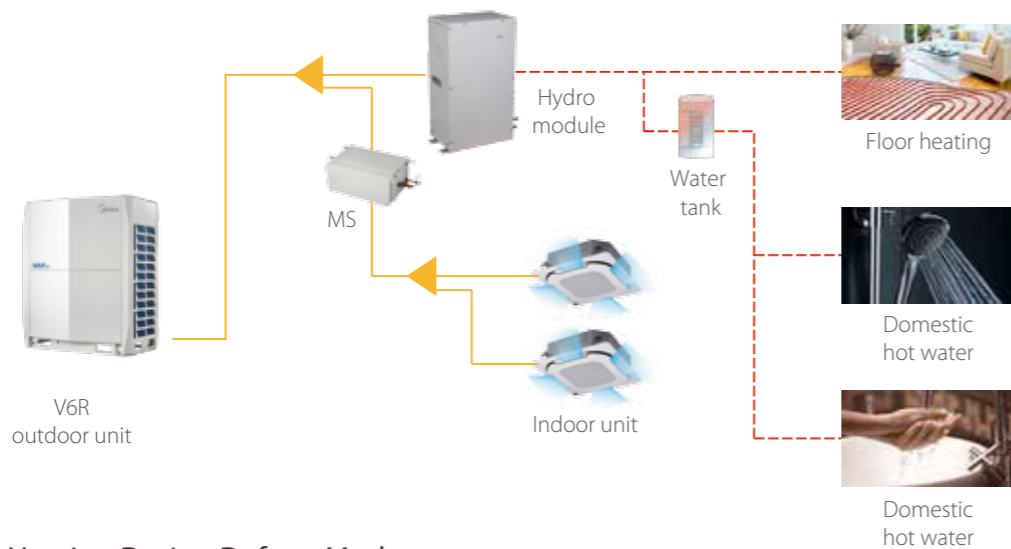
V6R Heat Recovery system can perform both cooling and heating operation simultaneously in one system. Heat recovery is achieved by diverting exhaust heat from indoor units in cooling mode to areas requiring heating. As a result of this, energy efficiency is maximized and electricity costs are reduced. The part load efficiencies are high as well (up to 7.8 in 8 HP category).



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

Hot Water Supply

The V6R system can produce hot water (25°C to 80°C) when providing room air conditioning. The hot water can be used for space heating and domestic hot water, improving room comfort.



Continuous Heating During Defrost Mode

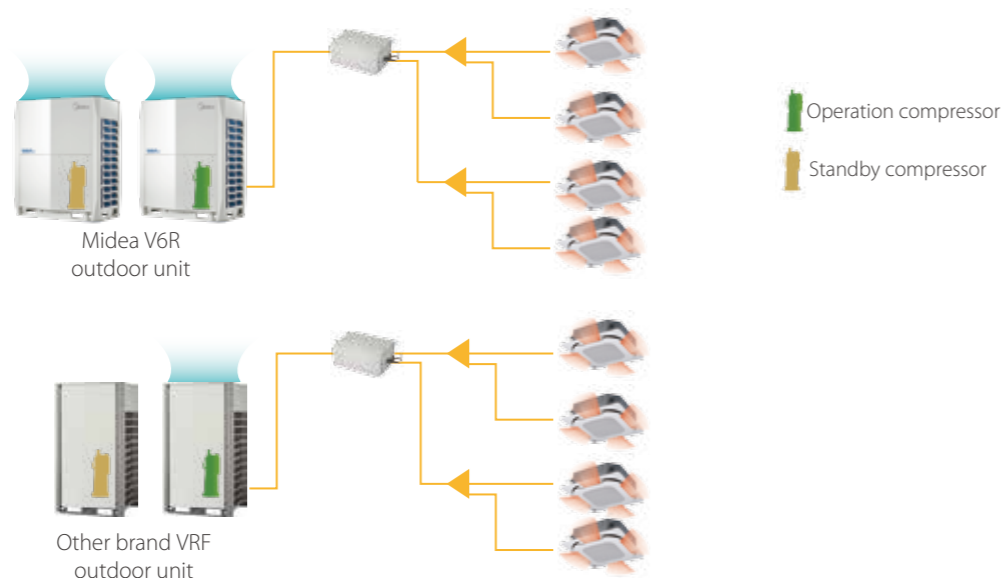
Normally, it is necessary to stop the heating operation during defrosting. However, the continuous heating operation method makes it possible to perform defrosting while the heating operation continues. With the combination model, units perform defrosting alternately. While one unit is performing defrosting, the other continues heating.



Note: This function is only available when the indoor units connected in V6R system are 2nd generation AC VRF indoor units (which will be released soon) or 2nd generation DC VRF indoor units produced after May 31st, 2020 only.

Independent Control of Heat Exchanger and Compressor to Improve Energy Efficiency

In cooling or heating mode, for a multi-unit system, the outdoor heat exchanger and compressor are independently controlled to improve energy efficiency, which means even the compressor of the outdoor unit does not operate, the heat exchanger of this outdoor unit can be used for heat exchange. This function can maximum use the outdoor heat exchanger to improve heat exchange efficiency.

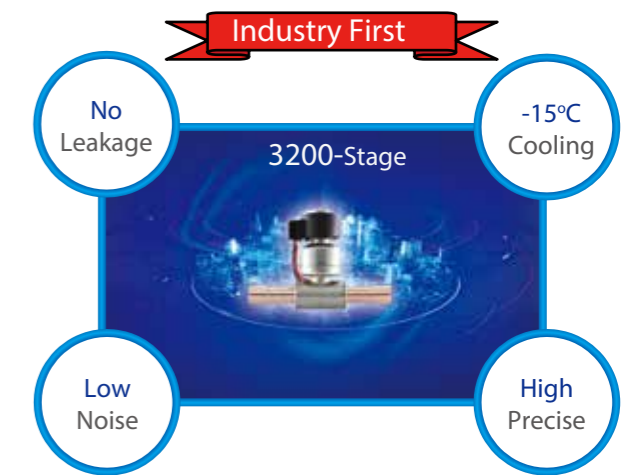


Intelligent MS Box

The V6R Heat Recovery system can perform simultaneous heating and cooling operation through the intelligent MS-box. It switches operation mode according to user requirement while it increases efficiency with simultaneous operation.

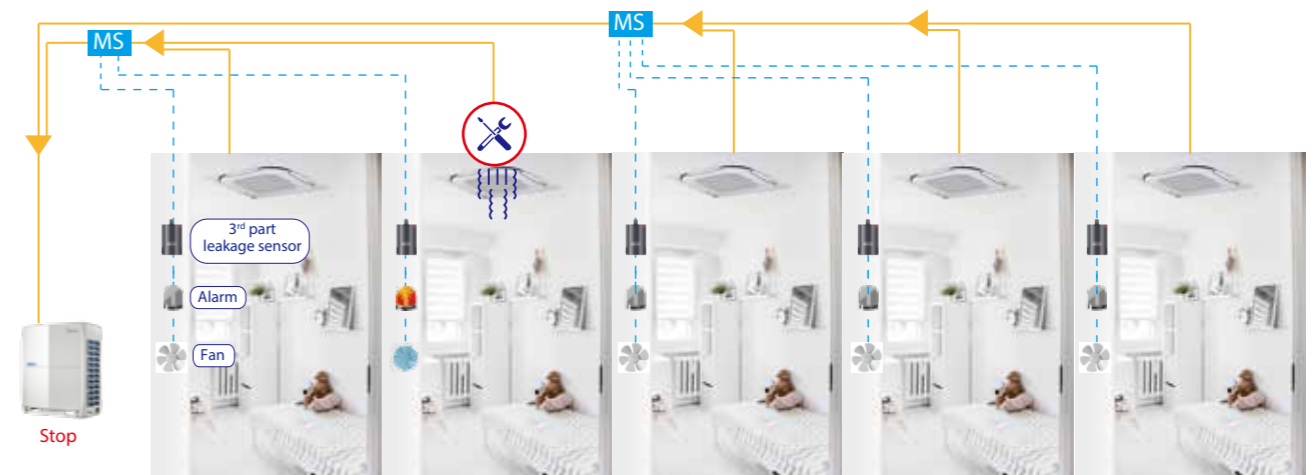
● Single Port

- ▶ Compact and light to install
- ▶ No drain piping needed
- ▶ Connect up to 8 indoor units, capacity up to 32kW
- ▶ Double direction connection for refrigerant pipe to improve installation flexibility
- ▶ Electric ball valve control precision is up to 3200-stage
 - Completely close the valve with almost no leakage
 - Can be opened and closed in stages with very low noise
 - Can achieve cooling at ambient temperatures as low as -15°C
 - High precision refrigerant flow control
 - Low noise operation



- ▶ Real-time refrigerant leakage detection, safe and reliable operation.

- Real-time refrigerant leakage detection
- Provide dry contact to 3rd party for alarm and exhaust fan. When refrigerant leakage occurs, the alarm light will be on and the exhaust fan will automatically run to timely reduce the concentration of refrigerant in the room



● Multiple Ports: 4-6-8-10-12

- ▶ Compact and light to install
- ▶ Low noise operation
- ▶ Up to 5 indoor units can be connected to one port
- ▶ Up to 47 indoor units can be connected to one MS12 box
- ▶ Up to 16 kW capacity available per port
- ▶ Connect up to 280 index unit (28kW) by combining 2 ports



VRF V6R Series - Heat Recovery

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

HP			8	10	12	14	16	18	20	
Model name			MV6-R252WV2GN1	MV6-R280WV2GN1	MV6-R335WV2GN1	MV6-R400WV2GN1	MV6-R450WV2GN1	MV6-R500WV2GN1	MV6-R560WV2GN1	
Power supply	V/N/Hz		380-415/3/50(60)							
Cooling ¹	Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	
	Power input	kW	5.25	7.18	8.64	9.83	12.00	13.81	17.39	
	EER		4.27	3.90	3.88	4.07	3.75	3.62	3.22	
Heating ² (Nominal)	Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	
	Power input	kW	3.96	5.46	6.57	8.26	9.78	11.90	14.77	
	COP		5.66	5.13	5.10	4.84	4.60	4.20	3.79	
Heating ² (Max)	Capacity	kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0	
	Power input	kW	4.69	7.12	9.48	9.78	12.26	14.77	18.33	
	COP		5.33	4.43	3.95	4.60	4.08	3.79	3.44	
Connected indoor unit	Total capacity		50-200% of outdoor unit capacity							
	Maximum quantity		64							
Compressor	Type		DC inverter							
	Quantity		1							
Fan	Type		Propeller							
	Motor type		DC							
	Quantity		1			2				
	Static pressure	Pa	0,20,40,60,80(Selectable)							
	Air flow rate	m ³ /h	9000	9500	10000	14000	14900	15800	15800	
Refrigerant	Type		R410A							
	Factory charge	kg	8			10				
Pipe connections ³	Liquid pipe	mm	Φ12.7			Φ15.9				
	Low pressure gas pipe	mm	Φ25.4			Φ28.6				
	High pressure gas pipe	mm	Φ19.1			Φ22.2				
Sound pressure level ⁴	dB(A)	58	58	60	61	64	65	65		
Sound power level ⁴	dB(A)	78	78	81	81	88	88	88		
Net dimensions (WxHxD)	mm	990x1635x790			1340x1635x825					
Packed dimensions (WxHxD)	mm	1090x1805x860			1405x1805x910					
Net weight	kg	232			300					
Gross weight	kg	248			325					
Ambient temp. operation range	Cooling	°C (DB)	-15 ~ 52							
	Heating	°C (DB)	-25 ~ 19							
	Domestic hot water	°C (DB)	-20 ~ 43							

HP			22	24
Model name			MV6-R615WV2GN1	MV6-R680WV2GN1
Combination type			10HP+12HP	
Power supply	V/N/Hz		380-415/3/50(60)	
Cooling ¹	Capacity	kW	61.5	68.0
	Power input	kW	15.82	17.01
	EER		3.89	4.00
Heating ² (Nominal)	Capacity	kW	61.5	68.0
	Power input	kW	12.03	13.72
	COP		5.11	4.96
Heating ² (Max)	Capacity	kW	69.0	76.5
	Power input	kW	16.60	16.90
	COP		4.16	4.53
Connected indoor unit	Total capacity		50-200% of outdoor unit capacity	
	Maximum quantity		64	
Compressor	Type		DC inverter	
	Quantity		2	
Fan	Type		Propeller	
	Motor type		DC	
	Quantity		2	3
	Static pressure	Pa	0,20,40,60,80(Selectable)	
	Air flow rate	m ³ /h	19500	23500
Refrigerant	Type		R410A	
	Factory charge	kg	16	18
Pipe connections ³	Liquid pipe	mm	Φ15.9	
	Low pressure gas pipe	mm	Φ28.6	
	High pressure gas pipe	mm	Φ28.6	
Sound pressure level ⁴	dB(A)	62	63	
Sound power level ⁴	dB(A)	83	83	
Net dimensions (WxHxD)	mm	(990x1635x790)x2	990x1635x790+1340x1635x825	
Packed dimensions (WxHxD)	mm	(1090x1805x860)x2	1090x1805x860+1405x1805x910	
Net weight	kg	232x2	300x2	
Gross weight	kg	248x2	325x2	
Ambient temp. operation range	Cooling	°C (DB)	-15 ~ 52	
	Heating	°C (DB)	-25 ~ 19	
	Domestic hot water	°C (DB)	-20 ~ 43	

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.
- For single units, diameters given are those of the unit's stop valves. For combined units, 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 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 V6R Series - Heat Recovery

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

HP			26	28	30
Model name			MV6-R735WV2GN1	MV6-R785WV2GN1	MV6-R835WV2GN1
Combination type			12HP+14HP		12HP+16HP
Power supply	V/N/Hz		380-415/3/50(60)		
Cooling ¹	Capacity	kW	73.5	78.5	83.5
	Power input	kW	18.46	20.64	22.45
	EER		3.98	3.80	3.72
Heating ² (Nominal)	Capacity	kW	73.5	78.5	83.5
	Power input	kW	14.83	16.35	18.47
	COP		4.96	4.80	4.52
Heating ² (Max)	Capacity	kW	82.5	87.5	93.5
	Power input	kW	19.27	21.74	24.25
	COP		4.28	4.02	3.86
Connected indoor unit	Total capacity		50-200% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter		
	Quantity		2		
Fan	Type		Propeller		
	Motor type		DC		
	Quantity		3		
	Static pressure	Pa	0,20,40,60,80(Selectable)		
	Air flow rate	m ³ /h	24000	25800	
Refrigerant	Type		R410A		
	Factory charge	kg	18		
Pipe connections ³	Liquid pipe	mm	Φ19.1		
	Low pressure gas pipe	mm	Φ34.9		
	High pressure gas pipe	mm	Φ28.6		
Sound pressure level ⁴	dB(A)	64	65	66	
Sound power level ⁴	dB(A)	84	89	89	
Net dimensions (WxHxD)	mm	990x1635x790+1340x1635x825			
Packed dimensions (WxHxD)	mm	1090x1805x860+1405x1805x910			
Net weight	kg	232+300			
Gross weight	kg	248+325			
Ambient temp. operation range	Cooling	°C (DB)	-15 ~ 52		
	Heating	°C (WB)	-25 ~ 19		
	Domestic hot water	°C (DB)	-20 ~ 43		

HP			32	34	36	38	40
Model name			MV6-R900WV2GN1	MV6-R950WV2GN1	MV6-R1000WV2GN1	MV6-R1060WV2GN1	MV6-R1120WV2GN1
Combination type			16HP+16HP		16HP+18HP	18HP+18HP	18HP+20HP
Power supply	V/N/Hz		380-415/3/50(60)				
Cooling ¹	Capacity	kW	90.0	95.0	100.0	106.0	112.0
	Power input	kW	24.00	25.81	27.62	31.20	34.78
	EER		3.75	3.68	3.62	3.40	3.22
Heating ² (Nominal)	Capacity	kW	90.0	95.0	100.0	106.0	112.0
	Power input	kW	19.57	21.69	23.81	26.67	29.53
	COP		4.60	4.38	4.20	3.97	3.79
Heating ² (Max)	Capacity	kW	100.0	106.0	112.0	119.0	126.0
	Power input	kW	24.52	27.03	29.53	33.09	36.65
	COP		4.08	3.92	3.79	3.60	3.44
Connected indoor unit	Total capacity		50-200% of outdoor unit capacity				
	Maximum quantity		64				
Compressor	Type		DC inverter				
	Quantity		2				
Fan	Type		Propeller				
	Motor type		DC				
	Quantity		4				
	Static pressure	Pa	0,20,40,60,80(Selectable)				
	Air flow rate	m ³ /h	29800	30700	31600		31600
Refrigerant	Type		R410A				
	Factory charge	kg	20				
Pipe connections ³	Liquid pipe	mm	Φ19.1				
	Low pressure gas pipe	mm	Φ34.9				
	High pressure gas pipe	mm	Φ28.6				
Sound pressure level ⁴	dB(A)	67	68	68	68	68	
Sound power level ⁴	dB(A)	91	91	91	91	91	
Net dimensions (WxHxD)	mm	(1340x1635x825)x2					
Packed dimensions (WxHxD)	mm	(1405x1805x910)x2					
Net weight	kg	300x2					
Gross weight	kg	325x2					
Ambient temp. operation range	Cooling	°C (DB)	-15 ~ 52				
	Heating	°C (WB)	-25 ~ 19				
	Domestic hot water	°C (DB)	-20 ~ 43				

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 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 V6R Series - Heat Recovery

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

HP			42	44	46	48
Model name			MV6-R1185WV2GN1	MV6-R1235WV2GN1	MV6-R1300WV2GN1	MV6-R1350WV2GN1
Combinaton type			12HP+14HP+16HP	12HP+16HP+16HP	14HP+16HP+16HP	16HP+16HP+16HP
Power supply			380-415/3/50(60)			
Cooling ¹	Capacity	kW	118.5	123.5	130.0	135.0
	Power input	kW	30.46	32.64	33.83	36.00
	EER		3.89	3.78	3.84	3.75
Heating ² (Nominal)	Capacity	kW	118.5	123.5	130.0	135.0
	Power input	kW	24.62	26.13	27.83	29.35
	COP		4.81	4.73	4.67	4.60
Heating ² (Max)	Capacity	kW	132.5	137.5	145.0	150.0
	Power input	kW	31.53	34.01	34.31	36.79
	COP		4.20	4.04	4.23	4.08
Connected indoor unit	Total capacity Maximum quantity 50-200% of outdoor unit capacity 64					
Compressor	Type	DC inverter				
	Quantity	3				
Fan	Type	Propeller				
	Quantity	6				
Refrigerant	Type	R410A				
	Factory charge	kg				
	Liquid pipe	mm				
Pipe connections ³	Low pressure gas pipe	mm				
	High pressure gas pipe	mm				
	Static pressure	Pa				
Sound pressure level ⁴		dB(A)				
		dB(A)				
Net dimensions (WxHxD)		mm				
		mm				
Packed dimensions (WxHxD)		mm				
		mm				
Net weight		kg				
		kg				
Ambient temp. operation range	Cooling	°C (DB)				
	Heating	°C (WB)				
	Domestic hot water	°C (DB)				

HP			50	52	54	56	58	60
Model name			MV6-R1400WV2GN1	MV6-R1450WV2GN1	MV6-R1500WV2GN1	MV6-R1560WV2GN1	MV6-R1620WV2GN1	MV6-R1680WV2GN1
Combinaton type			16HP+16HP+18HP	16HP+18HP+18HP	18HP+18HP+18HP	18HP+18HP+20HP	18HP+20HP+20HP	20HP+20HP+20HP
Power supply			380-415/3/50(60)					
Cooling ¹	Capacity	kW	140.0	145.0	150.0	156.0	162.0	168.0
	Power input	kW	37.81	39.62	41.44	45.01	48.59	52.17
	EER		3.70	3.66	3.62	3.47	3.33	3.22
Heating ² (Nominal)	Capacity	kW	140.0	145.0	150.0	156.0	162.0	168.0
	Power input	kW	31.47	33.59	35.71	38.58	41.44	44.30
	COP		4.45	4.32	4.20	4.04	3.91	3.79
Heating ² (Max)	Capacity	kW	156.0	162.0	168.0	175.0	182.0	189.0
	Power input	kW	39.29	41.80	44.30	47.86	51.42	54.98
	COP		3.97	3.88	3.79	3.66	3.54	3.44
Connected indoor unit	Total capacity Maximum quantity 50-200% of outdoor unit capacity 64							
Compressor	Type	DC inverter						
	Quantity	3						
Fan	Type	Propeller						
	Quantity	6						
Refrigerant	Type	R410A						
	Factory charge	kg						
	Liquid pipe	mm						
Pipe connections ³	Low pressure gas pipe	mm						
	High pressure gas pipe	mm						
	Static pressure	Pa						
Sound pressure level ⁴		dB(A)						
		dB(A)						
Net dimensions (WxHxD)		mm						
		mm						
Packed dimensions (WxHxD)		mm						
		mm						
Net weight		kg						
		kg						
Ambient temp. operation range	Cooling	°C (DB)						
	Heating	°C (WB)						
	Domestic hot water	°C (DB)						

- 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 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 V6R Series - MS box



Model name	MS01/N1-D	MS04/N1-D	MS06/N1-D	MS08/N1-D	MS10/N1-D	MS12/N1-D		
Power supply								
220-240V~50/60Hz								
Max. number of indoor unit groups	1	4	6	8	10	12		
Max. number of indoor units per group	8	5	5	5	5	5		
Max. number of downstream indoor units	8	20	30	40	47	47		
Max. capacity of each group of indoor units	kW	32	16	16	16	16		
Max. total capacity of all downstream indoor units	kW	32	49	63	85	85		
Pipe connections to ODU ¹	Liquid pipe	mm	φ9.53/φ12.7	φ9.53/φ12.7/φ15.9/φ19.1	φ9.53/φ12.7/φ15.9/φ19.1	φ12.7/φ15.9/φ19.1/φ22.2	φ12.7/φ15.9/φ19.1/φ22.2	φ12.7/φ15.9/φ19.1/φ22.2
	Low pressure gas pipe	mm	φ15.9/φ19.1/φ22.2	φ19.1/φ22.2/φ28.6	φ19.1/φ22.2/φ28.6	φ22.2/φ28.6/φ34.9	φ22.2/φ28.6/φ34.9	φ22.2/φ28.6/φ34.9
	High pressure gas pipe	mm	φ12.7/φ15.9/φ19.1	φ15.9/φ19.1/φ22.2/φ28.6	φ15.9/φ19.1/φ22.2/φ28.6	φ19.1/φ22.2/φ28.6	φ19.1/φ22.2/φ28.6	φ19.1/φ22.2/φ28.6
Pipe connections to IDU ¹	Liquid pipe	mm	φ6.35/φ9.53	φ6.35/φ9.53	φ6.35/φ9.53	φ6.35/φ9.53	φ6.35/φ9.53	φ6.35/φ9.53
	Gas pipe	mm	φ12.7/φ15.9	φ12.7/φ15.9	φ12.7/φ15.9	φ12.7/φ15.9	φ12.7/φ15.9	φ12.7/φ15.9
Sound pressure level ¹	dB(A)	40	44	45	47	47	47	
Sound power level ¹	dB(A)	60	63	65	65	65	65	
Net dimensions (WxHxD)	mm	440x195x296	668x250x574	668x250x574	974x250x574	974x250x574	974x250x574	
Packed dimensions (WxHxD)	mm	740x275x405	1020x390x850	1020x390x850	1320x390x850	1320x390x850	1320x390x850	
Net weight	kg	10.5	33	36	48	51	54	
Gross weight	kg	14	58	61	79	82	85	

Note:
1 There is more than one size for pipe diameter in the above table because MS provides multiple sizes for different installation conditions.



VRF V6R Series - High temperature hydro module

Model			SMK-D140HNN1-3
Power supply			220-240V~50/60Hz
Heating Capacity ¹	kW	14	
Operating temperature range	Heating	°C	
	Domestic hot water	°C	
Water temperature	°C		
Water flow rate	Nominal (Min.-Max.)	m³/h	
Allowable water pressure	Bar		
Refrigerant	Type	R134a	
	Factory charge	kg	
Sound pressure level	dB(A)		
Net dimensions (WxHxD)	mm		
Packed dimensions (WxHxD)	mm		
Net / Gross weight	kg		
Refrigerant pipe	Connection type		Brazing
	Liquid pipe diameter	mm	φ9.53
	Gas pipe diameter	mm	φ12.7
Water pipe	Connection type		External thread
	Inlet pipe diameter	mm	φ25.4
	Outlet pipe diameter	mm	φ25.4
Unit installation ambient temperature range	°C		
Unit installation place	Indoor only		

Note:
Nominal heating capacity is based on the following conditions: ambient temperature 7°C DB/6°C WB; water inlet/outlet temperature 40°C DB/45°C.



Indoor Units
VRF indoor units



Fresh Air Processing Unit
100% fresh air supply



Ventilation
Heat recovery ventilator (HRV)



AHU Connection Kit
Connect to Midea or third party DX AHU



Control Systems
Smart control systems



VRF VC Pro Series Cooling Only

Optimized design
for small to large
buildings

- ▶ META Technology
- ▶ Zen Air Technology
- ▶ Doctor M Technology
- ▶ 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 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)



24-90HP



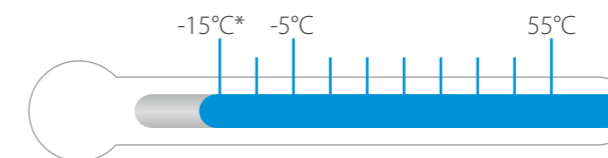
24/26/28/30HP
(with dual fans)



Wide Operating Temperature Range

The VC Pro VRF can operate stably in a wide ambient temperature range: from -5°C (-15°C*) to 55°C in cooling mode.

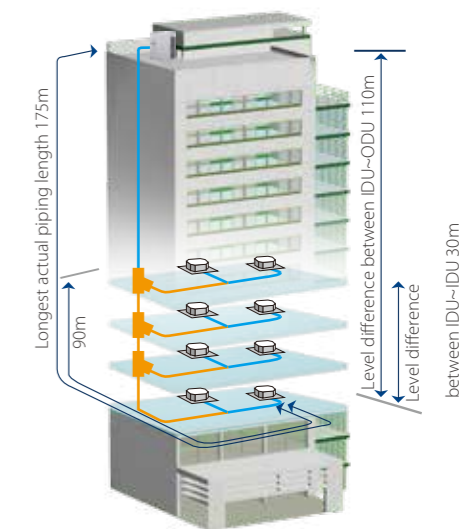
* Cooling operation at -15°C is available as a customization option.



Long Piping Capability

Piping length	Capability (m)
Total piping length	1000
Longest piping length-actual (equivalent)	175 (200)
Longest piping length after first branch	40/90*
Largest level difference between IDUs and ODU-ODU up (down)	90 (110)
Largest level difference between IDUs	30

*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 dealer for further information.



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	V/N/Hz			
		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	Φ12.7
	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	V/N/Hz				
		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			
Fan	Type		DC			
	Model		ZKSN-750-8-2			ZKSN-560-8-42L
	Quantity		1			
	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			
	Factory charge	kg	11			
Pipe connections ²	Liquid pipe	mm	Φ15.9	Φ15.9		Φ15.9
	Gas pipe	mm	Φ31.8	Φ31.8		Φ31.8
Sound pressure level ³		dB(A)	60			
Net dimensions (WxHxD)		mm	960x1615x765			
Packed dimensions (WxHxD)		mm	1025x1790x830			
Net weight		kg	197			
Gross weight		kg	213			
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	V/N/Hz			
		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	Φ15.9	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ34.9
Sound pressure level ³		dB(A)	63		
Net dimensions (WxHxD)		mm	1250x1615x765		
Packed dimensions (WxHxD)		mm	1305x1790x820		
Net weight		kg	278		
Gross weight		kg	297		
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	V/N/Hz		
		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	Φ19.1	
	Gas pipe	mm	Φ34.9	Φ34.9
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		
Fan	Type	DC				
	Quantity	2		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 (W×H×D)	mm	(960×1615×765)×2		(1250×1615×765)+(960×1615×765)		
Packed dimensions (W×H×D)	mm	(1025×1790×830)×2		(1305×1790×820)+(1025×1790×830)		
Net weight	kg	197×2	278+188	278+197		
Gross weight	kg	213×2	297+204	297+213		
Ambient temp.	Cooling	°C	-5°C to 55 °C			

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		
Fan	Type	DC				
	Quantity	3		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 (W×H×D)	mm	(1585×1615×765)+(960×1615×765)		(1585×1615×765)+(1250×1615×765)		
Packed dimensions (W×H×D)	mm	(1650×1810×840)+(1025×1790×830)		(1650×1810×840)+(1305×1790×820)		
Net weight	kg	338+197	338+278			
Gross weight	kg	362+213	362+297			
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		
Pipe connections ²	Liquid pipe	mm	19.1		
	Gas pipe	mm	38.1		
Sound pressure level ³		dB(A)	65	66	
Net dimensions (W×H×D)	mm	(1585×1615×765)+(960×1615×765)			
Packed dimensions (W×H×D)	mm	(1650×1810×840)+(1025×1790×830)			
Net weight	kg	338+197			
Gross weight	kg	362+213			
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 (W×H×D)	mm	(1585×1615×765)×2			
Packed dimensions (W×H×D)	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:
 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. 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.
 3. 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.

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. 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.
 3. 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+197x2	338+278+197		
Gross weight	kg	362x2	362+213x2	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	338x2+197			
Gross weight	kg	362+297+213	362x2+213			
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+197	338x2+278			
Gross weight	kg	362x2+213	362x2+297			
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			
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			

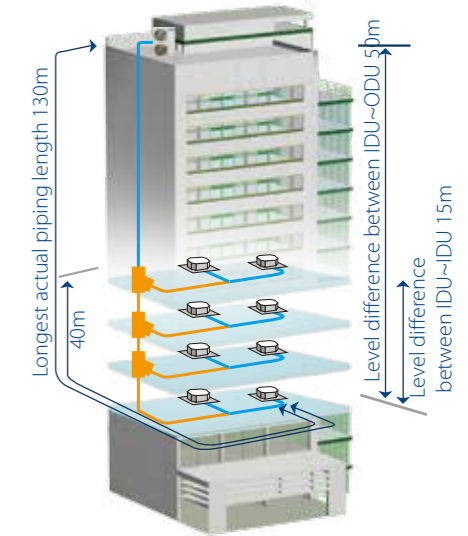
- Notes:
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid 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.

-  **Indoor Units**
VRF indoor units
-  **Ventilation**
Heat recovery ventilator (HRV)
-  **Control Systems**
Smart control systems
-  **AHU Connection Kit**
Connect to Midea or third party DX AHU



Long Piping Capability

Piping length	Capability (m)
Total piping length	150
Longest length - actual (equivalent)	120 (130)
Longest length after first branch	40
Longest length after nearest branch	15
Largest level difference between IDUs and ODU-ODU up (down)	50 (40)
Largest level difference between IDUs	15



VRF VC-i Series Cooling Only

Optimized design for small and medium-sized buildings

- ▶ Capacity Up to 10HP
- ▶ Connectable Indoor Units Quantity up to 16
- ▶ Refrigerant Cooling PCB
- ▶ Precise Oil Control Technology
- ▶ Advanced Silence Technology

VRF VC-i Series – Cooling Only

380~415V, 3N, 50Hz

HP			7	8	9	10
Model			MDVC-V200W/DRN1	MDVC-V224W/DRN1	MDVC-V260W/DRN1	MDVC-V280W/DRN1
Power supply	V/N/Hz	380-415/3/50				
Cooling ¹	Capacity	kW	20.0	22.4	26.0	28.0
		kBtu/h	68.2	76.4	88.7	95.5
	Power Input	kW	5.13	5.93	7.43	8.24
	EER		3.9	3.78	3.5	3.4
Connected indoor unit	Total Capacity	50-130% of outdoor unit capacity				
	Maximum Quantity		10	13	15	16
Compressor	Type	DC inverter				
	Quantity		1			
Fan	Type	AC				
	Quantity		2			
Refrigerant	Type	R410A				
	Factory charging	kg	3.9			
Pipe connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ19.1			
Airflow rate	m ³ /h	7150				
Sound pressure level ²	dB(A)	57	57	58	59	
Net dimensions (WxHxD)	mm	902x1327x370				
Packed dimensions (WxHxD)	mm	1030x1456x435				
Net weight	kg	115				
Gross weight	kg	125				
Operating temperature range	°C	-5 ~ 55				

380~415V, 3N, 60Hz

HP			7	8	9	10
Model			MDVC-V200W/DCN1	MDVC-V224W/CRN1	MDVC-V260W/DCN1	MDVC-V280W/DCN1
Power supply	V/N/Hz	380-415/3/60				
Cooling ¹	Capacity	kW	20.0	22.4	26.0	28.0
		kBtu/h	68.2	76.4	88.7	95.5
	Power Input	kW	5.13	5.93	7.43	8.24
	EER		3.9	3.78	3.5	3.4
Connected indoor unit	Total Capacity	50-130% of outdoor unit capacity				
	Maximum Quantity		10	13	15	16
Compressor	Type	DC inverter				
	Quantity		1			
Fan	Type	AC				
	Quantity		2			
Refrigerant	Type	R410A				
	Factory charging	kg	3.9			
Pipe connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ19.1			
Airflow rate	m ³ /h	7150				
Sound pressure level ²	dB(A)	58	58	59	60	
Net dimensions (WxHxD)	mm	902x1327x370				
Packed dimensions (WxHxD)	mm	1030x1456x435				
Net weight	kg	115				
Gross weight	kg	125				
Operating temperature range	°C	-5 ~ 55				

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. Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Indoor Units
VRF indoor units

Ventilation
Heat recovery ventilator (HRV)

Control Systems
Smart control systems

AHU Connection Kit
Connect to Midea or third party DX AHU



VRF Mini Series Cooling Only

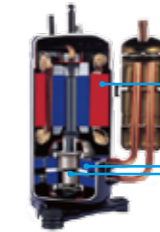
Optimized design for small buildings

- ▶ Capacity Up to 17kW
- ▶ Connectable Indoor Units Quantity Up to 9
- ▶ Precise Oil Control Technology
- ▶ Advanced Silence Technology
- ▶ Compact, Easy Installation

DC Inverter Compressor

DC inverter compressor makes the output of the outdoor unit to be modulated by the cooling or heating demands of the zone that it controls. This advanced system ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the limiting the impact on the environment.

Compressor (Twin Rotor) structure



- Highly Efficient DC Motor:**
 - Creative motor core design
 - High density neodymium magnet
 - Concentrated type stator
 - Wider operating frequency range
- Better balance and Extremely Low Vibration:**
 - Twin eccentric cams
 - 2 balance weights
- Highly Stable Moving Parts:**
 - Optimal material matching rollers and vanes
 - Optimize compressor drive technology
 - Highly robust bearings
 - Compact structure

Wide Capacity Range

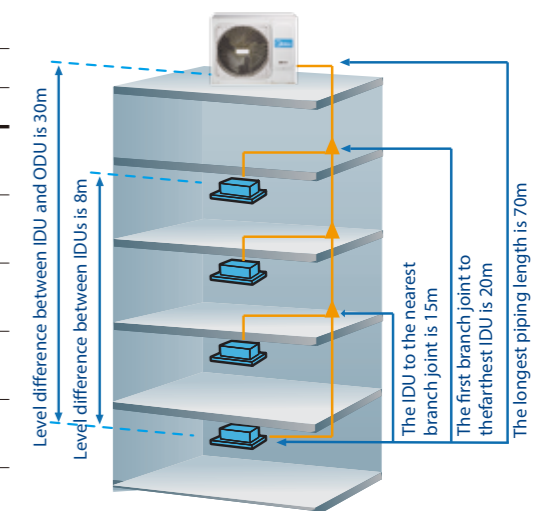
Cooling Only Mini VRF series has 5 models from 7.2kW to 17 kW with compact size which is perfect for commercial and residential applications: small offices, villas, apartments, shops, etc.

Cooling Only Mini VRF series



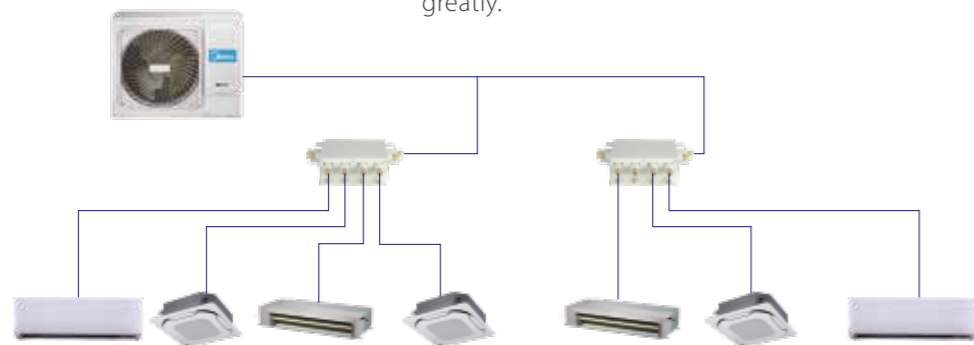
Long Piping Capability

Piping length	Capability (m)	
	7.2-11kW	14.5-17kW
Total piping length	100	100
Longest piping length-actual (equivalent)	45 (50)	60 (70)
Longest piping length after first branch	20	20
Longest piping length after nearest branch	15	15
Largest level difference between IDUs and ODU-ODU up (down)	30 (20)	30 (20)
Largest level difference between IDUs	8	8



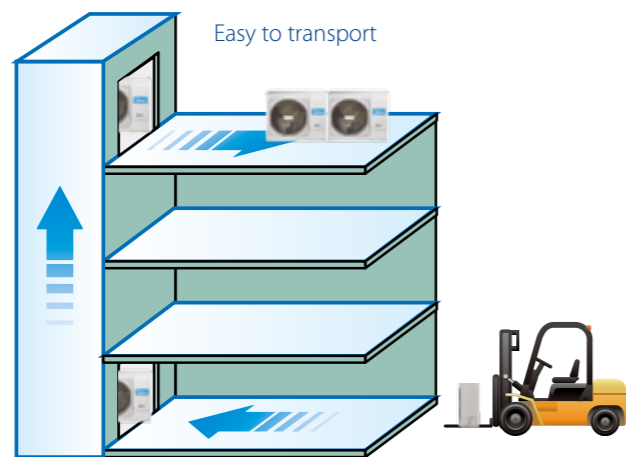
More Convenient Piping Connector – Branch Box

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

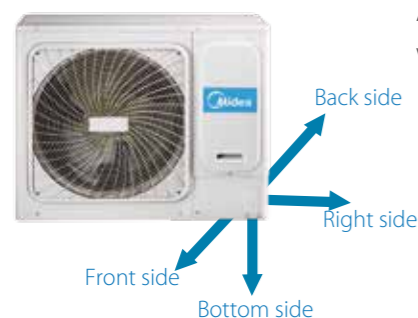


Easy Installation

The mini VRF can be transported by elevator which makes installation dramatically easy, and effectively reduces time and labor thanks to the small size.



Four-Way Piping Connection



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

Mini VRF - Cooling Only

220~240V, 1N, 50Hz


HP			2.5	3	4	5	6
Model			MDVC-V72W/DN1	MDVC-V92W/DN1	MDVC-V110W/DN1	MDVC-V145W/DN1	MDVC-V170W/DN1
Power supply			V/N/Hz 220-240V/1/50				
Cooling ¹	Capacity	kW	7.2	9.2	11	14.5	17
		kBtu/h	24.6	31.4	37.5	49.5	58.0
	Power input	kW	1.64	2.06	2.75	3.57	3.99
	EER		4.39	4.47	4	4.06	4.26
Connected indoor units	Total capacity	45-130% of outdoor unit capacity					
	Maximum quantity	4	5	6	8	9	
Compressors	Type	DC inverter					
	Quantity	1					
Fan	Type	DC					
	Quantity	1					
Refrigerant	Type	R410A					
	Factory charge	kg	1.4		2.6		
Pipe connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
Airflow rate	m ³ /h	3400				5100	
Sound pressure level ²	dB(A)	54				55	
Net dimensions (W×H×D)	mm	973×862×355				1040×865×523	
Packed dimensions (W×H×D)	mm	1025×910×410				1120×980×560	
Net weight	kg	58				85	
Gross weight	kg	63				92	
Operating temperature range	°C	-5 to 48					


208~230V, 1N, 60Hz


HP			2.5	3	4	5	6
Model			MDVC-V72W/DVN1	MDVC-V92W/DVN1	MDVC-V110W/DVN1	MDVC-V145W/DVN1	MDVC-V170W/DVN1
Power supply			V/N/Hz 208-230V/1/60				
Cooling ¹	Capacity	kW	7.2	9.2	11.0	14.5	17.0
		kBtu/h	24.6	31.4	37.5	49.5	58.0
	Power input	kW	1.64	2.06	2.75	3.57	3.99
	EER		4.39	4.47	4.00	4.06	4.26
Connected indoor units	Total capacity	45-130% of outdoor unit capacity					
	Maximum quantity	4	5	6	8	9	
Compressors	Type	DC inverter					
	Quantity	1					
Fan	Type	DC					
	Quantity	1					
Refrigerant	Type	R410A					
	Factory charge	kg	1.4		2.6		
Pipe connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
Airflow rate	m ³ /h	3400				5100	
Sound pressure level ²	dB(A)	54				55	
Net dimensions (W×H×D)	mm	973×862×355				1040×865×523	
Packed dimensions (W×H×D)	mm	1025×910×410				1120×980×560	
Net weight	kg	58				85	
Gross weight	kg	63				92	
Operating temperature range	°C	-5 to 48					

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Sound pressure level is measured at a position 1m in front of the unit and 1m 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 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

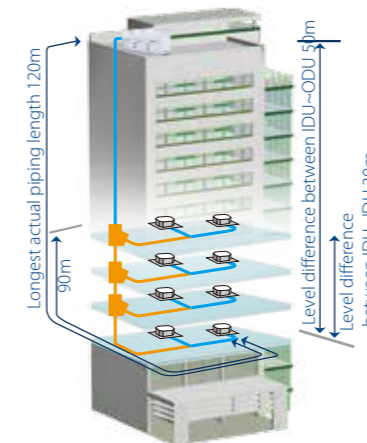
The Water Cooled V4+W Series capacity ranges from 8HP to 36HP, meets all customer requirements from small to large buildings.

8/10/12HP

Max. 3 units combination



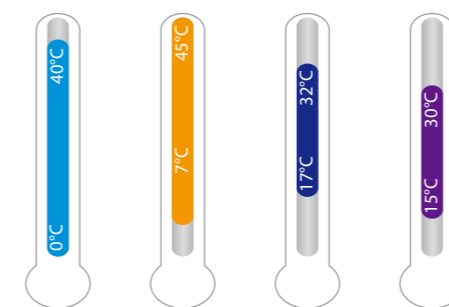
Long Piping Capability







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.

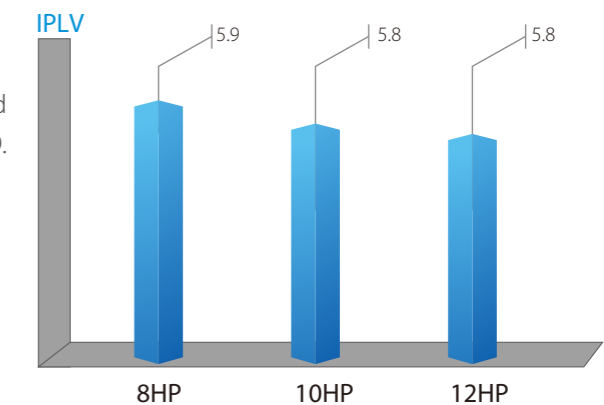
Wide Operation Temperature Range



-  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.



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	MDVS-280(10)W/DRN1	MDVS-335(12)W/DRN1	MDVS-504(16)W/DRN1	MDVS-532(18)W/DRN1	MDVS-560(20)W/DRN1	MDVS-615(22)W/DRN1	
Model (380~415V, 3N, 60Hz)		MDVS-252(8)W/DCN1	MDVS-280(10)W/DCN1	MDVS-335(12)W/DCN1	MDVS-504(16)W/DCN1	MDVS-532(18)W/DCN1	MDVS-560(20)W/DCN1	MDVS-615(22)W/DCN1	
Combined type		/	/	/	8HPx2	8HP+10HP	10HPx2	10HP+12HP	
Cooling ¹	Capacity	kW	25.2	28.0	33.5	50.4	53.2	56.0	
	Power input	kW	4.80	6.10	8.00	9.60	10.90	12.20	
	EER		5.25	4.59	4.19	5.25	4.88	4.59	
Heating ²	Capacity	kW	27.0	31.5	37.5	54.0	58.5	63.0	
	Power input	kW	4.45	5.83	7.80	8.90	10.3	11.66	
	COP		6.07	5.40	4.81	6.07	5.69	5.40	
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity							
	Max. quantity	13	16	19	23	29	33	36	
Compressor	Type	DC inverter							
	Quantity	1	1	1	2	2	2	2	
Heat exchanger	Type	Double-pipe heat exchanger							
	Rated water flow volume	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 ³	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 ⁴	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	MDVS-784(26)W/DRN1	MDVS-812(28)W/DRN1	MDVS-840(30)W/DRN1	MDVS-895(32)W/DRN1	MDVS-950(34)W/DRN1	MDVS-1005(36)W/DRN1
Model (380~415V, 3N, 60Hz)		MDVS-670(24)W/DCN1	MDVS-784(26)W/DCN1	MDVS-812(28)W/DCN1	MDVS-840(30)W/DCN1	MDVS-895(32)W/DCN1	MDVS-950(34)W/DCN1	MDVS-1005(36)W/DCN1
Combined type		12HPx2	8HPx2+10HP	8HP+10HPx2	10HPx3	10HPx2+12HP	10HP+12HPx2	12HPx3
Cooling ¹	Capacity	kW	67.0	78.4	81.2	84.0	89.5	95.0
	Power input	kW	16.0	15.7	17.0	18.3	20.2	22.1
	EER		4.19	4.99	4.78	4.59	4.43	4.30
Heating ²	Capacity	kW	75.0	85.5	90.0	94.5	100.5	106.5
	Power input	kW	15.6	14.73	16.11	17.49	19.46	21.43
	COP		4.81	5.80	5.59	5.40	5.16	4.97
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity						
	Max. quantity	39	43	46	50	53	56	59
Compressor	Type	DC inverter						
	Quantity	2	3	3	3	3	3	3
Heat exchanger	Type	Double-pipe heat exchanger						
	Rated water flow volume	m ³ /h	7.2x2	5.4x2+6	5.4+6x2	6x3	6x2+7.2	6+7.2x2
Refrigerant	Type	R410A						
	Factory charging	kg	2x2	2x3	2x3	2x3	2x3	2x3
Pipe connections ³	Liquid pipe	mm	Φ15.9	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
	Oil balance pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Sound pressure level ⁴	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:
 1. Indoor temperature 27°C DB, 19°C WB; main unit ambient temperature 35°C DB; water inlet temperature 30°C; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; main unit ambient temperature 7°C DB, 6°C WB; water inlet temperature 20°C; equivalent refrigerant piping length 7.5m with zero level difference.
 3. For single units, diameters given are those of the unit's stop valves. For combined units, diameters given are those for the pipe connecting the main 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 Engineering Data Book for connection piping diameters.
 4. Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

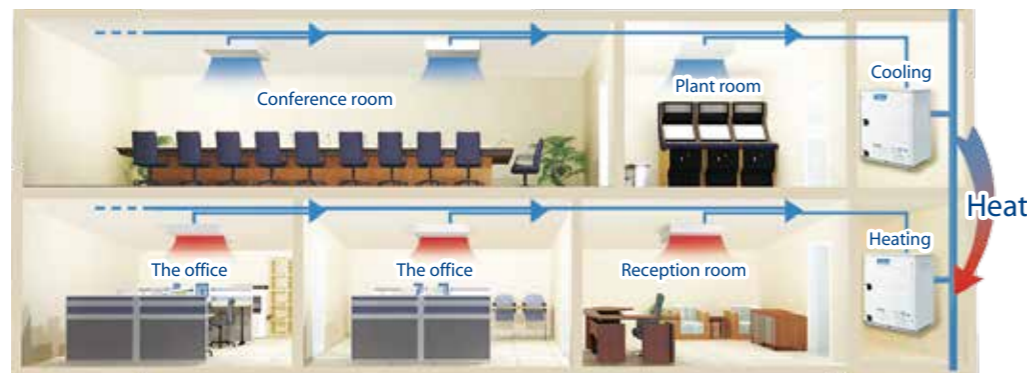
High Efficiency Double-Pipe Heat Exchanger

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



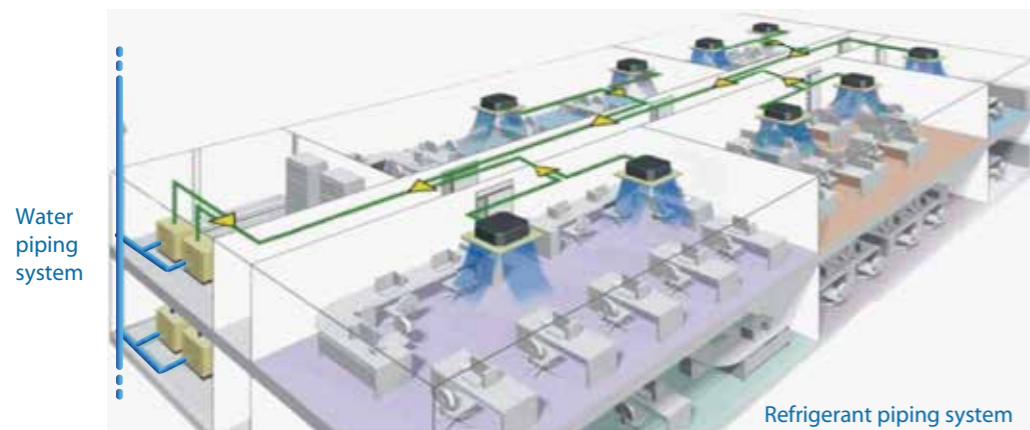
Water Side Heat Recovery Function

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.









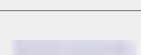



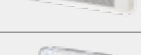
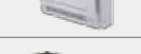
INDOOR UNITS

One-way Cassette
Two-way Cassette
Compact Four-way Cassette
Four-way Cassette
Medium Static Pressure Duct
High Static Pressure Duct
Wall Mounted
Ceiling & Floor
Floor Standing
Console
Fresh Air Processing Unit
DX Modular Air Handling Unit
Heat Recovery Ventilator
Puro-Air Kit



Inoor Unit Lineup



Normal VRF Indoor Units

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	
One-way Cassette			● ●	● ●	● ●	● ●	● ●	● ●	● ●	2nd-DC IDU 2nd-AC IDU														
Two-way Cassette				● ●	● ●	● ●	● ●	● ●	● ●	2nd-DC IDU 2nd-AC IDU														
Four-way Cassette					● ●	● ●	● ●	● ●	● ●	2nd-DC IDU 2nd-AC IDU	● ●	● ●	● ●	● ●		● ●	●							
Compact Four-way Cassette			●	● ●	● ●	● ●	● ●			2nd-DC IDU 2nd-AC IDU														
Medium Static Pressure Duct				● ●	● ●	● ●	● ●	● ●	● ●	2nd-DC IDU 2nd-AC IDU	● ●	● ●		● ●		● ●	●							
High Static Pressure Duct									● ●	2nd-DC IDU 2nd-AC IDU	● ●	● ●		● ●		● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	
Wall Mounted				● ●	● ●	● ●	● ●	● ●	● ●	2nd-DC IDU 2nd-AC IDU	● ●	● ●												
Ceiling & Floor						● ●	● ●	● ●	● ●	2nd-DC IDU 2nd-AC IDU	● ●	● ●		● ●		● ●	●							
Floor Standing - Concealed				●	●	●	●	●	●	2nd-DC IDU	●													
Floor Standing - Exposed				●	●	●	●	●	●	2nd-DC IDU	●													
Console				●	●	●	●			2nd-DC IDU														
Fresh Air Processing Unit										2nd-DC IDU						●	●		●	●	●		●	●

● 2nd Gen. DC Indoor Units ● 2nd Gen. AC Indoor Units

Notes:
Fresh air processing unit is not available for V4+W and Mini VRF Series.
No controller is supplied inside the indoor unit package. Controllers must be purchased separately.

DX Modular Air Handling Unit

Airflow (m ³ /h)		1500	1900	2500	3000	4000	5000	6000	7000		7500	8000	10000	12000	14000	15000	16000	17500	19000	20000	24000	30000	
Used for Return Air				●		●	●	●			●		●	●		●					●	●	●
Used for Fresh Air		●	●	●	●	●	●		●			●	●		●	●	●	●	●				

Notes:
The DX Modular Air Handling Unit should be used together with Midea DX AHU Control Box.

Indoor Unit Functions

Functions		One-way Cassette	Two-way Cassette		Compact Four-way Cassette	Four-way Cassette	Medium Static Pressure Duct	High Static Pressure Duct	Wall Mounted	Ceiling & Floor	Floor Standing	Console	Fresh Air Processing Unit
Comfort	Cold air prevention	●	●		●	●	●	●	●	●	●	●	●
	Quiet operation	●	●		●	●	●	●	●	●	●	●	●
	Auto cooling-heating changeover ¹	●	●		●	●	●	●	●	●	●	●	●
	Digital display on/off	●	●		●	●	●	●	●	●	●	●	●
	Buzzer sound on/off	●	●		●	●	●	●	●	●	●	●	●
	Heat stratification compensation	●	●		●	●	●	●	●	●	●	●	●
	Two thermistors control	●	●		●	●	●	●	●	●	●	●	●
0.5°C/1°C setting temperature adjustment	●	●		●	●	●	●	●	●	●	●	●	
Health	Air filter	●	●		●	●	●	●	●	●	●	●	●
	Fresh air intake	● (45-71)	●		● (AC series) × (DC series)	●	●	×	×	×	×	×	●
	Dirty filters indicator signal	●	●		●	●	●	●	●	●	●	●	●
Air flow	Vertical swing	5 steps setting+auto	5 steps setting+auto		5 steps setting+auto	5 steps setting+auto	×	×	5 steps setting+auto	5 steps setting+auto	×	5 steps setting+auto	×
	Horizontal swing	Manually set fixed angle+auto (45-71)	×		×	×	×	×	×	Manually set fixed angle+auto	×	×	×
	Fan speed steps	3+auto (AC series) 7+auto (DC series)	3+auto (AC series) 7+auto (DC series)		3+auto (AC series) 7+auto (DC series)	3+auto (AC series) 7+auto (DC series)	3+auto (AC series) 7+auto (DC series)	3+auto (AC series) 7+auto (DC series)	7+auto	3+auto (AC series) 7+auto (DC series)	3+auto (AC series) 7+auto (DC series)	3+auto (AC series) 7+auto (DC series)	3+auto (AC series) 7+auto (DC series)
	Individual louver control	×	×		×	● (360° panel)	×	×	×	×	×	×	×
	Auto fan speed	●	●		●	●	●	●	●	●	●	●	●
	Soft wind mode	×	×		×	●	×	×	×	×	×	×	×
	Adjustable ESP	×	×		×	×	●	●	×	×	×	×	●
Remote control & timer	Timer	●	●		●	●	●	●	●	●	●	●	●
	Infrared remote control	●	●		●	●	●	●	●	●	●	●	●
	Wired remote control	●	●		●	●	●	●	●	●	●	●	●
	Group control	●	●		●	●	●	●	● (DC series) × (AC series)	●	●	●	●
	Centralized control	●	●		●	●	●	●	●	●	●	●	●
	°C/°F setting	●	●		●	●	●	●	●	●	●	●	●
Other functions	Energy saving ²	●	●		●	●	●	●	●	●	●	●	●
	Auto-restart	●	●		●	●	●	●	●	●	●	●	●
	Self-diagnosis	●	●		●	●	●	●	●	●	●	●	●
	Drain pump	●	●		●	●	●	○	×	×	×	×	○
	Fan only	●	●		●	●	●	●	●	●	●	●	●
	Long-distance on/off function	○	○		○	○	○	○	○	○	○	○	○
	Long-distance alarm function	○	○		○	○	○	○	○	○	○	○	○
	Multiple protections	●	●		●	●	●	●	●	●	●	●	●
Easy cleaning	●	●		●	●	●	●	●	●	●	●	●	

Note:
 ●: equipped as standard; ○: customization option; ×: without this function
 1. Please contact your local dealer for detailed information.
 2. Energy saving function needs to be realized with the infrared sensor controller.

One-way Cassette



Meeting corner location requirements and at the same time maintaining the required visual appearance.

Key Features

One-way Cassette	DC Series	AC Series	
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Fresh air intake	● (45 to 71)	● (45 to 71)
	Dirty filters indicator signal	●	●
Air flow	Multiple fan speeds	7+auto	3+auto
	Multiple steps vertical swing	5+auto	5+auto
Easy installation	Minimized height	●	●
	High-lift drain pump	Rated head: 1200mm Raise height: 750mm	Rated head: 1200mm Raise height: 750mm

Note:
● equipped as standard

COMFORT

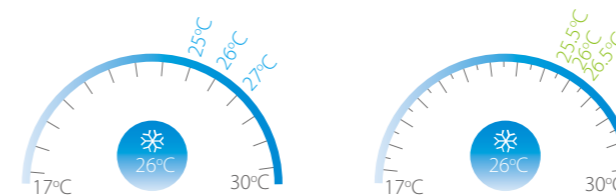
Quiet Operation

The One-way Cassette's optimized, low resistance air outlets reduce noise levels to as low as 22dB(A).



0.5°C/1°C Setting Temperature Adjustment

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



Digital Display On/Off

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



Buzzer Sound On/Off

Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

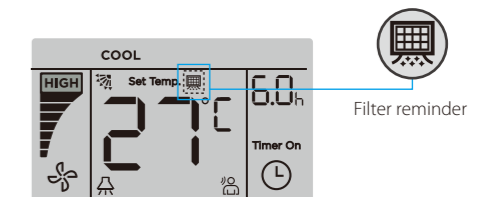
Fresh Air Intake

A reserved outside air intake port allows outdoor fresh air to be introduced directly into the unit, negating the need for a separate ventilation system.



Dirty Filters Indicator Signal

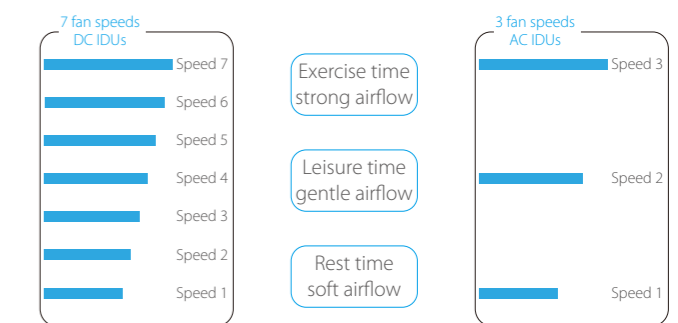
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

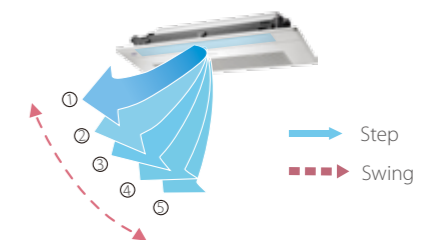
Multiple Fan Speeds

The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



Multiple Steps Vertical Swing

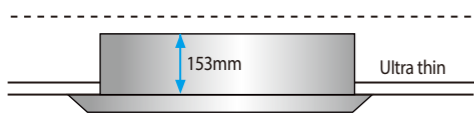
There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs.



EASY INSTALLATION

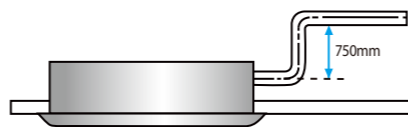
Easy Installation

The slim, compact design make the One-way Cassette ideal for interiors with limited ceiling space. Models 18 to 36 are just 153mm high whilst models 45 to 71 are 189mm high.



High-lift Drain Pump

A drain pump with a 750mm raise height is fitted as standard, simplifying installation of the drain piping.



Specifications - DC Series

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
Heating ²	Capacity	kW	2.2	2.6	3.2	4.0
		kBtu/h	7.5	8.9	10.9	13.6
Airflow 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	
Indoor unit	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	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ25			

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	
Heating ²	Capacity	kW	5.0	6.3	8.0	
		kBtu/h	17.1	21.5	27.3	
Airflow rate ³		m ³ /h	693/662/638/600/556/510/476		792/763/728/688/643/589/549	
Sound pressure level ⁴		dB(A)	39/37/36/35/34/32/31		41/39/38/37/36/35/33	
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	1275x189x450			
	Packed dimensions (WxHxD)	mm	1370x295x505			
	Net/Gross weight	kg	16.1/20.4		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	Φ6.35/Φ12.7		Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ25			

- 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 1.4m below the unit in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications - AC Series

50Hz Series

Model		MDV-D18Q1/N1-D(B)	MDV-D22Q1/N1-D(B)	MDV-D28Q1/N1-D(B)	MDV-D36Q1/N1-D(B)	MDV-D45Q1/N1-D(B)	MDV-D56Q1/N1-D(B)	MDV-D71Q1/N1-D(B)	
Power supply		1 phase, 220-240V, 50Hz							
Cooling ¹	Capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
		W	41	41	41	41	48	48	60
Heating ²	Capacity	kW	2.2	2.6	3.2	4	5	6.3	8
		W	41	41	41	41	48	48	60
Indoor fan motor	Type	AC							
	Quantity	1							
Airflow rate (H/M/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/M/L) ³		dB(A)	37/34/30	37/34/30	39/37/34	39/37/34	41/39/35	42/40/36	44/41/37
Refrigerant type		R410A							
Indoor unit	Dimension ⁴ (WxHxD)	mm	1054x153x425				1275x189x450		
	Packing (WxHxD)	mm	1155x245x490				1370x295x505		
	Net/Gross weight	kg	12.5/16		13/16.5		18.5/22.8	18.8/23.1	19.5/23.8
Panel	Dimension (WxHxD)	mm	1180x25x465				1350x25x505		
	Packing (WxHxD)	mm	1232x107x517				1410x95x560		
	Net/Gross weight	kg	3.5/5.2				4/5.4		
Pipe connections	Liquid pipe	mm	Φ6.35				Φ9.53		
	Gas pipe	mm	Φ12.7				Φ15.9		
	Drain pipe	mm	OD Φ25						

Specifications - AC Series

60Hz Series

Model		MDV-D18Q1/VN1-D(B)	MDV-D22Q1/VN1-D(B)	MDV-D28Q1/VN1-D(B)	MDV-D36Q1/VN1-D(B)	MDV-D45Q1/VN1-D(B)	MDV-D56Q1/VN1-D(B)	MDV-D71Q1/VN1-D(B)	
Power supply		1 phase, 220-240V, 60Hz							
Cooling ¹	Capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
		W	41	41	41	41	54	60	75
Heating ²	Capacity	kW	2.2	2.6	3.2	4	5	6.3	8
		W	41	41	41	41	54	60	75
Indoor fan motor	Type	AC							
	Quantity	1							
Refrigerant type		R410A							
Airflow rate (H/M/L)		m ³ /h	523/404/275		573/456/315		693/600/476	792/688/549	933/749/592
Sound pressure level (H/M/L) ³		dB(A)	37/34/30	37/34/30	39/37/34	39/37/34	41/39/35	42/40/36	44/41/37
Indoor unit	Dimension ⁴ (WxHxD)	mm	1054x153x425				1275x189x450		
	Packing (WxHxD)	mm	1155x245x490				1370x295x505		
	Net/Gross weight	kg	12.5/16		13/16.5		18.5/22.8	18.8/23.1	19.5/23.8
Panel	Dimension (WxHxD)	mm	1180x25x465				1350x25x505		
	Packing (WxHxD)	mm	1232x107x517				1410x95x560		
	Net/Gross weight	kg	3.5/5.2				4/5.4		
Pipe connections	Liquid pipe	mm	Φ6.35				Φ9.53		
	Gas pipe	mm	Φ12.7				Φ15.9		
	Drain pipe	mm	OD Φ25						

- 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.
 - Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Two-way Cassette



Compact and lightweight two-way airflow, perfect for limited ceiling space applications.

Key Features

Two-way Cassette	DC Series	AC Series
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Fresh air intake	●
	Dirty filters indicator signal	●
Air flow	Multiple fan speeds	7+auto
	Multiple steps vertical swing	5+auto
Easy installation	Minimized height	●
	High-lift drain pump	Rated head: 1200mm Raise height: 750mm

Note:
● equipped as standard

COMFORT

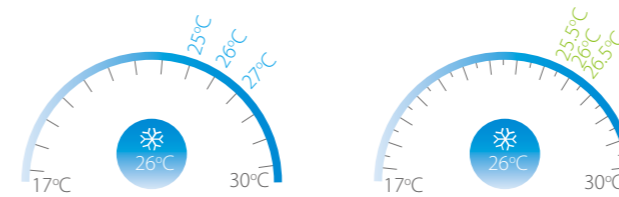
Quiet Operation

The Two-way Cassette's optimized, low resistance air outlets reduce noise levels to as low as 22dB(A).



0.5°C/1°C Setting Temperature Adjustment

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



Digital Display On/Off

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



Buzzer Sound On/Off

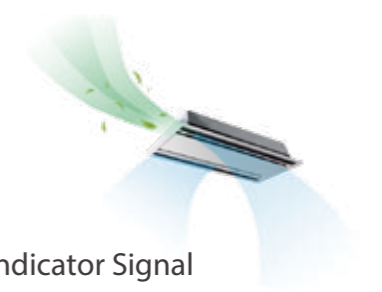
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

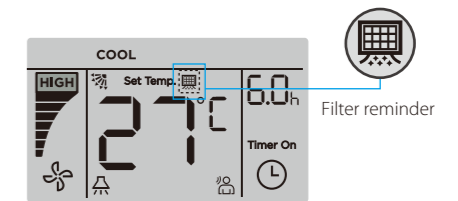
Fresh Air Intake

A reserved outside air intake port allows outdoor fresh air to be introduced directly into the unit, negating the need for a separate ventilation system.



Dirty Filters Indicator Signal

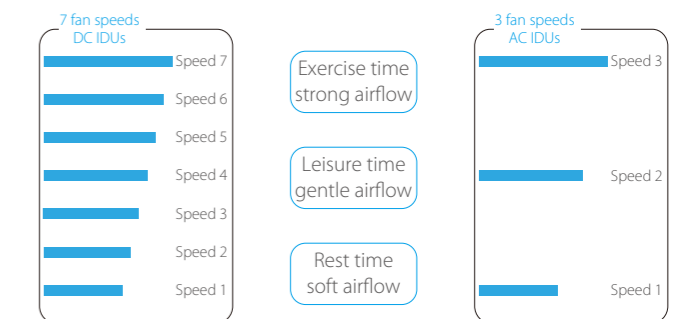
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

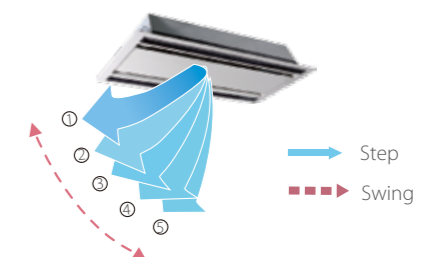
Multiple Fan Speeds

The DC Series supplies 7 indoor fan speeds and AC Series supplies 3 indoor fan speeds to meet the needs of different indoor conditions.



Multiple Steps Vertical Swing

There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs.



Specifications - AC Series

50Hz Series

Model		MDV-D22Q2/N1(B)	MDV-D28Q2/N1(B)	MDV-D36Q2/N1(B)	MDV-D45Q2/N1(B)	MDV-D56Q2/N1(B)	MDV-D71Q2/N1(B)	
Power supply		1 phase, 220-240V, 50Hz						
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Input	W	57	57	60	92	108	154
Heating ²	Capacity	kW	2.6	3.2	4	5	6.3	8
	Input	W	57	57	60	92	108	154
Indoor fan motor	Type	AC						
	Quantity	1						
Refrigerant type	R410A							
Airflow rate (H/M/L)	m ³ /h	654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1200/1000/770	
Sound pressure level (H/M/L) ³	dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34	
Indoor unit	Dimension ⁴ (WxHxD)	mm 1172x299x591						
	Packing (WxHxD)	mm 1355x400x675						
	Net/Gross weight	kg 34/42.5			kg 36/44.5			
Panel	Dimension (WxHxD)	mm 1430x53x680						
	Packing (WxHxD)	mm 1525x130x765						
	Net/Gross weight	kg 10.5/15						
Pipe connections	Liquid pipe	mm Ø6.35			mm Ø9.53			
	Gas pipe	mm Ø12.7			mm Ø15.9			
	Drain pipe	mm OD Ø32						

Specifications - AC Series

60Hz Series

Model		MDV-D22Q2/VN1(B)	MDV-D28Q2/VN1(B)	MDV-D36Q2/VN1(B)	MDV-D45Q2/VN1(B)	MDV-D56Q2/VN1(B)	MDV-D71Q2/VN1(B)	
Power supply		1 phase, 220-240V, 60Hz						
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Input	W	78	78	83	115	133	205
Heating ²	Capacity	kW	2.6	3.2	4	5	6.3	8
	Input	W	78	78	83	115	133	205
Indoor fan motor	Type	AC						
	Quantity	1						
Refrigerant type	R410A							
Airflow rate (H/M/L)	m ³ /h	674/509/381	674/509/381	740/577/435	878/689/561	941/776/654	1236/1110/864	
Sound pressure level (H/M/L) ³	dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34	
Indoor unit	Dimension ⁴ (WxHxD)	mm 1172x299x591						
	Packing (WxHxD)	mm 1355x400x675						
	Net/Gross weight	kg 34/42.5			kg 36/44.5			
Panel	Dimension (WxHxD)	mm 1430x53x680						
	Packing (WxHxD)	mm 1525x130x765						
	Net/Gross weight	kg 10.5/15						
Pipe connections	Liquid pipe	mm Ø6.35			mm Ø9.53			
	Gas pipe	mm Ø12.7			mm Ø15.9			
	Drain pipe	mm OD Ø32						

- 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 1.4m below the unit in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

EASY INSTALLATION

High Airflow

A high airflow rate ensures even airflow and temperature throughout the room, even in high ceiling installations.



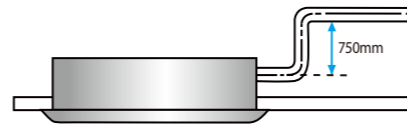
Easy Installation

The slim, compact design make the Two-way Cassette ideal for interiors with limited ceiling space. Models 18 to 36 are just 153mm high whilst models 45 to 71 are 189mm high.



High-lift Drain Pump

A drain pump with a 750mm raise height is fitted as standard, simplifying installation of the drain piping.



Specifications - DC Series

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	
Airflow 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	
Indoor unit	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 Ø6.35/Ø12.7			
	Drain pipe	mm OD Ø32			

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	
Airflow 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	
Indoor unit	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 Ø6.35/Ø12.7	mm Ø9.53/Ø15.9		
	Drain pipe	mm OD Ø32			

- 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 1.4m below the unit in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Compact Four-way Cassette



Compact design allows installation in shallow ceilings.

Key Features

Compact Four-way Cassette		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Fresh air intake	×	●
	Dirty filters indicator signal	●	●
Air flow	360° airflow	●	●
	Multiple fan speeds	7+auto	3+auto
	Multiple steps vertical swing	5+auto	5+auto
Easy installation	Compact size	●	●
	High-lift drain pump	Rated head: 1000mm Raise height: 500mm	Rated head: 1000mm Raise height: 500mm

Note:
●: equipped as standard; ×: without this function

COMFORT

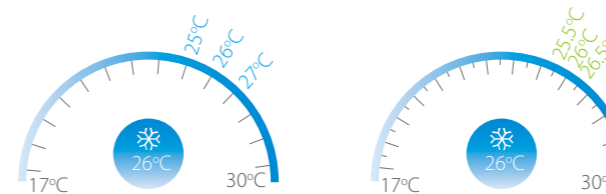
Quiet Operation

The Compact Four-way Cassette's optimized, low resistance air outlets reduce noise levels to as low as 22dB(A).



0.5°C/1°C Setting Temperature Adjustment

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



Digital Display On/Off

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



Buzzer Sound On/Off

Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

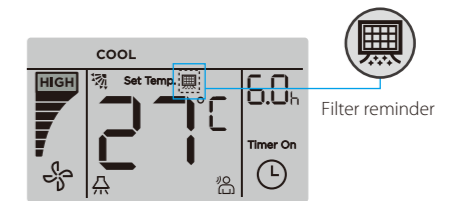
Fresh Air Intake

A reserved outside air intake port allows outdoor fresh air to be introduced directly into the unit, negating the need for a separate ventilation system.



Dirty Filters Indicator Signal

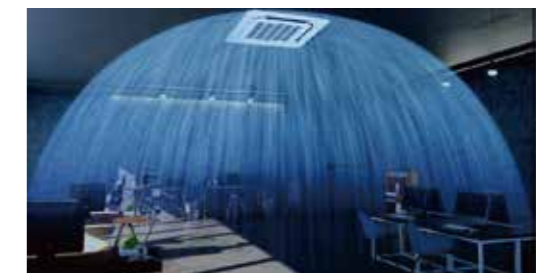
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

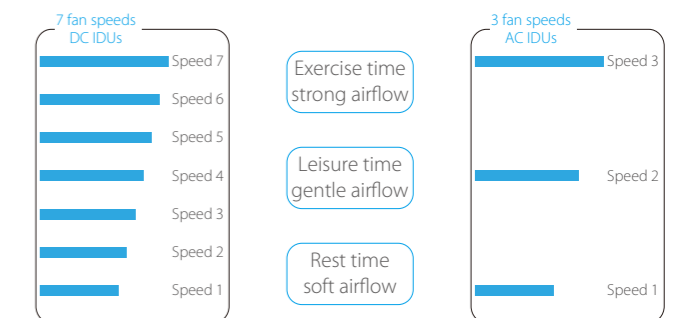
360° Airflow

The Compact Four-way Cassette's 360° air outlets provide strong airflow circulation to cool or heat every corner of a room and evenly control temperature.



Multiple Fan Speeds

The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



Four-way Cassette



360° airflow for immediate, equal distribution of wider-angle cooling and heating, idea for standard ceilings.

Key Features

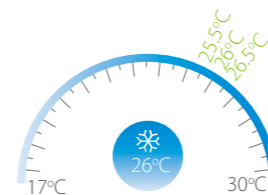
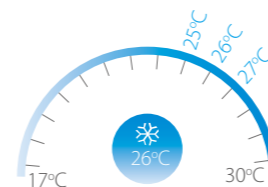
Four-way Cassette		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	○ (G3-class) (28-140)	●
	Fresh air intake	●	●
	Dirty filters indicator signal	●	●
Air flow	360° airflow	●	●
	Individual louver control	○	○
	Soft wind	●	●
	Multiple fan speeds	7+auto	3+auto
	Multiple steps vertical swing	5+auto	5+auto
Easy installation	Compact size	●	●
	High ceiling installation	●	●
	High-lift drain pump	Rated head: 1200mm Raise height: 750mm	Rated head: 1200mm Raise height: 750mm

Note:
●: equipped as standard; ○: customization option

COMFORT

0.5°C/1°C Setting Temperature Adjustment

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



Digital Display On/Off

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



Buzzer Sound On/Off

Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Optional G3-class Air Filter

The DC Four-way Cassette supports 30Pa external static pressure for the G3-class filter installation. Filtering effect of the G3-class filter reaches up to 80%-90% against coarse dust (particle size > 10 μm), creating a cleaner living environment.

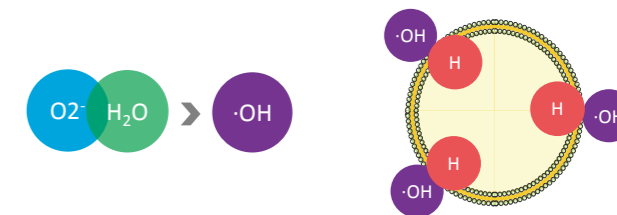


The optional filter comply with EN779:2012

Note: This function is available for 360° panel only.

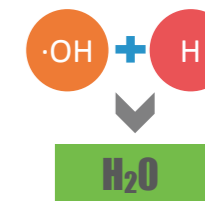
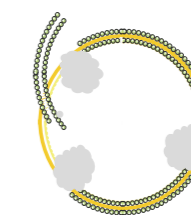
Ionizer Sterilization

The powerful Ionizer protects you from bad odors and harmful bacteria. The circulating sterilization rate is over 96%.



1. Negative ions combine with water molecules to form OH radicals

2. OH radical extraction of hydrogen from bacterial proteins

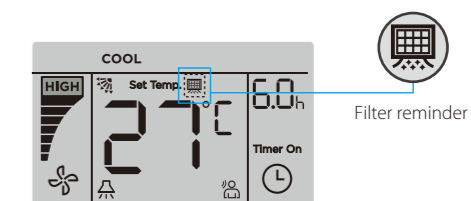


3. Components of bacterial tissues are destroyed and become ineffective (realize sterilization)

4. OH radicals eventually reduce to natural water molecules (pollution-free)

Dirty Filters Indicator Signal

The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

360° Airflow

New design, round air flow path ensures uniform air flow and temperature distribution.



Individual louver control*

The Individual louver control can control the motors separately, making it possible to control all four louvers independently.



*This function is available as a customization option.

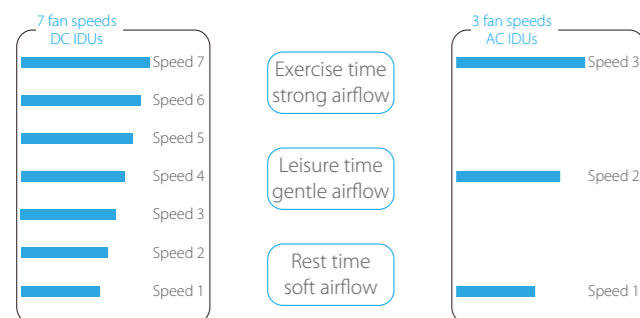
Soft Wind Mode

In soft wind mode, supply air against the ceiling to create windless environment, more comfort.



Multiple Fan Speeds

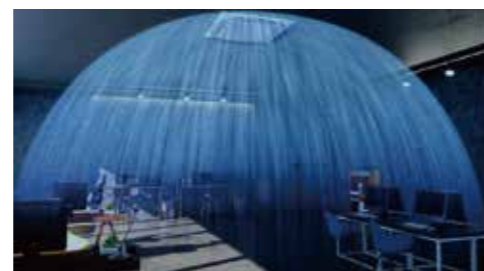
The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



EASY INSTALLATION

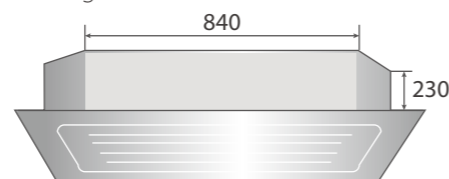
High Ceiling Installation

The Four-way Cassette reserves a super high fan speed for high ceiling installation, it can provide power full cooling and heating up to 4.2m in height from floor.



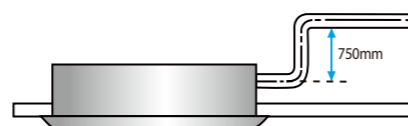
Compact Size

The height of models 28 to 80 are just 230mm whilst models 90 to 160 are 300mm, making the Four-way Cassette idea for standard ceilings.



High-lift Drain Pump

A drain pump with a 750mm raise height is fitted as standard, simplifying installation of the drain piping.



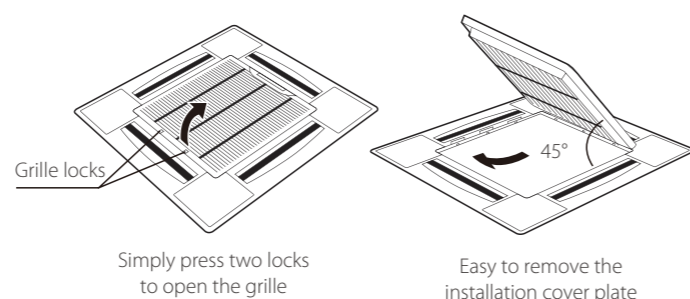
Sub Duct

Connecting a sub-duct enables an indoor unit to be used to also cool a smaller nearby space.



Convenient Panel Installation

The user-friendly design makes the panels very easy to install and simplifies field work.



Specifications - DC Series

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
Heating ²	Capacity	kW	4.0	4.5	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
	Power input	W	40	45	50	60	70
Airflow 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
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	840x230x840				
	Packed dimensions (WxHxD)	mm	955x260x955				
	Net/Gross weight	kg	21.3/25.8	21.3/25.8	23.2/27.6	23.2/27.6	23.2/27.6
Panel	Net dimensions (WxHxD)	mm	950x54.5x950				
	Packed dimensions (WxHxD)	mm	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
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
Airflow 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	
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	840x230x840		840x300x840		950x300x950	
	Packed dimensions (WxHxD)	mm	955x260x955		955x330x955		1050x335x1050	
	Net/Gross weight	kg	23.2/27.6		28.4/33.8		30.7/35.8	
Panel	Net dimensions (WxHxD)	mm	950x54.5x950				1050x55.0x1050	
	Packed dimensions (WxHxD)	mm	1035x90x1035				1115x100x1115	
	Net/Gross weight	kg	5.5/8.2				7.4/9.7	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9					
	Drain pipe	mm	OD Φ32					

- 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 1.4m below the unit in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications - AC Series

50Hz Series

Model	MDV-D28Q4/N1-E(B)	MDV-D36Q4/N1-E(B)	MDV-D45Q4/N1-E(B)	MDV-D56Q4/N1-E(B)	MDV-D71Q4/N1-E(B)		
Power supply	1 phase, 220-240V, 50Hz						
Cooling ¹	Capacity	kW	2.8	3.6	4.5	5.6	7.1
	Power input	W	80	80	88	88	88
Heating ²	Capacity	kW	3.2	4	5	6.3	8
	Power input	W	80	80	88	88	88
Indoor fan motor	Type	AC					
	Quantity	1					
Refrigerant type	R410A						
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) ³	dB(A)	32/31/30	32/31/30	36/34/33	36/34/33	38/36/35	
Indoor unit	Dimension ⁴ (WxHxD)	840x230x840					
	Packing (WxHxD)	955x260x955					
	Net/Gross weight	21.5/26.7		23.7/28.9			
Panel	Dimension (WxHxD)	950x50x950					
	Packing (WxHxD)	1035x89x1035					
	Net/Gross weight	5.8/7.9					
Pipe connections	Liquid pipe	mm		Φ6.35	Φ9.53		
	Gas pipe	mm		Φ12.7	Φ15.9		
	Drain pipe	mm					ODΦ32

Model	MDV-D80Q4/N1-E(B)	MDV-D90Q4/N1-E(B)	MDV-D100Q4/N1-E(B)	MDV-D112Q4/N1-E(B)	MDV-D140Q4/N1-E(B)		
Power supply	1 phase, 220-240V, 50Hz						
Cooling ¹	Capacity	kW	8	9	10	11.2	14
	Power input	W	110	140	165	165	176
Heating ²	Capacity	kW	9	10	11.1	12.5	16
	Power input	W	110	140	165	165	176
Indoor fan motor	Type	AC					
	Quantity	1					
Refrigerant type	R410A						
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) ³	dB(A)	42/39/37	43/39/38	45/42/40	45/42/40	46/41/39	
Indoor unit	Dimension ⁴ (WxHxD)	mm		840x230x840	840x300x840		
	Packing (WxHxD)	mm		955x260x955	955x330x955		
	Net/Gross weight	kg		23.7/28.9	28.7/34.1	28.7/34.1	30.9/36.3
Panel	Dimension (WxHxD)	mm					950x50x950
	Packing (WxHxD)	mm					1035x89x1035
	Net/Gross weight	kg					5.8/7.9
Pipe connections	Liquid pipe	mm					Φ9.53
	Gas pipe	mm					Φ15.9
	Drain pipe	mm					ODΦ32

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.
- Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications - AC Series

60Hz Series

Model	MDV-D28Q4/VN1-E(B)	MDV-D36Q4/VN1-E(B)	MDV-D45Q4/VN1-E(B)	MDV-D56Q4/VN1-E(B)	MDV-D71Q4/VN1-E(B)	MDV-D80Q4/VN1-E(B)		
Power supply	1 phase, 220-240V, 60Hz							
Cooling ¹	Capacity	kW	2.8	3.6	4.5	5.6	7.1	8
	Input	W	80	80	88	88	105	120
Heating ²	Capacity	kW	3.2	4	5	6.3	8	9
	Input	W	80	80	88	88	105	120
Indoor fan motor	Type	AC						
	Quantity	1						
Refrigerant type	R410A							
Airflow rate (H/M/L)	m ³ /h	791/674/596	791/674/596	942/777/662	942/777/662	1235/1013/805	1235/1013/805	
Sound pressure level (H/M/L) ³	dB(A)	30/25/22	30/25/22	35/31/27	35/31/27	43/37/31	43/37/31	
Indoor unit	Dimension ⁴ (WxHxD)	mm						840x230x840
	Packing (WxHxD)	mm						955x260x955
	Net/Gross weight	kg			21.5/26.7	23.7/28.9		
Panel	Dimension (WxHxD)	mm						950x50x950
	Packing (WxHxD)	mm						1035x89x1035
	Net/Gross weight	kg						5.8/7.9
Pipe connections	Liquid pipe	mm			Φ6.35	Φ9.53		
	Gas pipe	mm			Φ12.7	Φ15.9		
	Drain pipe	mm						OD Φ32

Model	MDV-D90Q4/VN1-E(B)	MDV-D100Q4/VN1-E(B)	MDV-D112Q4/VN1-E(B)	MDV-D140Q4/VN1-E(B)		
Power supply	1 phase, 220-240V, 60Hz					
Cooling ¹	Capacity	kW	9	10	11.2	14
	Input	W	187	200	200	220
Heating ²	Capacity	kW	10	11.1	12.5	16
	Input	W	187	200	200	220
Indoor fan motor	Type	AC				
	Quantity	1				
Refrigerant type	R410A					
Airflow rate (H/M/L)	m ³ /h	1333/1158/957	1634/1219/1139	1692/1243/1157		
Sound pressure level (H/M/L) ³	dB(A)	43/38/32	45/37/35	46/38/37		
Indoor unit	Dimension ⁴ (WxHxD)	mm				840x300x840
	Packing (WxHxD)	mm				955x330x955
	Net/Gross weight	kg			28.7/34.1	30.9/36.3
Panel	Dimension (WxHxD)	mm				950x50x950
	Packing (WxHxD)	mm				1035x89x1035
	Net/Gross weight	kg				5.8/7.9
Pipe connections	Liquid pipe	mm				Φ9.53
	Gas pipe	mm				Φ15.9
	Drain pipe	mm				OD Φ32

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.
- Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

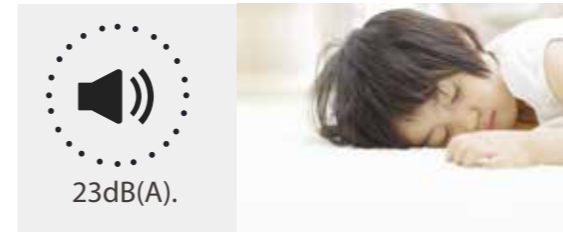
Medium Static Pressure Duct



COMFORT

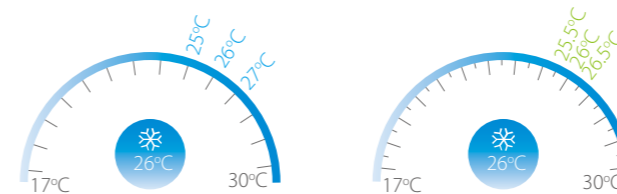
Quiet Operation

The Medium Static Pressure Duct indoor unit utilizes centrifugal blowers, reducing noise levels to as low as 23dB(A), and is an excellent choice for hotels and other noise-sensitive locations.



0.5°C/1°C Setting Temperature Adjustment

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



Digital Display and Buzzer Sound On/Off

Indoor unit displays can be shut off at night and buzzer sound can be set off to not disturb the user, creating a better environment for rest.



Innovative Puro-air Kit

Puro-Air kit, powered by OSRAM's UVC lamps, can effectively kill bacteria, viruses and odors of indoor air to provide a healthy and safe indoor environment. It is also innovatively designed so that it could prevent UV damage to the eyes, skin, and respiratory tract.

Puro-Air Kit Protectors of health and safety

OSRAM From Germany -OSRAM quality UV light source

1st The world's first air conditioning sterilization product certification

99.9% Effective killing rate of white grape fungus

99.9% Effective killing rate of H1N1

98% Effective killing rate of natural bacteria

CE **Ozone-Free**
UV leakage-Free

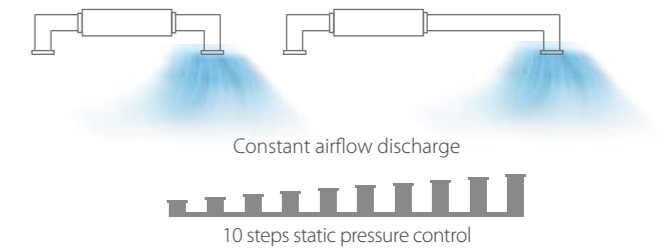
*The indoor unit needs to be customized in order to use the Puro-air Kit.



AIR FLOW

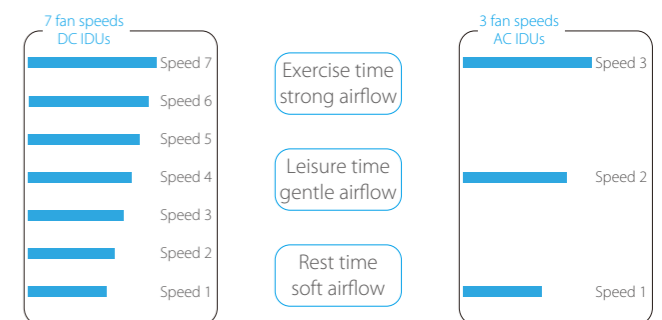
Static Pressure 10 Steps Control

Depending on the installation environment, Medium Static Pressure Duct is controlled the static pressure up to 10 steps via wired remote controller, for providing comfortable environment suitable for any environment.



Multiple Fan Speeds

The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



Slim, compact design for limited space with duct distribution to the indoor space.

Key Features

Medium Static Pressure Duct		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	○ (G3-class)	○ (G3-class)
	Innovative puro-air kit	●	●
	Fresh air intake	●	●
	Dirty filters indicator signal	●	●
Air flow	Adjustable ESP	10-steps	×
	Multiple fan speeds	7+auto	3+auto
Easy installation	Compact size	●	●
	Stylish air discharge panel	○ (17 to 71)	○ (17 to 71)
	Flexible air inlet port installation	●	●
	High-lift drain pump	Rated head: 1200mm Raise height: 750mm	Rated head: 1200mm Raise height: 750mm

Note:
●: equipped as standard; ○: customization option; ×: without this function

HEALTH

Optional G3-class Air Filter

G3-class filter is optional for Medium Static Pressure Duct installation. Filtering effect of the G3-class filter reaches up to 80%-90% against coarse dust (particle size > 10 μm), creating a cleaner living environment.

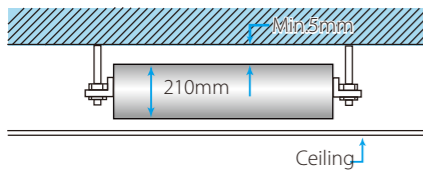


The optional filter comply with EN779:2012

EASY INSTALLATION

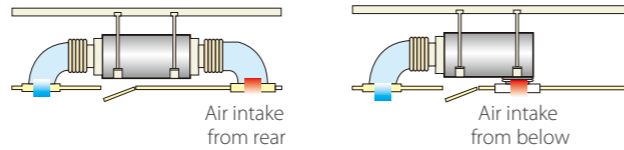
Compact Size

Models 22 to 71 are just 210mm high whilst models 80 to 112 are 270mm high and model 140 to 160 are 300mm high.



Flexible Air Inlet Port Installation

To provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the underside or the rear of the unit.



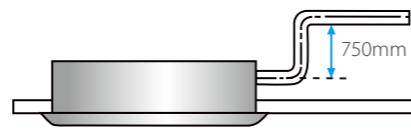
Stylish Air Discharge Panel

Stylish air discharge panel can be integrated with any decoration style (optional for models 17 to 71).



High-lift Drain Pump

A drain pump with a 750mm raise height is fitted as standard, simplifying installation of the drain piping.



Specifications - DC Series

Standard Series

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
Airflow rate ³		m ³ /h	520/480/440/400/360/330/300		
External static pressure		Pa	10 (0~70)		
Sound pressure level ⁴		dB(A)	32/31/29/28/26/25/23		
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	780x210x500		
	Packed dimensions (WxHxD)	mm	870x285x525		
	Net/Gross weight	kg	18/21		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/ Φ12.7		
	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
Airflow rate ³		m ³ /h	800/740/680/620/540/480/400	830/790/750/710/660/620/580	1000/960/900/840/780/720/680
External static pressure		Pa	10 (0~70)		
Sound pressure level ⁴		dB(A)	36/34/32/31/29/27/25	36/34/33/32/30/29/28	37/35/33/32/30/29/28
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	1000x210x500		
	Packed dimensions (WxHxD)	mm	1090x285x525		
	Net/Gross weight	kg	21.5/25		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/ Φ12.7	Φ9.53/Φ15.9	
	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
Airflow rate ³		m ³ /h	1260/1180/1100/1020/940/860/780	1500/1430/1360/1290/1210/1140/1080	1960/1860/1760/1660/1560/1460/1360	2300/2100/2000/1900/1750/1600/1450	
External static pressure		Pa	20 (10~100)				
Sound pressure level ⁴		dB(A)	37/35/34/33/31/29/28	39/38/38/37/35/34/33	41/39/38/37/36/35/33	42/41/39/38/37/35/34	
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	1230x270x775				
	Packed dimensions (WxHxD)	mm	1355x355x795				
	Net/Gross weight	kg	36.5/44.5	37/45	46.5/55.5	54/63	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9				
	Drain pipe	mm	OD Φ25				

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 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments. All specifications are measured at standard external static pressure.

Specifications - DC Series

ESP Increased Series

Model			MI2-22T2DHN1(A)	MI2-28T2DHN1(A)	MI2-36T2DHN1(A)
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
Airflow rate ³		m ³ /h	580/540/500/460/430/400/370		
External static pressure		Pa	10 (10~80)		
Sound pressure level ⁴		dB(A)	33/32/31/30/28/27/25		
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	780x210x500		
	Packed dimensions (WxHxD)	mm	870x285x525		
	Net/Gross weight	kg	18/21		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	Drain pipe	mm	OD Φ25		

Model			MI2-45T2DHN1(A)	MI2-56T2DHN1(A)	MI2-71T2DHN1(A)	MI2-90T2DHN1(A)
Power supply			1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	4.5	5.6	7.1	9.0
	Power input	kBtu/h	15.4	19.1	24.2	30.7
Heating ²	Capacity	kW	5.0	6.3	8.0	10.0
	Power input	kBtu/h	17.1	21.5	27.3	34.1
Airflow rate ³		m ³ /h	910/850/790/730/670/610/550	1000/945/885/825/765/705/635	1270/1200/1130/1060/990/920/850	1710/1600/1490/1380/1270/1160/1060
External static pressure		Pa	40 (30~150)			
Sound pressure level ⁴		dB(A)	38/36/35/34/32/30/28	39/38/37/35/33/31/29	38/36/34/32/31/29/28	41/40/38/37/35/33/32
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	1010x270x635		1230x270x775	
	Packed dimensions (WxHxD)	mm	1145x355x705		1355x350x795	
	Net/Gross weight	kg	29/34		36.5/44.5	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/ Φ12.7	Φ9.53/Φ15.9		
	Drain pipe	mm	OD Φ25			

Model			MI2-112T2DHN1(A)	MI2-140T2DHN1(A)	MI2-160T2DHN1(A)
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	11.2	14.0	16.0
	Power input	kBtu/h	38.2	47.8	54.6
Heating ²	Capacity	kW	12.5	15.5	18.0
	Power input	kBtu/h	42.7	52.9	61.4
Airflow rate ³		m ³ /h	1870/1760/1660/1560/1460/1365/1275	2320/2210/2110/2010/1900/1800/1700	2300/2100/2000/1900/1750/1600/1450
External static pressure		Pa	40 (30~150)		
Sound pressure level ⁴		dB(A)	40/38/37/36/35/34/33	43/42/41/40/39/38/37	42/41/39/38/37/35/34
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	1290x300x865		
	Packed dimensions (WxHxD)	mm	1400x375x925		
	Net/Gross weight	kg	46.5/55.5		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	OD Φ25		

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 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments. All specifications are measured at standard external static pressure.

Specifications - AC Series

50Hz Series

Model			MDV-D22T2/N1-DA5(B)	MDV-D28T2/N1-DA5(B)	MDV-D36T2/N1-DA5(B)	MDV-D45T2/N1-DA5(B)	MDV-D56T2/N1-DA5(B)
Power supply			1 phase, 220-240V,50Hz				
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6
	Input	W	57	57	61	98	103
Heating ²	Capacity	kW	2.6	3.2	4	5	6.3
	Input	W	57	57	61	98	103
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
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 (Std(Min~Max))	Pa		10(0~30)	10(0~30)	10(0~30)	10(0~30)	10(0~30)
Sound pressure level (H/M/L) ³	dB(A)		31/24/21	31/24/21	35/28/24	36/29/26	36/29/27
Indoor unit	Dimension ⁴ (WxHxD)	mm	778x210x500			997x210x500	
	Packing (WxHxD)	mm	870x285x525			1115x285x525	
	Net/Gross weight	kg	17.5/20			22/25	
Piping connections	Liquid pipe	mm	Φ6.35			Φ9.53	
	Gas pipe	mm	Φ12.7			Φ15.9	
	Drain pipe	mm	OD Φ25				

Model			MDV-D71T2/N1-DA5(B)	MDV-D80T2/N1-BA5(B)	MDV-D90T2/N1-BA5(B)	MDV-D112T2/N1-BA5(B)	MDV-D140T2/N1-BA5(B)
Power supply			1 phase, 220-240V,50Hz				
Cooling ¹	Capacity	kW	7.1	8	9	11.2	14
	Input	W	140	198	200	313	274
Heating ²	Capacity	kW	8	9	10	12.5	15.5
	Input	W	140	198	200	313	274
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
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 (Std(Min~Max))	Pa		10(0~30)	20(10~50)	20(10~50)	40(10~80)	40(10~100)
Sound pressure level (H/M/L) ³	dB(A)		36/30/27	45/40/37	45/40/37	48/42/38	48/43/39
Indoor unit	Dimension ⁴ (WxHxD)	mm	1218x210x500	1230x270x775			1290x300x865
	Packing (WxHxD)	mm	1335x285x525	1355x350x795			1400x375x925
	Net/Gross weight	kg	27.5/31	37.5/43			46.5/55.5
Piping connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
	Drain pipe	mm	OD Φ25				

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.
- Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

All specifications are measured at standard external static pressure.

Specifications - AC Series

60Hz Series

Model			MDV-D22T2/VN1-DA5(B)	MDV-D28T2/VN1-DA5(B)	MDV-D36T2/VN1-DA5(B)	MDV-D45T2/VN1-DA5(B)	MDV-D56T2/VN1-DA5(B)
Power supply			1 phase, 220-240V,60Hz				
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6
	Input	W	66	72	77	100	100
Heating ²	Capacity	kW	2.6	3.2	4	5	6.3
	Input	W	66	72	77	100	100
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Airflow rate (SH/H/M/L)	m ³ /h		538/456/375	538/456/375	597/514/429	811/684/575	811/684/575
External static pressure (Std(Min~Max))	Pa		10(10~30)				
Sound pressure level (H/M/L) ³	dB(A)		36/35/32	36/35/32	39/38/34	39/38/34	39/38/34
Indoor unit	Dimension ⁴ (WxHxD)	mm	780x210x500			1000x210x500	
	Packing (WxHxD)	mm	870x285x525			1115x285x525	
	Net/Gross weight	kg	17.5/20			22/25	
Pipe connections	Liquid pipe	mm	Φ6.35			Φ9.53	
	Gas pipe	mm	Φ12.7			Φ15.9	
	Drain pipe	mm	OD Φ25				

Model			MDV-D71T2/VN1-DA5(B)	MDV-D80T2/VN1-BA5(B)	MDV-D90T2/VN1-BA5(B)	MDV-D112T2/VN1-BA5(B)	MDV-D140T2/VN1-BA5(B)
Power supply			1 phase, 220-240V,60Hz				
Cooling ¹	Capacity	kW	7.1	8	9	11.2	14
	Input	W	125	133	134	378	352
Heating ²	Capacity	kW	8	9	10	12.5	15.5
	Input	W	125	133	134	378	352
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Airflow rate (SH/H/M/L)	m ³ /h		1029/934/781	1345/1165/1013	1345/1165/1013	1800/1556/1400	1905/1636/1400
External static pressure (Std(Min~Max))	Pa		10(10~30)	20(10~50)	20(10~50)	40(10~80)	40(10~100)
Sound pressure level (H/M/L) ³	dB(A)		41/39/35	45/40/37	45/40/37	48/42/38	48/43/39
Indoor unit	Dimension ⁴ (WxHxD)	mm	1220x210x500	1230x270x775			1290x300x865
	Packing (WxHxD)	mm	1335x285x525	1355x350x795			1400x375x925
	Net/Gross weight	kg	27.5/31	37.5/43			46.5/55.5
Pipe connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
	Drain pipe	mm	OD Φ25				

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.
- Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- 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



High external static pressure with long duct distribution, ideal for large sized spaces.

Key Features

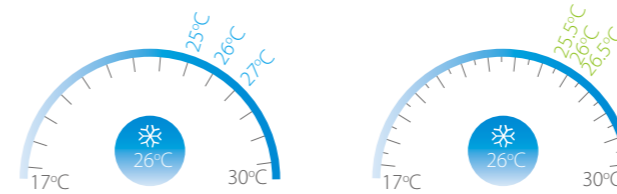
High Static Pressure Duct		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	○ (G3-class)	○ (G3-class)
	Innovative puro-air kit	○	○
	Dirty filters indicator signal	●	●
	Adjustable ESP	20-steps	×
Air flow	Multiple fan speeds	7+auto	3+auto
	Compact size	●	●
Easy installation	Flexible duct design	●	●
	Double-skin drainage pan	●	●
	High-lift water pump box	○	○

Note:
●: equipped as standard; ○: customization option; ×: without this function

COMFORT

0.5°C/1°C Setting Temperature Adjustment

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



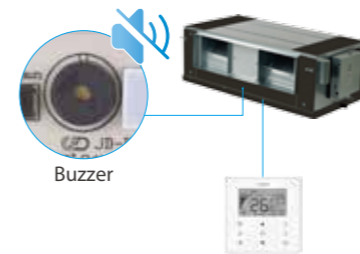
Digital Display On/Off

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



Buzzer Sound On/Off

Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Innovative Puro-air Kit

Puro-Air kit, powered by OSRAM's UVC lamps, can effectively kill bacteria, viruses and odors of indoor air to provide a healthy and safe indoor environment. It is also innovatively designed so that it could prevent UV damage to the eyes, skin, and respiratory tract.

Puro-Air Kit Protectors of health and safety

OSRAM From Germany - OSRAM quality UV light source

1st The world's first air conditioning sterilization product certification

99.9% Effective killing rate of white grape fungus

99.9% Effective killing rate of H1N1

98% Effective killing rate of natural bacteria

Ozone-Free
UV leakage-Free



*The indoor unit needs to be customized in order to use the Puro-air Kit.

Optional G3-class Air Filter

G3-class filter is optional for High Static Pressure Duct installation. Filtering effect of the G3-class filter reaches up to 80%-90% against coarse dust (particle size > 10 μm), creating a cleaner living environment.

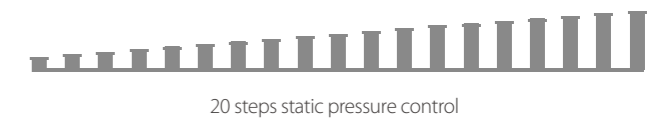
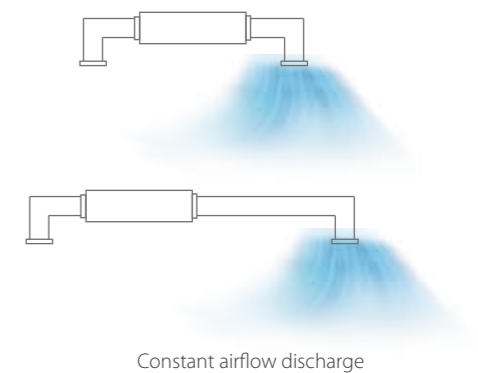


The optional filter comply with EN779:2012

AIR FLOW

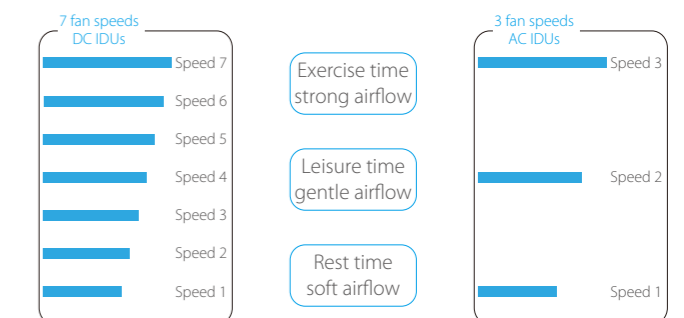
Static Pressure 20 Steps Control

Depending on the installation environment, 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.



Multiple Fan Speeds

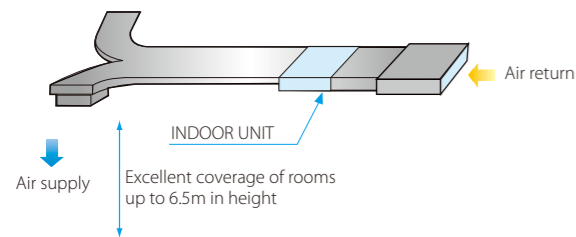
The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



EASY INSTALLATION

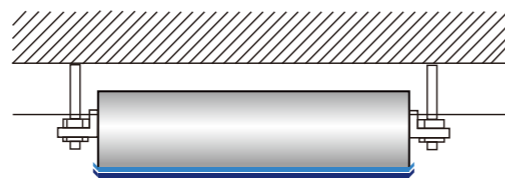
Flexible Duct Design

High Static Pressure Duct supplies a wide static pressure from 30Pa to 400Pa which can support short to long duct with high ceiling air supply.



Double-skin Drainage Pan

A double-skin drainage pan provides double protection for ceilings.



Specifications - DC Series

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
	kBtu/h	24.2	27.3	30.7	38.2	
Heating ²	Capacity	kW	180	180	220	380
	kBtu/h	8.0	9.0	10.0	12.5	
Airflow rate ³	Power input	W	27.3	30.7	34.1	42.7
	W	180	180	220	380	
External static pressure	Pa	1360/1327/1293/1260 /1227/1193/1160				
Sound pressure level ⁴	dB(A)	1420/1373/1327/1280 /1233/1187/1140				
Indoor unit	Net dimensions ⁵ (WxHxD)	mm				
	Packed dimensions(WxHxD)	mm				
Pipe connections	Net/Gross weight	kg				
	Liquid/Gas pipe	mm				
Drain pipe	mm					

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
	kBtu/h	47.8	54.6	68.2	85.3	
Heating ²	Capacity	kW	420	700	990	1200
	kBtu/h	16.0	17.0	22.5	26.0	
Airflow rate ³	Power input	W	54.6	58.0	76.8	88.7
	W	420	700	990	1200	
External static pressure	Pa	2240/2133/2027/1920 /1813/1707/1600				
Sound pressure level ⁴	dB(A)	2660/2530/2400/2270 /2140/2010/1880				
Indoor unit	Net dimensions ⁵ (WxHxD)	mm				
	Packed dimensions(WxHxD)	mm				
Pipe connections	Net/Gross weight	kg				
	Liquid/Gas pipe	mm				
Drain pipe	mm					

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
	kBtu/h	95.0	136.5	153.6	191.1	
Heating ²	Capacity	kW	1200	1800	2272	2272
	kBtu/h	31.5	45.0	56.0	63.0	
Airflow rate ³	Power input	W	107.5	153.6	191.1	215.0
	W	1200	1800	2272	2272	
External static pressure	Pa	4330/4230/4130/4030 /3930/3830/3730				
Sound pressure level ⁴	dB(A)	6500/6150/5800/5450 /5100/4750/4400				
Indoor unit	Net dimensions ⁵ (WxHxD)	mm				
	Packed dimensions(WxHxD)	mm				
Pipe connections	Net/Gross weight	kg				
	Liquid/Gas pipe	mm				
Drain pipe	mm					

- 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 1.4m below the unit in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
- All specifications are measured at standard external static pressure.

Specifications - AC Series

50Hz Series

Model	MDV-D71T1/N1-B(B)	MDV-D80T1/N1-B(B)	MDV-D90T1/N1-B(B)	MDV-D112T1/N1-B(B)	MDV-D140T1/N1-B(B)	MDV-D160T1/N1-B(B)		
Power supply	1 phase, 220-240V, 50Hz							
Cooling ¹	Capacity	kW	7.1	8	9	11.2	14	16
	Input	W	263	263	423	524	724	940
Heating ²	Capacity	kW	8	9	10	12.5	16	17
	Input	W	263	263	423	524	724	940
Indoor fan motor	Type	AC						
	Quantity	1						
Refrigerant type	R410A							
Airflow rate (SH/H/M/L)	m ³ /h	1395/1315/1248/1204						
External static pressure (Std/Min~Max)	Pa	25(25~196)						
Sound pressure level (SH/H/M/L) ³	dB(A)	48/46/44/43						
Indoor unit	Dimension ⁴ (WxHxD)	mm						
	Packing (WxHxD)	mm						
	Net/Gross weight	kg						
Piping connections	Liquid pipe	mm						
	Gas pipe	mm						
	Drain pipe	mm						

Model	MDV-D200T1/N1-B(B)	MDV-D250T1/N1-B(B)	MDV-D280T1/N1-B(B)	MDV-D400T1/N1(B)	MDV-D450T1/N1(B)	MDV-D560T1/N1(B)		
Power supply	1 phase, 220-240V, 50Hz							
Cooling ¹	Capacity	kW	20	25	28	40	45	56
	Input	W	1408	1408	1408	2100	2100	2800
Heating ²	Capacity	kW	22.5	26	31.5	45	50	63
	Input	W	1408	1408	1408	2100	2100	2800
Indoor fan motor	Type	AC						
	Quantity	2						
Refrigerant type	R410A							
Airflow rate (SH/H/M/L)	m ³ /h	4600/3765/2900/2100						
External static pressure (Std/Min~Max)	Pa	250(50~300)						
Sound pressure level (SH/H/M/L) ³	dB(A)	57/56/52/47						
Indoor unit	Dimension ⁴ (WxHxD)	mm						
	Packing (WxHxD)	mm						
	Net/Gross weight	kg						
Piping connections	Liquid pipe	mm						
	Gas pipe	mm						
	Drain pipe	mm						

- 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.
 - Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
- All specifications are measured at standard external static pressure.

Model MDV-			MDV-D71T1/VN1-B(B)	MDV-D80T1/VN1-B(B)	MDV-D90T1/VN1-B(B)	MDV-D112T1/VN1-B(B)	MDV-D140T1/VN1-B(B)	MDV-D160T1/VN1-B(B)	
Power supply			1 phase, 220-240V, 60Hz						
Cooling ¹	Capacity	kW	7.1	8	9	11.2	14	15	
	Input	W	414	402	409	409	527	532	
Heating ²	Capacity	kW	8	9	10	12.5	16	16.5	
	Input	W	414	402	409	409	527	532	
Indoor fan motor	Type		AC						
	Quantity		1						
Refrigerant type			R410A						
Airflow rate (SH/H/M/L)	m ³ /h		1614/1507/1406/1310	1589/1483/1386/1292	2089/1977/1729/1569	2029/1914/1694/1544	2892/2683/2472/2339	2892/2683/2472/2339	
External static pressure (Std/Min~Max)	Pa		25(25~196)	37(37~196)	37(37~196)	50(50~196)	50(50~196)	50(50~196)	
Sound pressure level (SH/H/M/L) ³	dB(A)		48/46/45/44	48/46/45/44	52/49/47/44	52/49/47/46	53/50/48/47	54/52/50/49	
Indoor unit	Dimension ⁴ (WxHxD)	mm	965x423x690				1322x423x691		
	Packing (WxHxD)	mm	1090x440x768				1436x450x768		
	Net/Gross weight	kg	46.5/52	46.5/52	48/53	48/53	67/73	67/73	
Pipe connections	Liquid pipe	mm	Φ9.53						
	Gas pipe	mm	Φ15.9						
	Drain pipe	mm	OD Φ25						

Model MDV-			MDV-D200T1/VN1-B(B)	MDV-D250T1/VN1-B(B)	MDV-D280T1/VN1-B(B)	MDV-D400T1/VN1(B)	MDV-D450T1/VN1(B)	MDV-D560T1/VN1(B)	
Power supply			1 phase, 220-240V, 60Hz						
Cooling ¹	Capacity	kW	20	25	28	40	45	56	
	Input	W	1670	1670	1670	2833	2833	3243	
Heating ²	Capacity	kW	22.5	26	31.5	45	50	63	
	Input	W	1670	1670	1670	2833	2833	3243	
Indoor fan motor	Type		AC						
	Quantity		2			3			
Refrigerant type			R410A						
Airflow rate (SH/H/M/L)	m ³ /h		5000/4385/3700/3000			7700/6377/5200/4100		8300/6637/5300/4300	
External static pressure (Std/Min~Max)	Pa		250(50~300)			300(50~400)			
Sound pressure level (SH/H/M/L) ³	dB(A)		59/57/54/50			61/58/54/50		60/57/54/52	
Indoor unit	Dimension ⁴ (WxHxD)	mm	1454x515x931			2010x680x905			
	Packing (WxHxD)	mm	1509x550x990			2095x800x964			
	Net/Gross weight	kg	124/135			202/233	202/233	202/233	
Pipe connections	Liquid pipe	mm	Φ12.7			Φ15.9			
	Gas pipe	mm	Φ22.2			Φ28.6			
	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. 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.

All specifications are measured at standard external static pressure.

Wall Mounted



Stylish panel, ideal for rooms with no or narrow ceilings.

Key Features

Wall Mounted	DC Series	AC Series
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Air filter	●
	Dirty filters indicator signal	●
Air flow	Multiple fan speeds	7+auto
	Multiple steps vertical swing	5+auto
Easy installation	Compact size	●
	Pure white stylish panel	4 options
	Exposed installation, no need ceilings	●
	Flexible pipe outlet direction	●

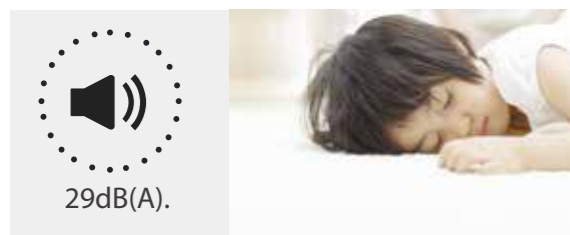
Note:

●: equipped as standard

COMFORT

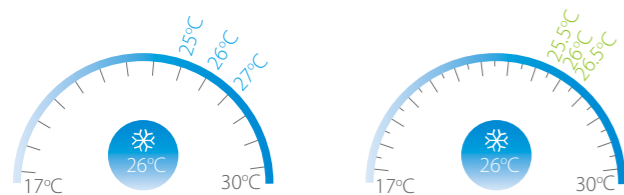
Quiet Operation

The minimum noise level of Wall Mounted is as low as 29dB(A), idea for hotels and other noise-sensitive locations.



0.5°C/1°C Setting Temperature Adjustment

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



Digital Display On/Off

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



Buzzer Sound On/Off

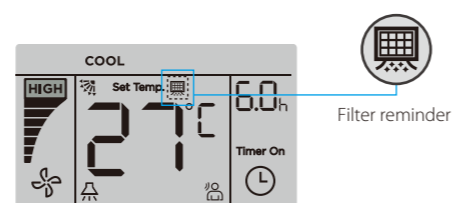
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Dirty Filters Indicator Signal

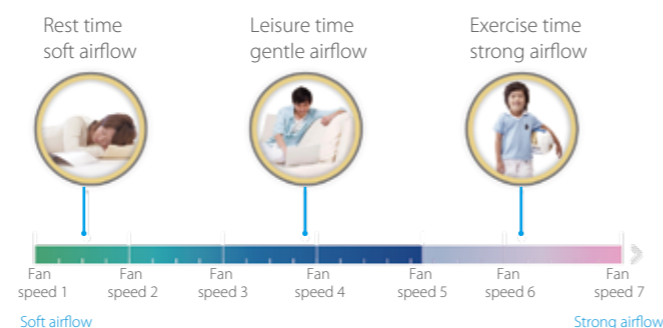
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

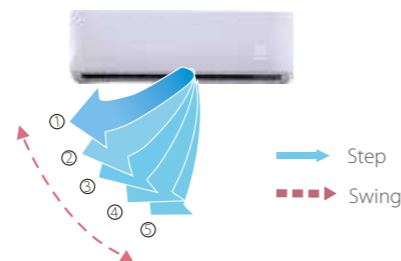
Multiple Fan Speeds

Both DC and AC Series come with 7 indoor fan speed options to meet the needs of different indoor conditions.



Multiple Steps Vertical Swing

There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs.



EASY INSTALLATION

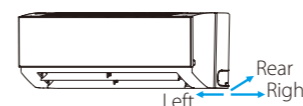
Pure White Stylish Panel

Pure white stylish panel with four options (M2, M9, M10 and M11), perfect fusion in all kinds of decoration.



Flexible Pipe Outlet Direction

Multi-outlet pipe method for both refrigerant pipe and drain pipe: left/right/rear, more flexible for installation.



Exposed Installation, No Need Ceilings

The Wall Mounted can be installed against a wall, no need ceilings, simplifying installation.



Specifications - DC Series

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
Heating ²	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
Airflow 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
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	835x280x203	
	Packed dimensions (WxHxD)	mm	935x385x320	
	Net/Gross weight	kg	8.4/12.1	9.5/13.1
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	
Heating ²	Capacity	kW	4.0	5.0	6.3	
		kBtu/h	13.6	17.1	21.5	
Airflow 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	
Indoor 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	
Heating ²	Capacity	kW	5.5	5.5	8.2	
		kBtu/h	8.0	9.0	10.0	
Airflow 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	
Indoor 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.

Specifications - AC Series

50Hz Series

Model	MDV-D22G/N1-M	MDV-D28G/N1-M	MDV-D36G/N1-M	MDV-D45G/N1-M		
Power supply	1 phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5
	Input	W	29	29	31	45
Heating ²	Capacity	kW	2.4	3.2	4	5
	Input	W	29	29	31	45
Indoor fan motor	Type	AC				
	Quantity	1				
Refrigerant type	R410A					
Airflow rate ³	m ³ /h	446/429/424/409/394/382/373	457/445/433/421/419/410/402	447/429/399/369/339/333/303	648/618/582/563/546/505/476	
Sound pressure level ⁴	dB(A)	34/33/33/32/32/31/31	33/33/32/32/31/31/31	36/35/34/33/32/32/32	37/36/34/34/33/32/31	
Indoor unit	Dimension ⁵ (WxHxD)	mm	835x280x203		990x315x223	
	Packing (WxHxD)	mm	915x353x300		1075x395x300	
	Net/Gross weight	kg	8.5/11.0	8.5/11.0	9.7/12.2	13.8/16.4
Pipe connections	Liquid pipe	mm	Φ6.35			
	Gas pipe	mm	Φ12.7			
	Drain pipe	mm	OD Φ16			

Model	MDV-D56G/N1-M	MDV-D71G/N1-M	MDV-D80G/N1-M	MDV-D90G/N1-M		
Power supply	1 phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	5.6	7.1	8	9
	Input	W	54	77	77	90
Heating ²	Capacity	kW	6.3	8	9	10
	Input	W	54	77	77	90
Indoor fan motor	Type	AC				
	Quantity	1				
Refrigerant type	R410A					
Airflow rate ³	m ³ /h	798/764/723/691/665/627/595	1240/1171/1107/1045/976/914/869	1248/1194/1119/1056/993/914/863	1427/1403/1303/1232/1186/1096/1043	
Sound pressure level ⁴	dB(A)	42/41/40/39/38/37/36	48/47/45/44/42/39/38	48/47/45/43/42/39/38	52/51/50/49/47/45/43	
Indoor unit	Dimension ⁵ (WxHxD)	mm	990x315x223	1194x343x262		
	Packing (WxHxD)	mm	1075x395x300	1265x420x345		
	Net/Gross weight	kg	13.8/16.4	17.4/20.8	17.6/21.0	17.6/21.0
Pipe connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9			
	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 below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications - AC Series

60Hz Series

Model	MDV-D22G/VN1-M	MDV-D28G/VN1-M	MDV-D36G/VN1-M	MDV-D45G/VN1-M		
Power supply	1 phase, 220-240V, 60Hz					
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5
	Input	W	29	29	31	45
Heating ²	Capacity	kW	2.4	3.2	4	5
	Input	W	29	29	31	45
Indoor fan motor	Type	AC				
	Quantity	1				
Refrigerant type	R410A					
Airflow rate ³	m ³ /h	446/429/424/409/394/382/373	457/445/433/421/419/410/402	447/429/399/369/339/333/303	648/618/582/563/546/505/476	
Sound pressure level ⁴	dB(A)	34/33/33/32/32/31/31	33/33/32/32/31/31/31	36/35/34/33/32/32/32	37/36/34/34/33/32/31	
Indoor unit	Dimension ⁵ (WxHxD)	mm	835x280x203		990x315x223	
	Packing (WxHxD)	mm	915x353x300		1075x395x300	
	Net/Gross weight	kg	8.5/11.0	8.5/11.0	9.7/12.2	13.8/16.4
Pipe connections	Liquid pipe	mm	Φ6.35			
	Gas pipe	mm	Φ12.7			
	Drain pipe	mm	OD Φ16			

Model	MDV-D56G/VN1-M	MDV-D71G/VN1-M	MDV-D80G/VN1-M	MDV-D90G/VN1-M		
Power supply	1 phase, 220-240V, 60Hz					
Cooling ¹	Capacity	kW	5.6	7.1	8	9
	Input	W	54	77	77	90
Heating ²	Capacity	kW	6.3	8	9	10
	Input	W	54	77	77	90
Indoor fan motor	Type	AC				
	Quantity	1				
Refrigerant type	R410A					
Airflow rate ³	m ³ /h	798/764/723/691/665/627/595	1240/1171/1107/1045/976/914/869	1248/1194/1119/1056/993/914/863	1427/1403/1303/1232/1186/1096/1043	
Sound pressure level ⁴	dB(A)	42/41/40/39/38/37/36	48/47/45/44/42/39/38	48/47/45/43/42/39/38	52/51/50/49/47/45/43	
Indoor unit	Dimension ⁵ (WxHxD)	mm	990x315x223	1194x343x262		
	Packing (WxHxD)	mm	1075x395x300	1265x420x345		
	Net/Gross weight	kg	13.8/16.4	17.4/20.8	17.6/21.0	17.6/21.0
Pipe connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9			
	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 below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Ceiling & Floor



Two installation options are available: horizontally against the ceiling or vertically against the floor/wall, idea for wide rooms with no ceilings.

Key Features

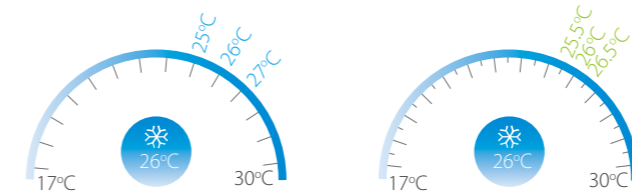
Ceiling & Floor		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	●	●
	Dirty filters indicator signal	●	●
Air flow	Multiple fan speeds	7+auto	3+auto
	Multiple steps vertical swing	5+auto	5+auto
	Horizontal swing	●	●
Easy installation	Pure white stylish panel with slim design	●	●
	Exposed installation, easy installation and maintenance	●	●
	Two installation options	●	●

Note:
● equipped as standard

COMFORT

0.5°C/1°C Setting Temperature Adjustment

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



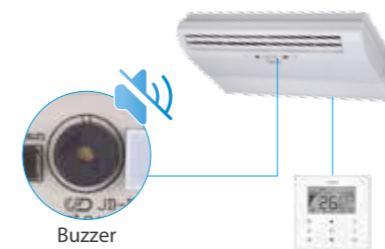
Digital Display On/Off

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



Buzzer Sound On/Off

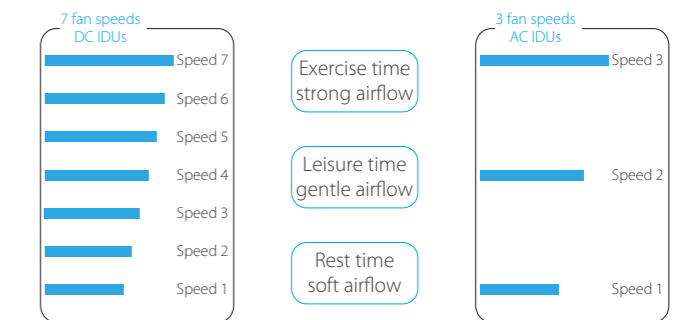
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



AIR FLOW

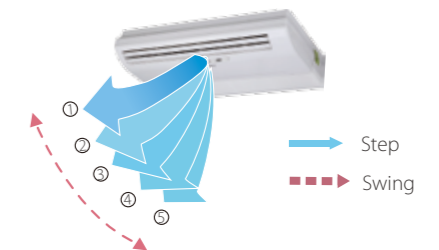
Multiple Fan Speeds

The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



Multiple Steps Vertical Swing and Horizontal Swing

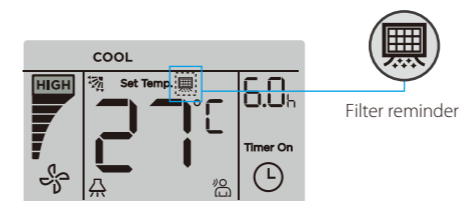
Vertical air flow direction can be adjusted 5 steps and horizontal air flow direction can be adjusted manually, both vertical and horizontal can be set auto swing.



HEALTH

Dirty Filters Indicator Signal

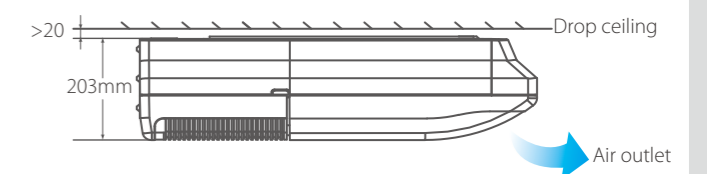
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



EASY INSTALLATION

Pure White Stylish Panel with Slim Design

Pure white stylish panel with slim design, perfect fusion in all kinds of decoration.



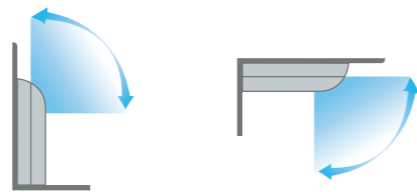
Exposed Installation, Easy Installation and Maintenance

The Ceiling & Floor unit is exposed installation, it is easy installation and maintenance. It can be serviced through the bottom of the machine, easy to access the key components of the unit.



Two Installation Options

A sleek design suits installation either on the ceiling or floor, providing flexibility to accommodate a wide range of room designs.



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

Specifications - DC Series

Model		MI2-36DLDHN1	MI2-45DLDHN1	MI2-56DLDHN1	MI2-71DLDHN1	
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
Airflow 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)	40/39/38/38/37/36/36		43/42/41/41/39/38/38		
Indoor unit	Net dimensions ⁵ (WxHxD)	mm 990x660x203				
	Packed dimensions (WxHxD)	mm 1089x744x296				
	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		MI2-80DLDHN1	MI2-90DLDHN1	MI2-112DLDHN1	MI2-140DLDHN1	MI2-160DLDHN1	
Power supply		1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	8.0	9.0	11.2	14.0	16.0
		kBtu/h	27.2	30.7	38.2	47.8	54.6
	Power input	W	130	130	180	180	288
Heating ²	Capacity	kW	9.0	10.0	12.5	15.0	18.0
		kBtu/h	30.7	34.1	42.7	51.2	61.4
	Power input	W	130	130	180	180	288
Airflow rate ³	m ³ /h	1280/1245/1210/1170/1130/1085/1050		1890/1830/1765/1700/1660/1620/1580		2300/2240/2180/2100/2005/1950/1800	
Sound pressure level ⁴	dB(A)	45/44/43/43/42/41/40		47/46/45/45/44/43/42		50/49/48/47/46/45/44	
Indoor unit	Net dimensions ⁵ (WxHxD)	mm 1280x660x203		1670x680x244			
	Packed dimensions (WxHxD)	mm 1379x744x296		1915x760x330			
	Net/Gross weight	kg 35/41		48/58			
Pipe connections	Liquid/Gas pipe	mm Φ9.53/Φ15.9					
	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).
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.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications - AC Series

50Hz Series

Model		MDV-D36DL/N1-C(B)	MDV-D45DL/N1-C(B)	MDV-D56DL/N1-C(B)	MDV-D71DL/N1-C(B)	
Power supply		1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kW	3.6	4.5	5.6	7.1
	Input	W	49	120	122	125
Heating ²	Capacity	kW	4	5	6.3	8
	Input	W	49	120	122	125
Indoor fan motor	Type	AC				
	Quantity	1				
Refrigerant type		R410A				
Airflow rate (H/M/L)		m ³ /h	650/570/500		800/600/500	
Sound pressure level (H/M/L) ³		dB(A)	40/38/36		43/41/38	
Indoor unit	Dimension ⁴ (WxHxD)	mm	990x203x660			
	Packing (WxHxD)	mm	1089x296x744			
	Net/Gross weight	kg	26/32	28/34		
Piping connections	Liquid pipe	mm	Φ6.35		Φ9.53	
	Gas pipe	mm	Φ12.7		Φ15.9	
	Drain pipe	mm	ODΦ25			

Model		MDV-D80DL/N1-C(B)	MDV-D90DL/N1-C(B)	MDV-D112DL/N1-C(B)	MDV-D140DL/N1-C(B)	
Power supply		1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kW	8	9	11.2	14
	Input	W	130	130	182	182
Heating ²	Capacity	kW	9	10	12.5	15
	Input	W	130	130	182	182
Indoor fan motor	Type	AC				
	Quantity	1		2		
Refrigerant type		R410A				
Airflow rate (H/M/L)		m ³ /h	1200/900/700		1980/1860/1730	
Sound pressure level (H/M/L) ³		dB(A)	45/43/40		47/45/42	
Indoor unit	Dimension ⁴ (WxHxD)	mm	1280x203x660		1670x244x680	
	Packing (WxHxD)	mm	1379x296x744		1764x329x760	
	Net/Gross weight	kg	34.5/41		54/59	
Piping connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9			
	Drain pipe	mm	ODΦ25			

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

Model			MDV-D36DL/VN1-C(B)	MDV-D45DL/VN1-C(B)	MDV-D56DL/VN1-C(B)	MDV-D71DL/VN1-C(B)
Power supply			1 phase, 220-240V, 60Hz			
Cooling ¹	Capacity	kW	3.6	4.5	5.6	7.1
	Input	W	50	148	148	148
Heating ²	Capacity	kW	4	5	6.3	8
	Input	W	50	148	148	148
Indoor fan motor	Type		AC			
	Quantity		1			
Refrigerant type			R410A			
Airflow rate (H/M/L)		m ³ /h	600/480/400	750/650/550	750/650/550	750/650/550
Sound pressure level (H/M/L) ³		dB(A)	40/38/36	43/41/38	43/41/38	43/41/38
Indoor unit	Dimension* (WxHxD)	mm	990x203x660			
	Packing (WxHxD)	mm	1089x296x744			
	Net/Gross weight	kg	26/32	28/34	28/34	28/34
Pipe connections	Liquid pipe	mm	Φ6.35		Φ9.53	
	Gas pipe	mm	Φ12.7		Φ15.9	
	Drain pipe	mm	OD Φ25			

Model			MDV-D80DL/VN1-C(B)	MDV-D90DL/VN1-C(B)	MDV-D112DL/VN1-C(B)	MDV-D140DL/VN1-C(B)
Power supply			1 phase, 220-240V, 60Hz			
Cooling ¹	Capacity	kW	8	9	11.2	14
	Input	W	183	183	245	245
Heating ²	Capacity	kW	9	10	12.5	15
	Input	W	183	183	245	245
Indoor fan motor	Type		AC			
	Quantity		1		2	
Refrigerant type			R410A			
Airflow rate (H/M/L)		m ³ /h	1200/900/700	1200/900/700	1980/1860/1730	1980/1860/1730
Sound pressure level (H/M/L) ³		dB(A)	45/43/40	45/43/40	47/45/42	47/45/42
Indoor unit	Dimension* (WxHxD)	mm	1280x203x660		1670x244x680	
	Packing (WxHxD)	mm	1379x296x744		1764x329x760	
	Net/Gross weight	kg	34.5/41	34.5/41	54/59	54/59
Pipe connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9			
	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. 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.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Floor Standing



Floor standing unit with multi casing options can be installed quickly and easily in new or existing facilities in a variety of applications.

Key Features

Floor Standing		DC Series
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Air filter	●
	Dirty filters indicator signal	●
Air flow	Multiple fan speeds	7+auto
Easy installation	Pure white stylish panel with slim design	●
	Exposed installation, easy installation and maintenance	●
	Multiple Appearance Options	●

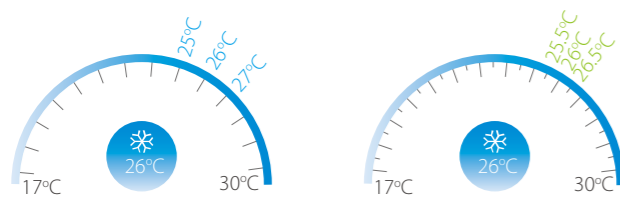
Note:

- : equipped as standard

COMFORT

0.5°C/1°C Setting Temperature Adjustment

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



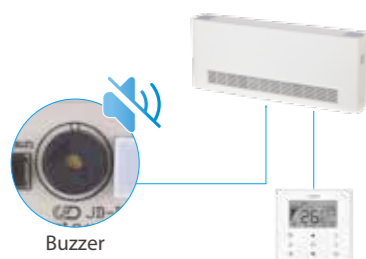
Digital Display On/Off

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



Buzzer Sound On/Off

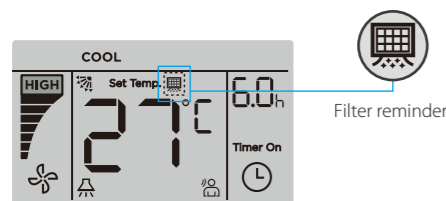
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Dirty Filters Indicator Signal

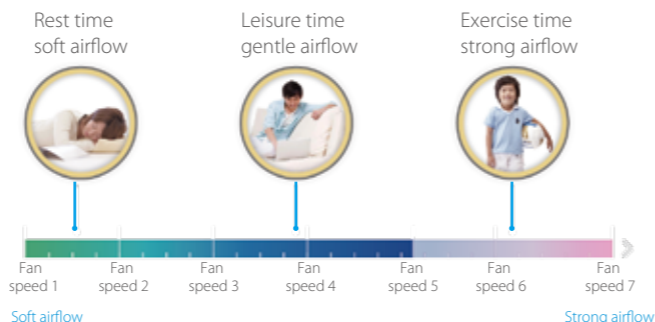
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

Multiple Fan Speeds

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



EASY INSTALLATION

Multiple Appearance Options

The Floor Standing Unit has three appearance options to meet different installation requirement, 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)

Specifications - DC Series

Concealed

Model		MI2-22F3DHN1		MI2-28F3DHN1		
Power supply		1 phase, 220-240V, 50/60Hz				
Cooling ¹	Capacity	kW	2.2	kW	2.8	
		kBtu/h	7.5	kBtu/h	9.6	
	Power input	W	40	W	45	
Heating ²	Capacity	kW	2.4	kW	3.2	
		kBtu/h	8.2	kBtu/h	10.9	
	Power input	W	40	W	45	
Airflow 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	
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	840x545x212			
	Packed dimensions (WxHxD)	mm	939x639x305			
	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	kW	4.5	
		kBtu/h	12.3	kBtu/h	15.4	
	Power input	W	55	W	60	
Heating ²	Capacity	kW	4.0	kW	5.0	
		kBtu/h	13.6	kBtu/h	17.1	
	Power input	W	55	W	60	
Airflow 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	
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	1040x545x212			
	Packed dimensions (WxHxD)	mm	1139x639x305			
	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			
Airflow 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	
Indoor unit	Net dimensions ⁵ (WxHxD)	mm	1340x545x212					
	Packed dimensions (WxHxD)	mm	1425x639x345					
	Net/Gross weight	kg	31/39				32.7/40.7	
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. All specifications are measured at 10Pa external static pressure.

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
Airflow 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
Indoor unit	Net dimensions* (WxHxD)		1000x596x225	
			1000x677x220	
	Packed dimensions (WxHxD)		1089x683x312	
			1182x683x312	
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
Airflow 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
Indoor unit	Net dimensions* (WxHxD)		1200x596x225	
			1200x677x220	
	Packed dimensions (WxHxD)		1289x683x312	
			1382x683x312	
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
Airflow 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
Indoor unit	Net dimensions* (WxHxD)		1500x596x225		
			1500x677x220		
	Packed dimensions (WxHxD)		1589x683x312		
			1682x683x312		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		40.4/46.2
	Drain pipe	mm	Φ16		40.7/49.4

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



Optimal heating comfort thanks to dual airflow, can be floor standing or installed against a wall

Key Features

Console	DC Series
Optimal heating comfort	●
Quiet operation	●
0.5°C/1°C setting temperature adjustment	●
Digital display on/off	●
Buzzer sound on/off	●
Air filter	●
Dirty filters indicator signal	●
Two air outlets and four air inlets	●
Multiple fan speeds	7+auto
Multiple steps vertical swing	5+auto
Pure white stylish panel with compact size	●
Exposed installation, easy installation and maintenance	●

Note:

- : equipped as standard

COMFORT

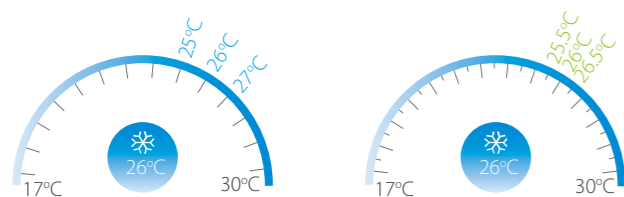
Optimal Heating Comfort

Thanks to the two air outlets, hot air can be supplied from below, just like floor heating, which is more comfortable when heated from the foot.



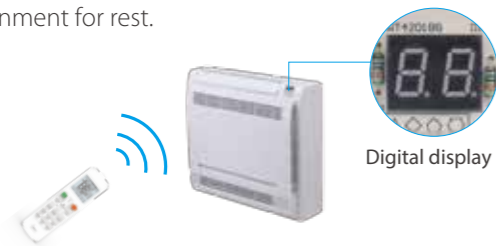
0.5°C/1°C Setting Temperature Adjustment

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



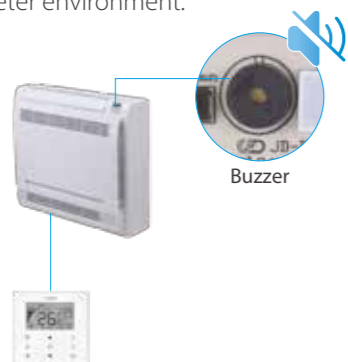
Digital Display On/Off

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



Buzzer Sound On/Off

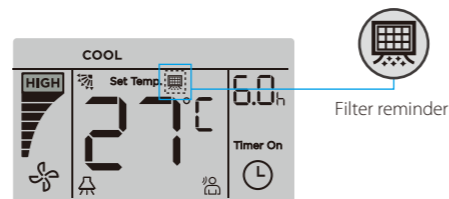
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Dirty Filters Indicator Signal

The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

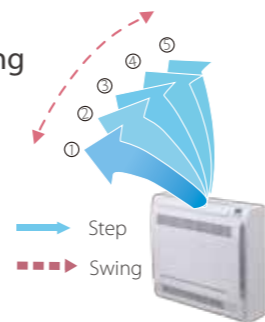
Two Air Outlets And Four Air Inlets

The Console unit's combination of four air inlets and two air outlets ensure that cooling and heating is distributed in all directions.



Multiple Steps Vertical Swing

There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs.



EASY INSTALLATION

Pure White Stylish Panel With Compact Size

Pure white stylish panel with slim design, perfect fusion in all kinds of decoration.

Super compact design can be install in existing building. Its low height enables the unit to fit perfectly beneath a window. Good choose for office.



Specifications - DC Series

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
	Power input	W	20	25
Heating ²	Capacity	kW	2.6	3.2
		kBtu/h	8.9	10.9
	Power input	W	20	25
Airflow 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
Indoor unit	Net dimensions ⁵ (WxHxD)	700x600x210		
	Packed dimensions (WxHxD)	810x710x305		
	Net/Gross weight	kg	14/19	15/20
Pipe connections	Liquid/Gas pipe	Φ6.35/Φ12.7		
	Drain pipe	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
	Power input	W	25	35
Heating ²	Capacity	kW	4.0	5.0
		kBtu/h	13.4	17.1
	Power input	W	25	35
Airflow 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
Indoor unit	Net dimensions ⁵ (WxHxD)	700x600x210		
	Packed dimensions (WxHxD)	810x710x305		
	Net/Gross weight	kg	15/20	
Pipe connections	Liquid/Gas pipe	Φ6.35/Φ12.7		
	Drain pipe	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.

Fresh Air Processing Unit



Integrated with ventilation and air processing, combining fresh air treatment and air conditioning via single system.

Key Features

Fresh Air Processing Unit		DC Series with large airflow	DC Series with small airflow
Comfort	100% fresh air processing unit	●	●
	Discharge Air temperature control	●	●
	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
Health	Buzzer sound on/off	●	●
	Air filter	○ (G3-class)	○ (G3-class)
	Dirty filters indicator signal	●	●
Air flow	Adjustable ESP	20-steps	20-steps
	Multiple fan speeds	7+auto	7+auto
Easy installation	Wide operation range	-10~43°C	-10~50°C
	Flexible duct design	●	●
	High-lift water pump box	○	○

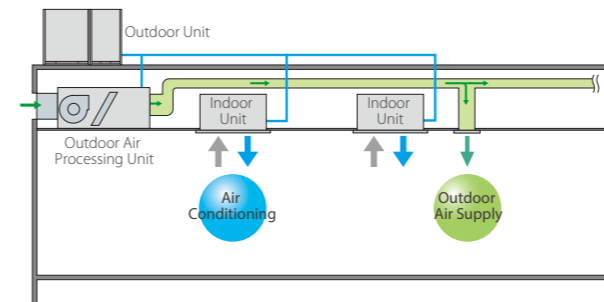
Note:
● equipped as standard; ○ customization option;

COMFORT

100% Fresh Air Processing Unit

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

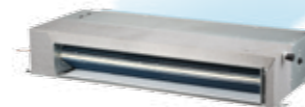
Indoor units and the Fresh Air Processing Unit can be connected to the same refrigerant system, increasing design flexibility and greatly reducing total system costs.



Discharge Air Temperature Control

Different from the normal indoor unit adopts return air temperature control, the fresh air processing unit adopts discharge air temperature control, thereby reducing the air conditioning load.

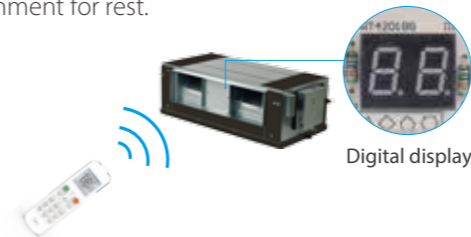
Target return air temperature control



Target discharge air temperature control

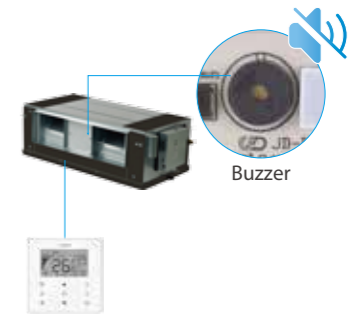
Digital Display On/Off

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



Buzzer Sound On/Off

Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Optional G3-class Air Filter

G3-class filter is optional for Fresh Air Processing Unit installation. Filtering effect of the G3-class filter reaches up to 80%-90% against coarse dust (particle size > 10 μm), creating a cleaner living environment.

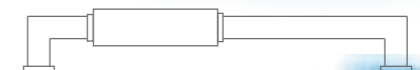


The optional filter comply with EN779:2012

AIR FLOW

Static Pressure 20 Steps Control

Depending on the installation environment, Medium Static Pressure Duct is controlled the static pressure up to 20 steps via wired remote controller, for providing comfortable environment suitable for any environment.



Constant airflow discharge

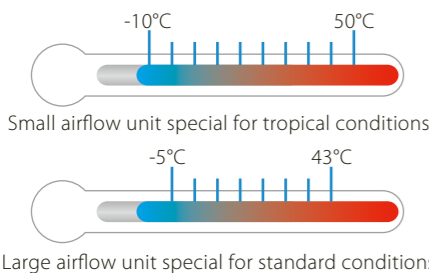


20 steps static pressure control

EASY INSTALLATION

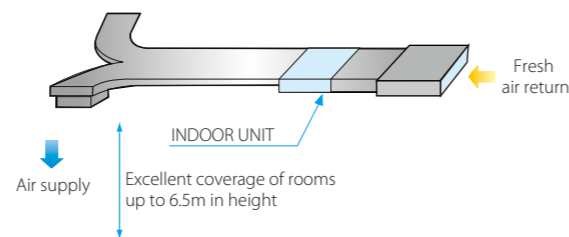
Wide Operation Range

The Fresh Air Processing Unit can be installed practically anywhere. The unit operates at outdoor ambient up to 50°C in cooling mode and down to -10°C in heating mode.



Flexible Duct Design

Fresh Air Processing Unit supplies a wide static pressure from 30Pa to 400Pa which can support short to long duct with high ceiling air supply.



Specifications - DC Series (with large airflow)

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
Airflow 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	
Indoor 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 Ø9.53/Ø15.9		Ø12.7/Ø22.2	
	Drain pipe	mm OD Ø25		OD Ø32	
Operating temperature range	°C	Heating: -5 to 16; Cooling: 20 to 43; Fan only: 16 to 20			

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
Airflow 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	
Indoor 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 Ø12.7/Ø22.2		Ø15.9/Ø28.6	Ø15.9/Ø28.6	
	Drain pipe	mm OD Ø32				
Operating temperature range	°C	Heating: -5 to 16; Cooling: 20 to 43; Fan only: 16 to 20				

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 units 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.

Specifications - DC Series (with small airflow)

Model		MI2-140FADHN1-S	MI2-224FADHN1-S	MI2-280FADHN1-S	
Power supply		1-phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	14.0	22.4	28.0
		kBtu/h	47.8	76.4	95.5
	Power input	W	150	250	300
Heating ²	Capacity	kW	8.9	13.9	17.4
		kBtu/h	30.4	47.4	59.4
	Power input	W	150	250	300
Airflow rate ³	m ³ /h	1080/1035/990/945/900/855/810	1680/1583/1487/1390/1293/1197/1100	2100/2030/1960/1890/1820/1750/1680	
External static pressure ⁴	Pa	180 (30~250)	220 (100~350)	200 (100~400)	
Sound pressure level ⁵	dB(A)	42/41/40/39/38/37/36	47/46/45/44/43/42/40	47/46/45/44/43/42	
Indoor unit	Net dimensions (WxHxD)	mm	1150x457x970	1270x490x1100	
	Packed dimensions (WxHxD)	mm	1285x470x1095	1415x515x1235	
	Net/Gross weight	kg	67/80	81/97	
Pipe connections	Liquid/Gas pipe	mm	Ø9.5/Ø15.9	Ø12.7/Ø22.2	
	Drain pipe	mm	OD Ø25	OD Ø33	
Operating temperature range	°C	Heating: -10 to 16; Cooling: 20 to 50; Fan only: 5 to 43			

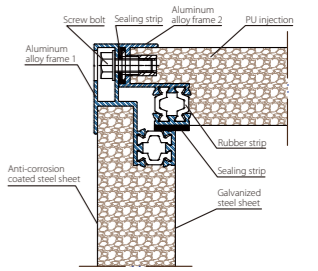
Notes:
 1. Outdoor temperature 33°C DB, 28°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Outdoor temperature 0°C DB, -2.9°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest 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 units 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.

Midea DX Modular Air Handling Unit



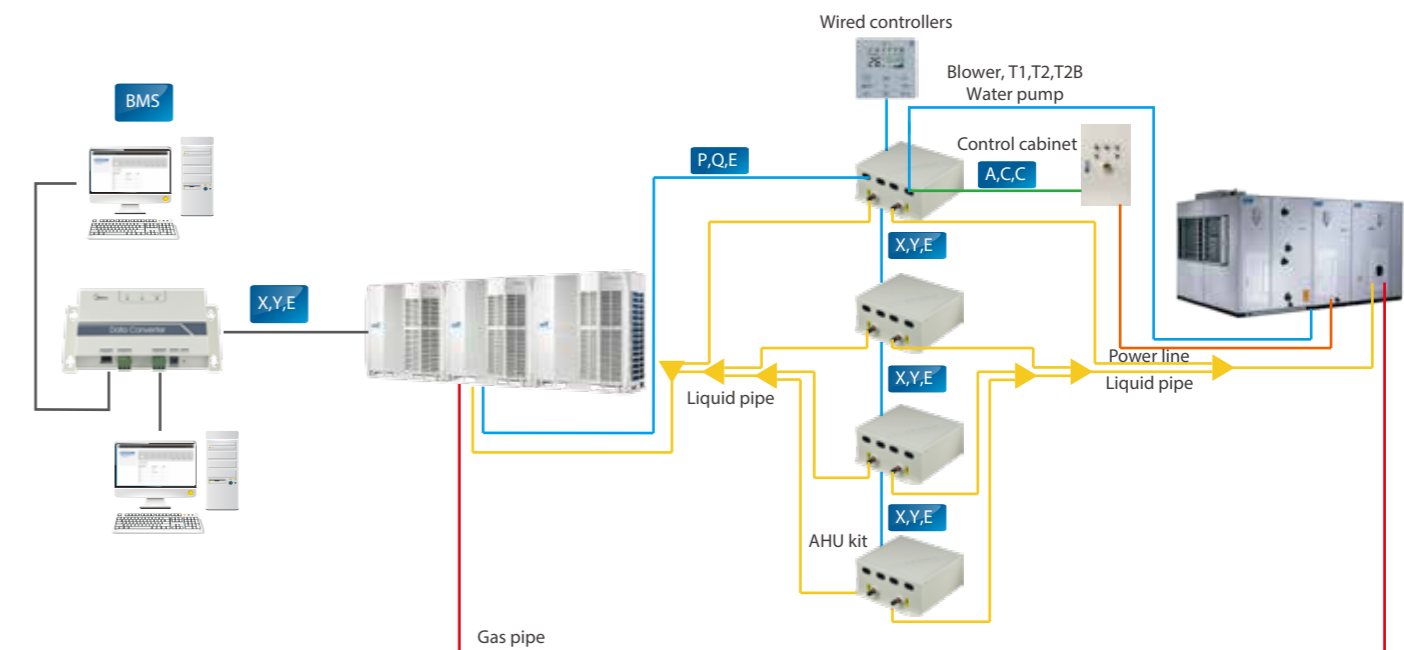
Function Specifications

Function Section	Size (mm)	Features
Air inlet	Section length = 600	1. Patented chassis structure, with low air leakage and high strength
Primary filter	Section length = 100	Interior uses high-strength aluminium material
Sub-Hepa filter	Standard bag length = 381, section length = 500	Split-type with structure made from composite material
DX coil	Section length = 600/800	2. High performance heat exchanger
Electric heating	Section length = 300	
Electrostatic dedusting	Section length = 400	
Humidifying	/	3. High efficiency centrifugal fan and high quality motor for optimal working point and efficiency of the fan
Fan	/	
High efficiency filter	Section length = 500	
Flow equalization	Section length = 700	4. Inclining drain pan for quick condensate drainage
Noise reduction	Section length = 600	



Control Systems

The DX Modular Air Handling Unit should be used together with Midea DX AHU Control Box.



KJR-29B wired controller:
 1. The wired controller features multiple modes, timed on/off, and temperature setting;
 2. Alarm and real-time monitoring ensures reliable operation of the unit.



Starter panel:
 1. Manual/automatic switch, remote control and motor speed control (DC motor);
 2. Thermal relay protection, emergency stop, and status indicator;
 3. Fire alarm and fire control linkage.

Function Selections

	Name	Standard	Customized
Panel	Thickness	25mm	35mm, 50mm
	Inner Skin	0.5mm, Galvanized Steel	Galvanized Steel (Thickness: 0.8/1.0/1.2); Stainless Steel(Thickness:0.5/0.8/1.0/1.2), Pre-coated Steel(Thickness:0.5/0.8/1.0/1.2)
	Outer Skin	0.5mm, Pre-coated Steel	Pre-coated Steel (Thickness: 0.8/1.0/1.2), Stainless Steel(Thickness: 0.5/0.8/1.0/1.2)
Coil	Fin Material	Aluminium	Hydrophilic AL
	Coil Frame	GI	SUS304
	Has Moisture Eliminator	AL Moisture Eliminator	SUS304 Moisture Eliminator
	Number of Rows	3Rows	×
	Tube Size	Φ7 or Φ9.53mm	×
Motor	Drain Pan Material	GL Spray	SUS304
	Motor Brand	WanNan	Siemens
	Frequency Type	Single Speed	Variable Frequency Motor, Explosion-Proof Motor, EC motor, Double speed motor
	Efficiency	IE2	IE3, IE4
Fan	Accessories	×	Belt guard, Winding protection, NSK/SKF bearing, Moisture-proof heating belt
	Blower Brand	Yilida	Kruger, Ebm-Papst EC Fan
	Blade Type	Forward Curved	Backward curved, Airfoil, Explosion-proof, Plug Fan
Humidifier	Accessories	×	NSK/SKF bearing, Pressure Gauge Switch, Pressure Gauge, Activation Box
	Humidifier Type	×	Evaporative Humidifier, Water Spray Humidifier, Water Mist Humidifier, Electrode Boiler Humidifier, Electrical Heating Element Humidifier, Dry Steam Humidifier
	Filter Brand	×	G2~H14
	Filter Frame	AL	×
Filter	Frame Material	Galvanized Steel	Stainless Steel
	Special filter	×	Chemical filter, UV lamp, Light hydrogen plasma air purifying disinfectant, Electrostatic Filter, Air Purifier, Photocatalyst filter
	Accessories	×	Manometer, Pressure Switch
Electric Heating	Heater Type	Stainless Steel Tube	×
Heat Recovery	Device type	×	Heat Wheel, Heat Plate, Heat pipe
	Accessories	×	Pressure Switch, Thermometer
Silencer	Silencer Type	Resistance Type	Micro-perforated Plate
	Silencer Size	600mm	900mm, 1200mm
controller	General customization	×	Direct Starting ark, Star-delta Starting Ark, Frequency Converter Starting Ark
	Non-standard custom	×	Modbus, MBS, etc.
Others	Anti-corrosion customization	spray	SUS Fastener
	Unit Base	Base Height: 80mm	100mm Height, Steel Bsse, Hot dip zinc base
	Outdoor Location	×	Has Roof
	Accessories	×	Lamp, Lamp Control Box, Inspection Window, GL Damper, AL Damper, Damper Handle

Note:
×: without this function

Specifications (Return air condition)

Model	IDU air flow (m³/h)	2500	4000	5000	6000	7500
	IDU model (modulus)	MKZ0609	MKZ0612	MKZ0909	MKZ0912	MKZ0915
System parameters	Rated cooling capacity (kW)	14	21	28	33	45
	Rated heating capacity (kW)	16	23	30	35	50
ODU	Compressor	Enhanced vapor injection DC inverter scroll compressor				
	Throttling mode	Electronic expansion valve				
	Power input (kW)	5.4/5.8	5.4/5.8	5.4/5.8	8.1/8.6	10.2/10.7
	Noise value dB(A)	56	56	56	59	60
Refrigerant	R410A charge amount (kg)	11	11	11	11	13
	Connection methods	Welding connection				
Connecting pipe	Dimension	Liquid pipe	12.7	12.7	12.7	12.7
	Gas pipe	25.4	25.4	25.4	25.4	28.6

Model	IDU air flow (m³/h)	10000	12000	15000	20000	24000	30000
	IDU model (modulus)	MKZ1212	MKZ1215	MKZ1515	MKZ1521	MKZ1821	MKZ2121
System parameters	Rated cooling capacity (kW)	56	67	84	112	134	168
	Rated heating capacity (kW)	60	70	90	120	140	184
ODU	Compressor	Enhanced vapor injection DC inverter scroll compressor					
	Throttling mode	Electronic expansion valve					
	Power input (kW)	15.8/15.4	17.8/17.0	22.8/23.2	2x15.8/15.4	2x17.8/17.0	2x20.6/21.1
	Noise value dB(A)	62	64	64	62	62	63
Refrigerant	R410A charge amount (kg)	17	22	25	2x17	2x22	2x25
	Connection methods	Welding connection					
Connecting pipe	Dimension	Liquid pipe	15.9	19.1	22.2	2x15.9	2x19.1
	Gas pipe	28.6	31.8	35	2x28.6	2x31.8	2x35.0

Notes:
 1. Rated cooling capacity is measured under nominal air flow conditions with an indoor dry bulb/wet bulb temperature of 27/19°C and an outdoor dry bulb/wet bulb temperature of 35/24°C.
 2. Rated heating capacity is measured under nominal air flow conditions with an indoor dry bulb/wet bulb temperature of 20/15°C and an outdoor dry bulb/wet bulb temperature of 7/6°C.
 3. The equipped electric heater is auxiliary. Therefore, the additional heating capacity required in winter shall be calculated separately.
 4. Performance test for piping conditions: the equivalent refrigerant pipe is 7.5m long.
 5. The ODU carries R410A when delivered from the factory. During installation and based on the liquid pipe length, the correct amount of refrigerant should be added.
 6. Compatible with different type of ODU series. See the manual for specific ODU specifications.

Specifications (Fresh air condition)

Model	IDU air flow (m³/h)	1500	1900	2500	3000	4000	5000	7000
	IDU model (modulus)	0609	0609	0909	0909	0912	0915	0915
System parameters	Rated cooling capacity (kW)	14	20	25	30	40	52	61
	Rated heating capacity (kW)	16	22	27	33	44	57	67
ODU	Compressor	Enhanced vapor injection DC inverter scroll compressor						
	Throttling mode	Electronic expansion valve						
	Power input (kW)	5.4/5.8	5.4/5.8	5.4/5.8	8.1/8.6	10.2/10.7	15.8/15.4	17.8/17.0
	Noise value dB(A)	56	56	56	59	59	62	62
Refrigerant	R410A charge amount (kg)	11	11	11	11	13	17	17
	Connection methods	Welding connection						
Connecting pipe	Dimension	Liquid pipe	12.7	12.7	12.7	12.7	15.9	15.9
	Gas pipe	19.1	19.1	19.1	19.1	25.4	28.6	28.6

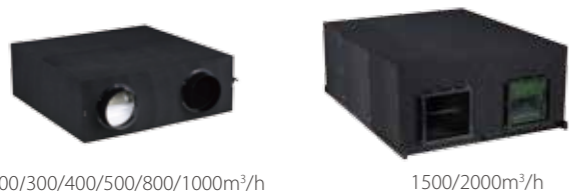
Model	IDU air flow (m³/h)	8000	10000	14000	15000	16000	17500	19000
	IDU model (modulus)	1212	1215	1518	1518	1518	1521	1821
System parameters	Rated cooling capacity (kW)	82	106	122	152	164	180	196
	Rated heating capacity (kW)	88	112	136	165	180	198	215
ODU	Compressor	Enhanced vapor injection DC inverter scroll compressor						
	Throttling mode	Electronic expansion valve						
	Power input (kW)	22.8/23.2	2x15.8/15.4	2x17.8/17.0	2x20.6/21.1	2x22.8/23.2	2x25/24.8	3x18.5/17.6
	Noise value dB(A)	64	62	62	63	64	64	62
Refrigerant	R410A charge amount (kg)	25	2x17	2x17	2x22	2x25	2x25	3x22
	Connection methods	Welding connection						
Connecting pipe	Dimension	Liquid pipe	22.2	2x15.9	2x19.1	2x22.2	2x19.1	2x19.1
	Gas pipe	35	2x25.4	2x31.8	2x31.8	2x38.1	2x38.1	3x31.8

Notes:
 1. Rated cooling capacity is measured under nominal air flow conditions with an outdoor dry bulb/wet bulb temperature of 35/28°C.
 2. Rated heating capacity is measured under nominal air flow conditions with an outdoor dry bulb/wet bulb temperature of 7/6°C (no frost).
 3. The equipped electric heater is auxiliary. Therefore, the additional heating capacity required in winter shall be calculated separately.
 4. Performance test for piping conditions: the equivalent refrigerant pipe is 7.5m long; The ODU carries R410A when delivered from the factory.
 During installation and based on the liquid pipe length, the correct amount of refrigerant should be added.
 5. Operating temperature: cooling: 20°C to 43°C; heating: -5°C to +16°C.
 6. Compatible with different type of ODU series. See the manual for specific ODU specifications.

Heat Recovery Ventilator (HRV)

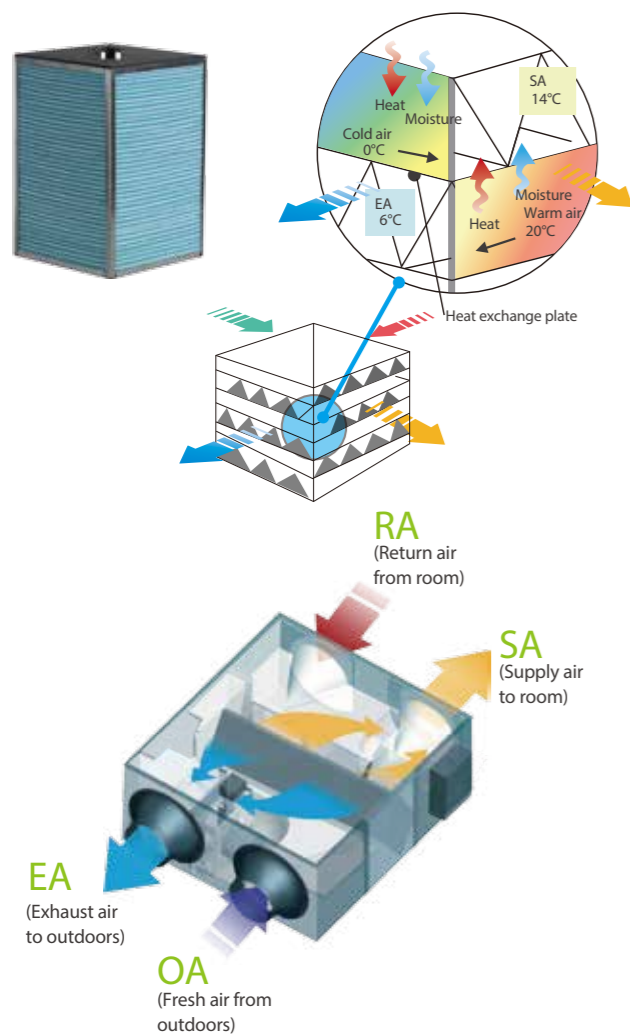
Wide Capacity Range

The HRV has AC Series and DC Series options. The airflow is from 200m³/h to 2000m³/h which can meet the requirements of most scenarios.



Energy Saving, Heat Recovery for Both Heat and Humidity

The 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. It prevents energy being wasted by recovering waste heat from the outgoing air, thus offering much greater levels of efficiency, while improving comfort levels too.

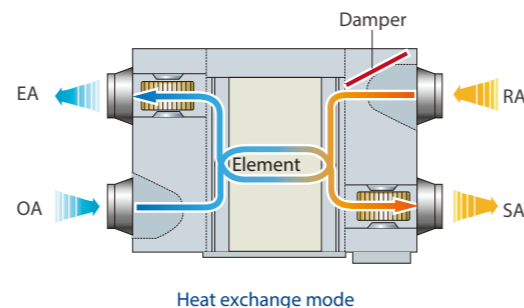


Multiple Operation Modes

Multiple operation modes: Auto, Bypass, Heat recovery, Free cooling mode (available for DC Series Only), Air supply mode and Exhaust mode (available for AC Series Only).

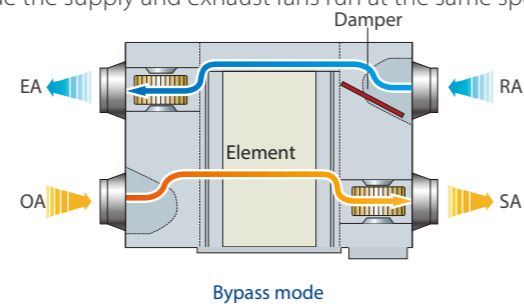
Heat exchange mode

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

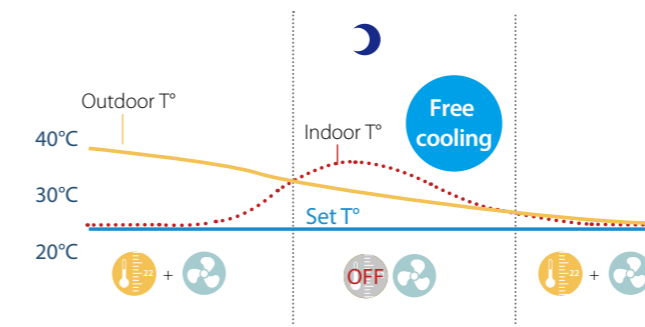
Exhaust mode is where the exhaust fan is set to run faster than the supply fan, which is useful in mild climate installations with large amounts of exhaust air to be expelled.

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.

Free Cooling Mode

Free cooling mode is only available for DC Series HRV. Free cooling operation is an energy saving function operating when outdoor ambient temperature is below indoor ambient temperature, it uses low temperature fresh air to cool down indoor temperature, reducing the running costs.



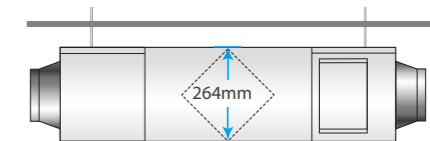
High Efficiency Filter

Standard Built-in G4-class dust filter, optional F7-class filter for air supply side and M5-class filter for exhaust air side in line with EU legislations can be customized.



Easy Installation

Slim and compact design of units, making the installation more convenient.



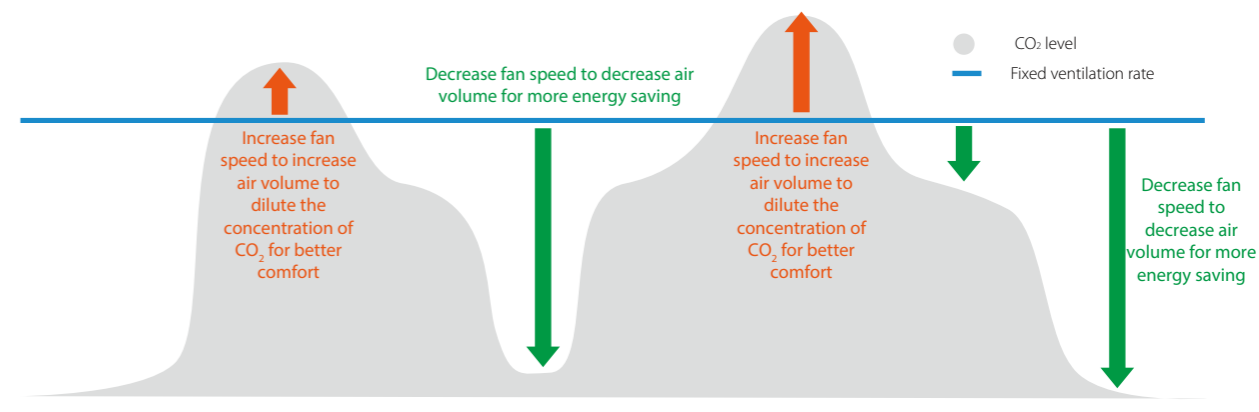
Wide Range of Controllers

The HRV has its special wired controller KJR-27B for standard functions control and compatible with group controller WDC-120G/WK for new functions (CO₂ sensor function, differential pressure sensor function) control. It also can be centralized control with VRF system through centralized controller and network control with VRF system through Midea BMS gateways.



CO₂ Sensor Option

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore, an optional CO₂ sensor can be installed which switches off the ventilation system when there is enough fresh air in the room, thus saving energy.



Specifications - DC Series

Model		HRV-D200(B)	HRV-D300(B)	HRV-D400(B)	HRV-D500(B)
Power supply		1-phase, 220-240V~50Hz			
Input power (H/M/L)(F7+M5)	W	80/40/25	100/55/35	110/70/40	150/95/50
Nominal Temperature Efficiency (standard G4) (H/M/L)	%	79.5/81.1/83.5	75.5/78.8/82.5	77.7/79.0/81.3	80.6/82.2/85.5
Nominal Enthalpy Efficiency (standard G4) (H/M/L)	%	75.0/77.5/79.6	72.1/75.0/79.3	73.5/75.3/78.0	74.0/76.6/80.5
Nominal Temperature Efficiency (F7+M5) (H/M/L)	%	81.8/85.4/87.5	80.4/81.8/83.5	79.2/81.1/83.3	77.2/79.4/82.5
Nominal Enthalpy Efficiency (F7+M5) (H/M/L)	%	81.2/83.1/85.0	79.4/81.2/84.0	79.6/81.8/84.2	72.3/75.6/78.6
Fresh air external static pressure (H speed +F7+M5)	Pa	75	70	70	65
Discharge air external static pressure (H speed +F7+M5)	Pa	100	110	110	110
Nominal air flow	m ³ /h	200	300	400	500
Sound pressure level (H/M/L)	dB(A)	33/29.5/25.5	36.5/33.5/30	36.5/32/28	36/30.5/24.5
Sound power level (H)	dB	45	48	48	50
Net dimensions (WxDxH)	mm	1195x801x272	1195x914x272	1276x1204x272	1311x1106x390
Packed dimensions (WxDxH)	mm	1275x880x420	1275x994x420	1360x1284x420	1390x1244x540
Net/Gross weight	kg	53.6/63.5	59/75.5	71.5/91.5	74.4/98
Duct diameter	mm	Φ144	Φ144	Φ198	Φ244
Operating temperature range	°C	-7 to 43 DB, RH 80% or lower			

Model		HRV-D800(B)	HRV-D1000(B)	HRV-D1500(B)	HRV-D2000(B)
Power supply		1-phase, 220-240V~50Hz			
Input power (H/M/L)(F7+M5)	W	320/170/80	420/230/100	680/320/200	950/500/230
Nominal Temperature Efficiency (standard G4) (H/M/L)	%	78.7/82.1/86.8	82.8/84.0/87.4	75.5/78.6/80.2	77.2/79.5/83.4
Nominal Enthalpy Efficiency (standard G4) (H/M/L)	%	72.3/75.4/79.0	76.0/76.0/80.1	69.4/71.2/74.8	74.7/77.0/80.6
Nominal Temperature Efficiency (F7+M5) (H/M/L)	%	74.9/77.1/80.8	75.4/78.0/81.4	83.8/84.6/86.2	78.8/80.5/83.4
Nominal Enthalpy Efficiency (F7+M5) (H/M/L)	%	71.1/74.4/78.0	67.3/71.1/75.0	74.6/76.2/78.8	71.1/75.0/79.6
Fresh air external static pressure (H speed +F7+M5)	Pa	100	110	150	160
Discharge air external static pressure (H speed +F7+M5)	Pa	155	145	180	180
Nominal air flow	m ³ /h	800	1000	1500	2000
Sound pressure level (H/M/L)	dB(A)	42/39/34	44/39/33.5	51.5/46.5/41.5	53/48.5/42.5
Sound power level (H)	dB	55	54	69	70
Net dimensions (WxDxH)	mm	1311x1286x390	1311x1526x390	1740x1375x615	1811x1575x685
Packed dimensions (WxDxH)	mm	1390x1424x540	1390x1670x540	1830x1520x770	1900x1720x845
Net/Gross weight	kg	80/104	90/112	181.5/213	208.5/245
Duct diameter	mm	Φ244	Φ244	346x326	346x326
Operating temperature range	°C	-7 to 43 DB, RH 80% or lower			

Note:

- For the units model of HRV-D200(B)~HRV-D2000(B), there are 3-speed adjustable air-volume (Hi, Med, Low).
- The parameters in the above table are measured at high speed.

Specifications - AC Series

Model		HRV-200	HRV-300	HRV-400	HRV-500
Power supply		1-phase, 220-240V~50Hz		1-phase, 220-240V~50Hz & 1-phase, 220V~60Hz	1-phase, 220-240V~50Hz
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		1-phase, 220-240V~50Hz & 1-phase, 220V~60Hz	1-phase, 220-240V~50Hz	3-phase, 380-415V~50Hz	
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 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 an 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.

PURO - AIR KIT

SAFE INDOOR AIR, FROM THE INVISIBLE CARE

PURIFICATION SPEED INDUSTRY LEADER



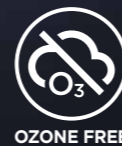
UVGI



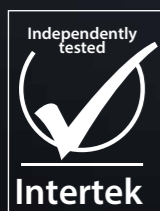
CLEAN WAVE



UV RADIATION FREE



OZONE FREE



First Global Tick-mark Certification Of Purification Ac Products

Premium Osram Hns Uv Lamp Made In Europe

99.9% Killing Rate Of Staphylococcus Albus Within 10 Minutes

99.9% Killing Rate Of H1n1 Within 30 Minutes

98.2% Killing Rate Of Natural Airborne Bacteria Within 30 Minutes

Indoor air pollution is affecting our...

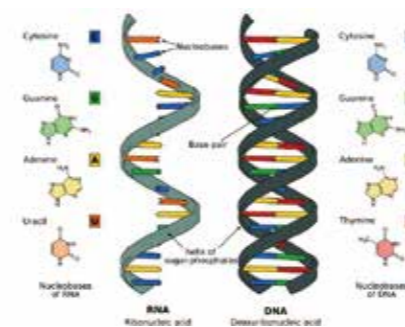
We spend 80% of our time indoors. On average, a person consumes about 8000 liters of air in a day. According to the EPA, indoor air pollution could be five times greater than outdoor air. Over 99% of particles in the air are smaller than 1 micron, and they cannot sink because of their lightweight. When a person sneezes, around 100,000 contagious germs may be sent into the air.

Puro-Air kit can effectively remove bacteria, viruses and odors from indoor air to provide a healthy and safe indoor environment. Its innovative design also prevents UV damage to the eyes, skin, and respiratory tract.



UVGI is increasingly widely used in the sterilization of HVAC equipment. W.J.Kowalski and others have obtained the effect of UV sterilization on the concentration of indoor pollutants through experiments. It can be seen that the virus, bacteria and spores exposed to UV irradiation with an intensity of 25 mW / cm² is significantly reduced. The results show that the microorganisms carried in the air can be killed by applying a certain intensity and time of UV irradiation (200-270nm) under appropriate conditions[1].

[1].HVAC Design Manual for Hospitals and Clinics, ASHRAE



Andrea Bianco, Mara Biasin and others have confirmed through experiments that UV-C irradiation has the potential virucidal effects on SARS-CoV-2. The potential virucidal effects of UV-C irradiation on SARS-CoV-2 were evaluated for different illumination doses and virus concentrations. These results could explain the epidemiological trends of COVID-19 and are important for the development of novel sterilizing methods to contain SARS-CoV-2 infection[2].

[2]Refer to UV-C irradiation is highly effective in inactivating and inhibiting SARS-CoV-2 replication, Andrea Bianco, Mara Biasin

Features:

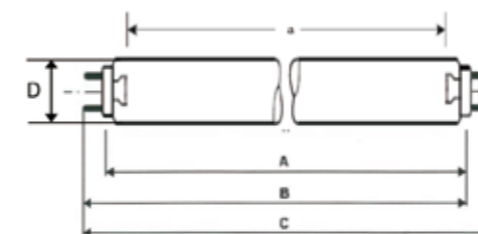
- 2 models, power range from 60W to 120W
- 2 UV lamps and 4 UV lamps are optional
- Application air flow rate of 2 UV lamps model can be up to 2600 m³/h
- Application air flow rate of 4 UV lamps model can be up to 4300 m³/h.
- UVGI high efficient
- Innovative structural design
- Higher safty,Ozone-free and UV leakage-free
- Flexibility Control
- Higher reliability
- Higher killing rate for viruses and bacteria,99.9% killing rate of Staphylococcus albus in 10 minutes,99.9% killing rate of H1N1and 98% killing rate of natural bacteria in 30 minutes
- Be widely used in many scenes



Precise 253.7nm UV wave length	Premium Ozone Free	Powerful 360° Coverage Area	Durable 9000hr 80% output	Reliable Solid Amalgam
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Model	Description	Key component	Box size	Air flow(m ³ /h)
HFB1-P-U02	UV Health function box	2x(UV lamp,230V,30W)	BOXI	2600
HFB1-P-U04	UV Health function box	4x(UV lamp,230V,30W)	BOXI	4300

	BOX Dimension WxHxD(mm)	Air-flow(m ³ /h)	Air velocity(m/s)	Pressure loss(Pa)
HFB1 Puro-Air	1120x418x420	4000	2.44	65
		3500	2.13	50
		3000	1.86	40
		2500	1.52	30
		2000	1.19	20
		1500	0.94	12



Geometric Data

Face to Face	A max 894.3 mm
Face to end of opposite pin	B min 899.3 mm
Face to end of opposite pin	B max 901.7 mm
Overall length	C max 908.8 mm
Radiation length	a 824 ± 2 mm
Tube diameter	D max 25.5 ± 2 mm
Base	G13

Electrical Data

Lamp Power	30 W
Lamp Voltage	96 V
Input Voltage	230 V

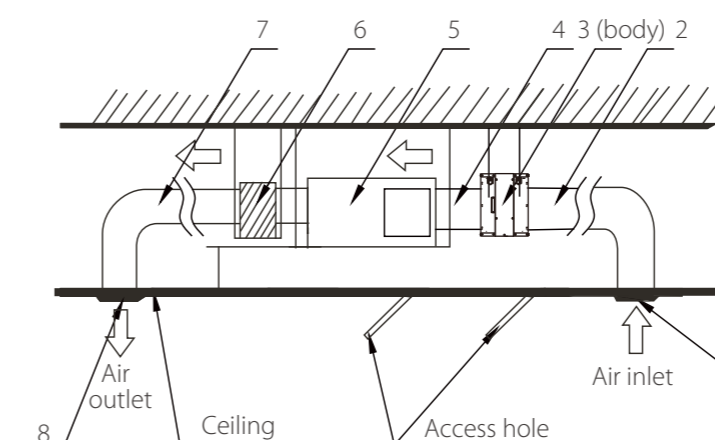
Note: The OSRAM HNS G13 lamp can be purchased from the market for replacement.

Spectral Data

Radiation flux (254nm)	12.0 W
Initial UV-C irradiance	> 0.31 W/m ² @ 2 meter
Lifetime	9000 hrs
UV-C irradiance @ 9000hrs	> 0.24 W/m ² @ 2 meter

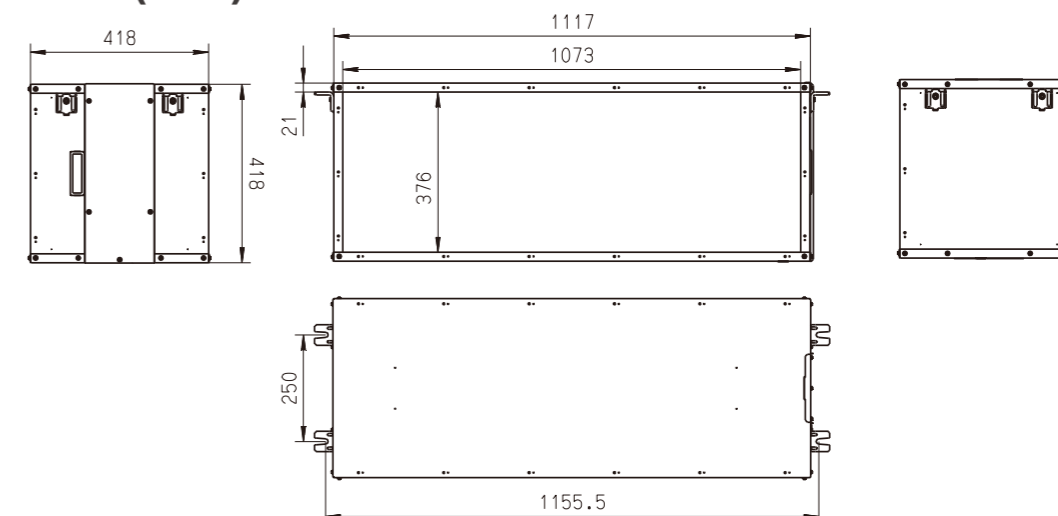
Air Duct Installation

- The air inlet flange and air outlet flange are connected to air ducts, respectively.
- Seal the connection parts of the flange and air duct with aluminum foil tape.
- Use screws (prepared on site) to connect the air duct to the unit.



Legend	
1	Air inlet mesh(prepared on site)
2	Air outlet mesh(prepared on site)
3	PURO-AIR KIT
4	Air duct(prepared on site)
5	Master unit of the air conditioner
6	Air plenum(prepared on site)
7	Air outlet duct(prepared on site)
8	Air outlet(prepared on site)

Dimensions (mm)


















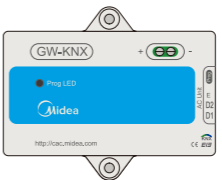






CONTROL SOLUTIONS










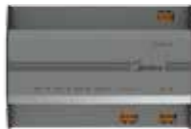






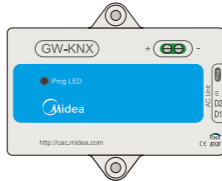

Remote Controllers
Wired Controllers
Central Controllers
Data Converter
Network Control System
BMS Gateways
Accessories

CONTROLLER LINEUP for VX/VXi/V6R/V4+I(10-12HP)/ Mini C

Wireless Remote Controllers Điều khiển không dây	Wired Remote Controllers Điều khiển nối dây	Central Controllers Data converter Điều khiển trung tâm		Network Control System Điều khiển trung tâm sử dụng máy tính	BMS Gateways Điều khiển trung tâm qua mạng BMS	Accessories Phụ kiện khác
 <p>RM05B(A) RM12F Đ.khiển đơn Đ.khiển đơn</p>	 <p>WDC-86E/KD WDC-120G/WK(A) Đ.khiển đơn Đ.khiển nhóm</p>	<p>1 cổng XYE, điều khiển tối đa 64 dàn lạnh và 8 hệ thống</p>  <p>CCM-180A/BWS(A)</p>		<p>GIẢI PHÁP 1</p>  <p>PHẦN CỨNG IMMP-BAC(A)</p>	<p>Phần cứng kết nối hệ VRF với máy tính sd BMS - giao thức Bacnet</p>  <p>IMMP-BAC(A)</p>	<p>Hotel Key Card Interface Module Bộ kết nối với bộ thẻ khóa/mở phòng</p>  <p>MA-HKCW MA-HKCS</p>
	 <p>WDC-120G/WK(HTHM) Cho V6R</p>	<p>6 cổng XYE, 1 cổng XYE điều khiển tối đa 64 dàn lạnh và 8 hệ thống, Tổng 384 IDU và 48 hệ thống</p>  <p>CCM-270B/WS(A)</p>		<p>+</p>  <p>PHẦN MỀM CÀI ĐẶT MÁY TÍNH IMMP-S(A)</p> <p>MỖI ODU LẮP THÊM DTS634P, PHẦN MỀM TÍNH DC TIỀN ĐIỆN SD CHO IDU</p>	<p>Phần cứng kết nối hệ VRF với máy tính sd BMS - giao thức Lonwork</p>  <p>GW-LON(A)</p>	<p>Infrared Sensor Controller Bộ cảm biến hồng ngoại</p>  <p>MA-IS</p>
		<p>1 cổng XYE, điều khiển tối đa 64 dàn lạnh và 8 hệ thống</p>  <p>CCM-15</p>	<p>Bộ Giữ IDU online khi bị cắt điện</p>	<p>GIẢI PHÁP 2</p>  <p>CCM-270B/WS(A)</p>	<p>- Phần cứng kết nối hệ VRF với máy tính sd BMS - giao thức Mobus</p>  <p>GW-MOD(A)</p> <p>- 1 cổng XYE, ĐK tối đa 64 IDU và 8 hệ thống</p>	<p>Diagnosis software</p>  <p>MCAC-DIAG-B(A) Phần mềm kiểm tra sự hoạt động HT VRF</p>
		 <p>CCM30/BKE-A</p> <p>1 cổng XYE, điều khiển tối đa 64 dàn lạnh và 8 hệ thống</p>		<p>+</p> <p>MỖI ODU LẮP THÊM DTS634P, PHẦN MỀM TÍNH DC TIỀN ĐIỆN SD CHO IDU</p>  <p>PHẦN MỀM CÀI ĐẶT MÁY TÍNH IMMP-S(A)</p>	<p>Phần cứng kết nối IDU, và với máy tính sd BMS - giao thức KNX</p>  <p>GW-KNX, GW-KNX(A)*</p>	<p>Bộ chia XYE XE Extension Kit</p>  <p>MA-EK</p> <p>Bộ duy trì IDU khi cắt điện IDU Online Kit</p>  <p>MCAC-PIDU</p>




















Note:
1. GW-KNX(A) is only used for High Temperature Hydro Module in V6R systems.
2. The diagnosis software is only compatible with VX/VXi outdoor unit.

CONTROLLER LINEUP for VC Pro

Wireless Remote Điều khiển không dây	Wired Controllers Điều khiển nối dây	Central Controllers Data converter Điều khiển trung tâm		Network Control System	BMS Gateways	Accessories
 <p>RM12D(C) Đ.khiển đơn</p>	 <p>WDC-86E/KD Đ.khiển đơn</p>	<p>1 cổng XYE, điều khiển tối đa 64 dàn lạnh và 8 hệ thống</p>  <p>CCM-180A/BWS(A)</p>		 <p>IMMP-BAC(A)</p>	 <p>IMMP-BAC(A)</p>	<p>Hotel Key Card Interface Module</p>  <p>MA-HKCW MA-HKCS</p>
	 <p>WDC-120G/WK(A) Đ.khiển nhóm</p>	<p>6 cổng XYE, 1 cổng XYE đ.khiển tối đa 64 IDU và 8 hệ thống,</p>  <p>CCM-270B/WS(A)</p> <p>Tổng 384 IDU và 48 hệ thống</p>	<p>+</p>  <p>IMMP-S(A)</p>		 <p>GW-LON(A)</p>	<p>Infrared Sensor Controller</p>  <p>MA-IS</p>
	 <p>CCM30/BKE-A</p> <p>Lưu ý: có thể áp dụng bộ CCM30/BKE-A (hai chiều), để không nhầm lẫn nhiều Model Tuy nhiên phải khóa chiều sườn</p>	 <p>CCM-30/BKE-B(A) CCM30</p> <p>1 cổng XYE, điều khiển tối đa 64 dàn lạnh và 8 hệ thống. Chỉ có chế độ lạnh</p>			 <p>GW-MOD(A)</p>	<p>Indoor Unit Online Kit</p>  <p>MCAC-PIDU XYE Extension Kit</p>
		 <p>CCM-15</p> <p>1 cổng XYE, điều khiển tối đa 64 dàn lạnh và 8 hệ thống</p>			 <p>GW-KNX</p>	 <p>MA-EK</p>

CONTROLLER LINEUP for V4+I(except 10/12HP)

V4+W/ Mini VRF- Standard Series

Wireless Remote Controllers Điều khiển không dây	Wired Remote Controllers Điều khiển nối dây	Central Controllers Điều khiển trung tâm		Network Control System Data Converter Điều khiển trung tâm sử dụng máy tính	BMS Gateways Điều khiển trung tâm qua mạng BMS	Accessories Phụ kiện khác
 <p>RM05B(A) Đ.khiển đơn</p>	 <p>WDC-86E/KD Đ.khiển đơn</p>	<p>1 cổng XYE, điều khiển tối đa 64 dàn lạnh và 8 hệ thống</p>  <p>CCM-180A/BWS(A)</p>		<p>GIẢI PHÁP 1 M-interface Gateway</p>  <p>PHẦN CỨNG</p>	<p>Phần cứng kết nối hệ VRF với máy tính sd BMS - giao thức Bacnet</p>  <p>IMMP-BAC(A)</p>	<p>Bộ kết nối với bộ thẻ khóa/mở phòng Hotel Key Card Interface Module</p>  <p>MA-HKCW MA-HKCS</p>
 <p>Đ.khiển đơn RM12F</p>	 <p>Đ.khiển nhóm WDC-120G/WK(A)</p>	<p>6 cổng XYE, 1 cổng XYE đ.khiển tối đa 64 IDU và 8 hệ thống, Tổng 384 IDU và 48 hệ thống</p>  <p>CCM-270B/WS(A)</p>		<p>+</p> <p>IMM Software</p>  <p>PHẦN MỀM CÀI ĐẶT MÁY TÍNH</p>	<p>Phần cứng kết nối hệ VRF với máy tính sd BMS - giao thức Lonwork</p>  <p>GW-LON(A)</p>	<p>Infrared Sensor Controller Bộ cảm biến hồng ngoại</p>  <p>MA-IS</p>
		<p>1 cổng XYE, điều khiển tối đa 64 dàn lạnh và 8 hệ thống</p>  <p>MD-CCM09</p>		 <p>CCM-15</p>	<p>- 1 cổng XYE, ĐK tối đa 64 IDU và 8 hệ thống Modbus Gateway - Phần cứng kết nối hệ VRF với máy tính sd BMS - giao thức Modbus</p>  <p>CCM-18A/N CCM-18A/N-U</p>	<p>Network Electricity Distribution Module (Special for Mini VRF) Phần mềm kiểm tra sự hoạt động HT VRF</p>  <p>MD-NIM10</p>
		<p>1 cổng XYE, điều khiển tối đa 64 dàn lạnh và 8 hệ thống. Chỉ có chế độ lạnh</p>  <p>CCM30</p>		<p>MỖI ODU LẮP THÊM DTS634P, PHẦN MỀM TÍNH DC TIỀN ĐIỆN SD CHO IDU MỖI ODU LẮP THÊM DTS634P, PHẦN MỀM TÍNH DC TIỀN ĐIỆN SD CHO IDU</p> <p>PHẦN MỀM CÀI ĐẶT MÁY TÍNH</p>	<p>Phần cứng kết nối IDU, và với máy tính sd BMS - giao thức KNX</p>  <p>GW-KNX</p>	<p>Bộ chia XYE Bộ duy trì IDU khi cắt điện XYE Extension Kit Indoor Unit Online Kit</p>  <p>MA-EK MCAC-PIDU</p>



Remote Controllers

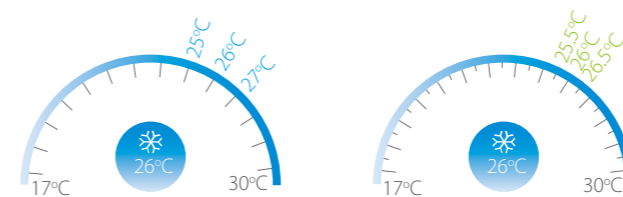
Features

Model	RM05B(A)	RM12F
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Address setting	●	●
Follow me	×	●
Eco mode	●	●
Silent mode	●	●
Display shut-off	●	●
Daily timer	●	●
Keyboard lock	●	●
Background light	●	●
Indoor Unit parameter setting	●	●
Dimensions (HxWxD) (mm)	150x65x20	170x48x20
Batteries	1.5V (LR03/AAA) × 2	
Indoor unit series	2 nd generation AC/DC IDU	

Note:
●: equipped as standard; ×: without this function

0.5°C/1°C Setting Temperature Adjustment

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



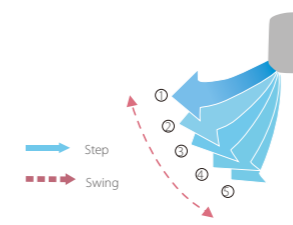
Digital Display On/Off

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.



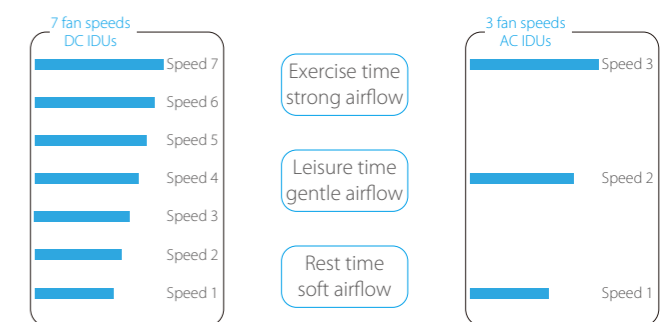
Follow Me

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.



Multiple Fan Speed Control

The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



Wired Controllers




Features

Model	WDC-86E/KD	WDC-120G/WK (A)
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	●	●
Silent mode	●	●
Remote signal receiver	●	●
Clean filter reminder	●	●
Extension function	×	●
Daylight saving time	×	●
Clock display	×	●
Dot matrix display	×	●
Error check function	●	●
System parameter querying	●	●
After Hours/Off Timer function	●	●
Language	English	English, French, Spanish, Polish
HRV control	×	●
Puro-Air Kit control	×	●
System setting control	●	●
Dimensions (WxHxD) (mm)	86x86x18	120x120x20
Power supply	18V DC	18V DC
Indoor unit series	2 nd generation AC/DC IDU	

Note:

●: equipped as standard; ×: without this function
when the 2nd generation AC indoor units connect to group controller WDC-120G/WK(A), the indoor units need to customize D1 D2 terminals.

Model	 WDC-120G/WK(HTHM)
On / Off	●
Mode selection	●
Water Outlet Temperature Control	●
Silent Mode	●
Screen lock	●
Room Temperature Control	●
Multiple Set Points	●
Address setting	●
Disinfection Mode	●
Holiday Home Mode	●
Holiday Away Mode	●
°F/°C display	●
Keyboard lock	●
Background light	●
Daily timer	●
Weekly schedule timer	●
Auto restart	●
Child Lock	●
Bi-directional communication	●
Service Call	●
DHW Temperature Control	●
Parameter Checking	●
Silent mode	●
Remote signal receiver	●
Maximum Power Limitation	●
Operating Parameters Checking	●
Heating Temperature Control	●
Clock display	●
Dot matrix display	●
Error check function	●
Language	English, French, Spanish, Polish
Dimensions (WxHxD) (mm)	120x120x20
Power supply	18V DC
Indoor unit series	High Temperature Hydro Module

Note:
●: equipped as standard

Group Control

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



Note: when the 2nd generation AC indoor units connect to group controller WDC-120G/WK, the indoor units need to customize D1 D2 terminals. Group control is not available for 2nd generation AC Wall Mounted Series.

Main or Secondary Controller Setting

Two controllers can be used together with single indoor unit. Operating mode and settings would be 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.



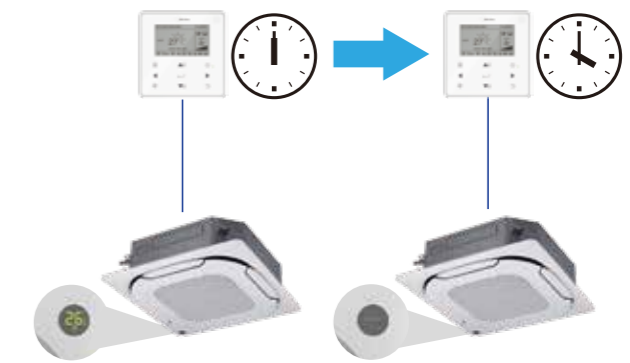
Buzzer Sound On/Off

The buzzer sound of the indoor unit can be turned off to create a quieter environment.



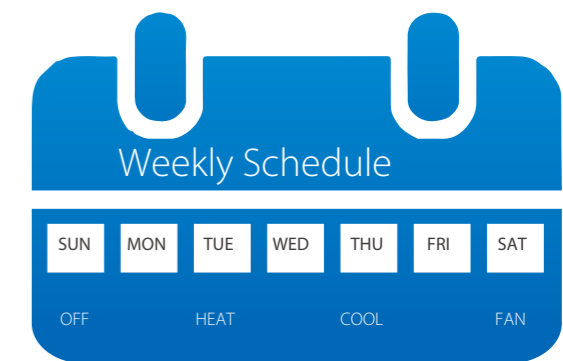
Off Timer Function

We can use the wired controller to set an automatic off timer or after hours function for the indoor unit.



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 VX/VXi/VC pro/V6R/V4+I(10-12HP) outdoor unit connected to 2nd generation DC indoor unit.

Central Controllers



Features

Function	CCM-180A/BWS	CCM-270B/WS
Max. number of indoor units	64	384
Max. number of refrigerant systems	8	48
Touch screen	● (6.2-inch)	● (10.1-inch)
On/Off	●	●
Mode selection	●	●
Temperature setting	● (0.5°C steps)*	
7-speed fan control		●*
Auto swing	●	●
5-step swing louver*	●	●
Room temperature display	●	●
Holiday setting	●	●
°C/°F display	●	●
Schedule management	●	●
Clock display	●	●
2 permission levels	●	●
Extension function	●	×
Indoor unit type/model recognition		●*
Indoor unit with capacity larger than 16kW recognition		●*
HRV Control	●	●
Visual schematic	×	●
Energy management	●	●
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, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Hungarian, Russian, Korean	
Dimensions (W×H×D) (mm)	182×123×34	270×183×27
Power supply	12V DC	24V AC
Outdoor unit series or indoor unit series	All series	

Note:

●: equipped as standard; ×: without this function

*means this function is only available for VX/VXi/Vcpro/V6R/V4+(10-12HP), Mini C outdoor unit.

Function	CCM30	CCM09
Max. number of indoor units	64	64
Max. number of refrigerant systems	8	8
Touch screen	×	×
On/Off	●	●
Mode selection	●	●
Temperature setting	● (1°C steps)	
7-speed fan control	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	×	×
Indoor unit with capacity larger than 16kW recognition	Identify as two or four units (depend on units model)	
HRV Control	●	●
Visual schematic	×	×
Energy management	Mode/Remote controller limit	
Group management	×	×
Error check function	●	●
System parameter querying	●	●
USB output	×	×
Report display	×	×
Operation log	×	×
LAN access	×	×
Language supported	English	
Dimensions (WxHxD) (mm)	179x119x74	179x119x74
Power supply	198-242V AC (50/60Hz)	
Outdoor unit series or indoor unit series	VC pro/ V4+(except for 10-12HP)/ V4+W/Mini VRF-Standard Series ODU	V4+(except 10/12HP)/V4+W/ Mini VRF- Standard Series ODU

Note:
 ●: equipped as standard; ×: without this function
 *means this function is only available for VX/Xi/VC pro/V6R/V4+(10-12HP) outdoor 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.



Unit Model Recognition

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

Icon	Model	Icon	Model
[Icon]	Low static pressure and middle static pressure (L-DUCT/NA-DUCT)	[Icon]	Vertical concealed installation/vertical surface mounting (VS)
[Icon]	High static pressure (H-DUCT)	[Icon]	Four-way Cassette
[Icon]	Furler (FAPL)	[Icon]	Compact Four-way Cassette (COMFACT)
[Icon]	Wall mounting (WALL)	[Icon]	Ceiling floor type (C&F)
[Icon]	Old IDU (1st Gen. IDU)	[Icon]	Two-way Cassette
[Icon]	One-way Cassette	[Icon]	CONSOLE
[Icon]	Group control device icon	[Icon]	New ODU (New generation ODU)

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 VX/Xi/VC pro outdoor unit.

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.



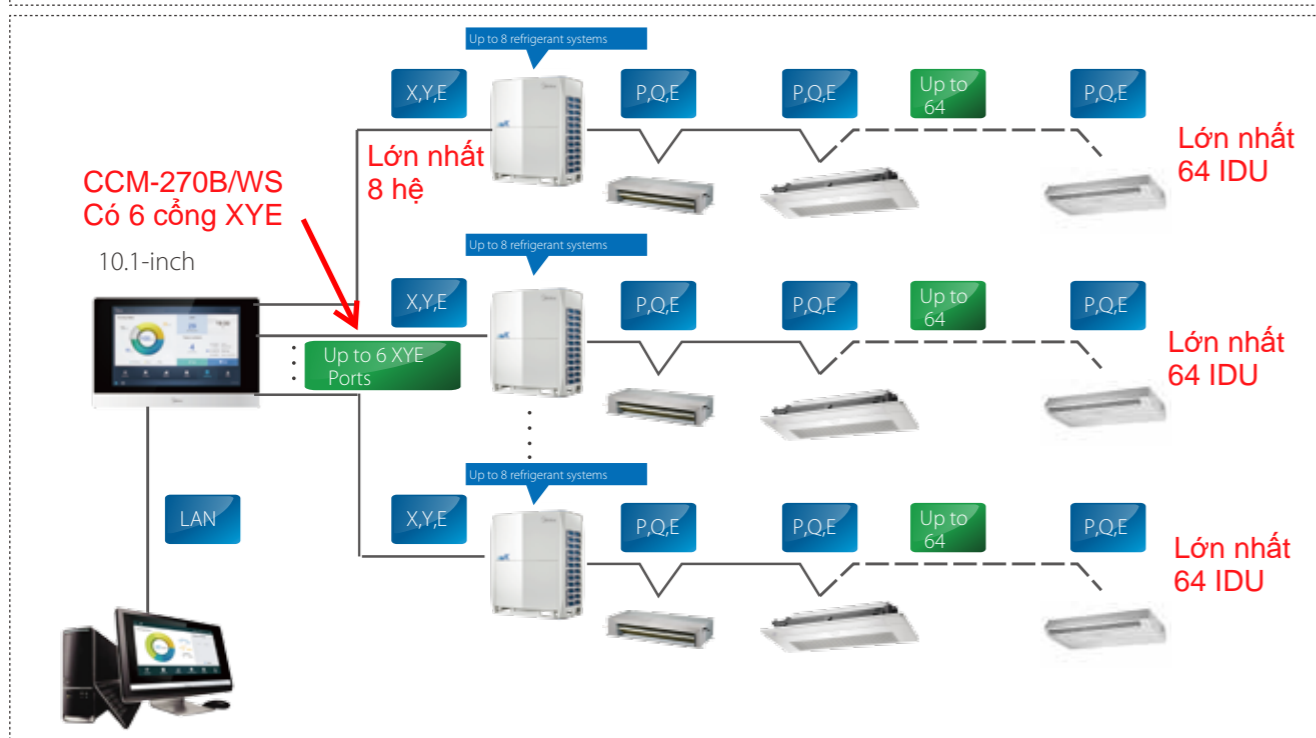
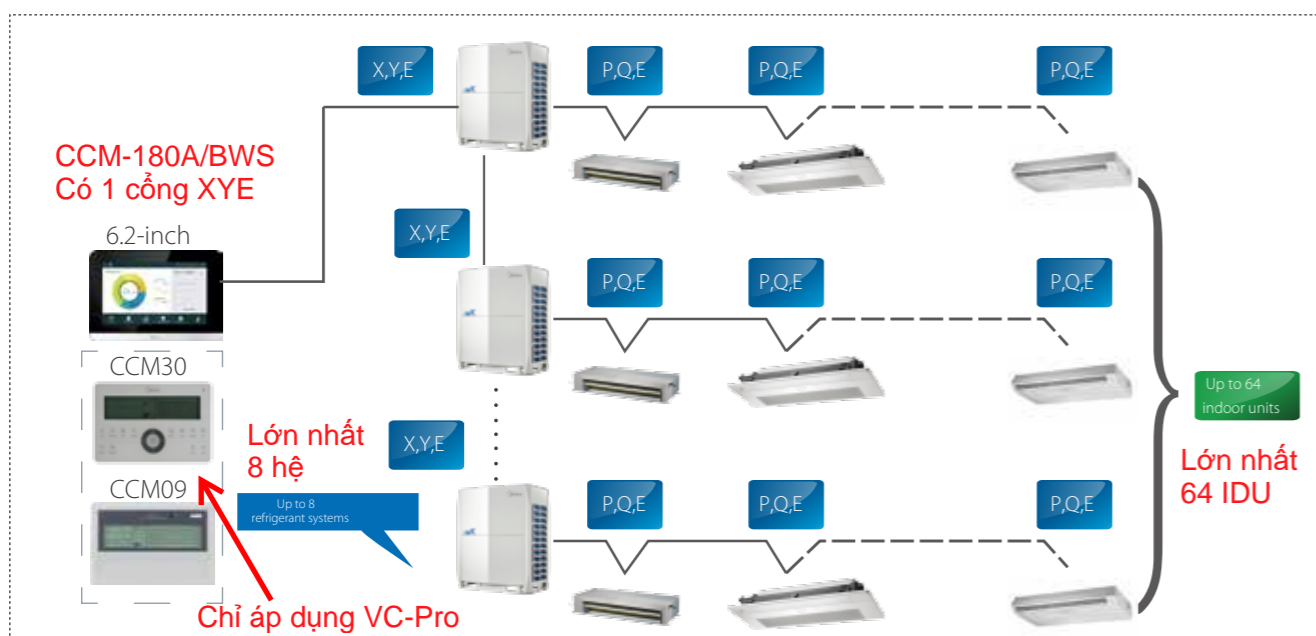
LAN Access

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

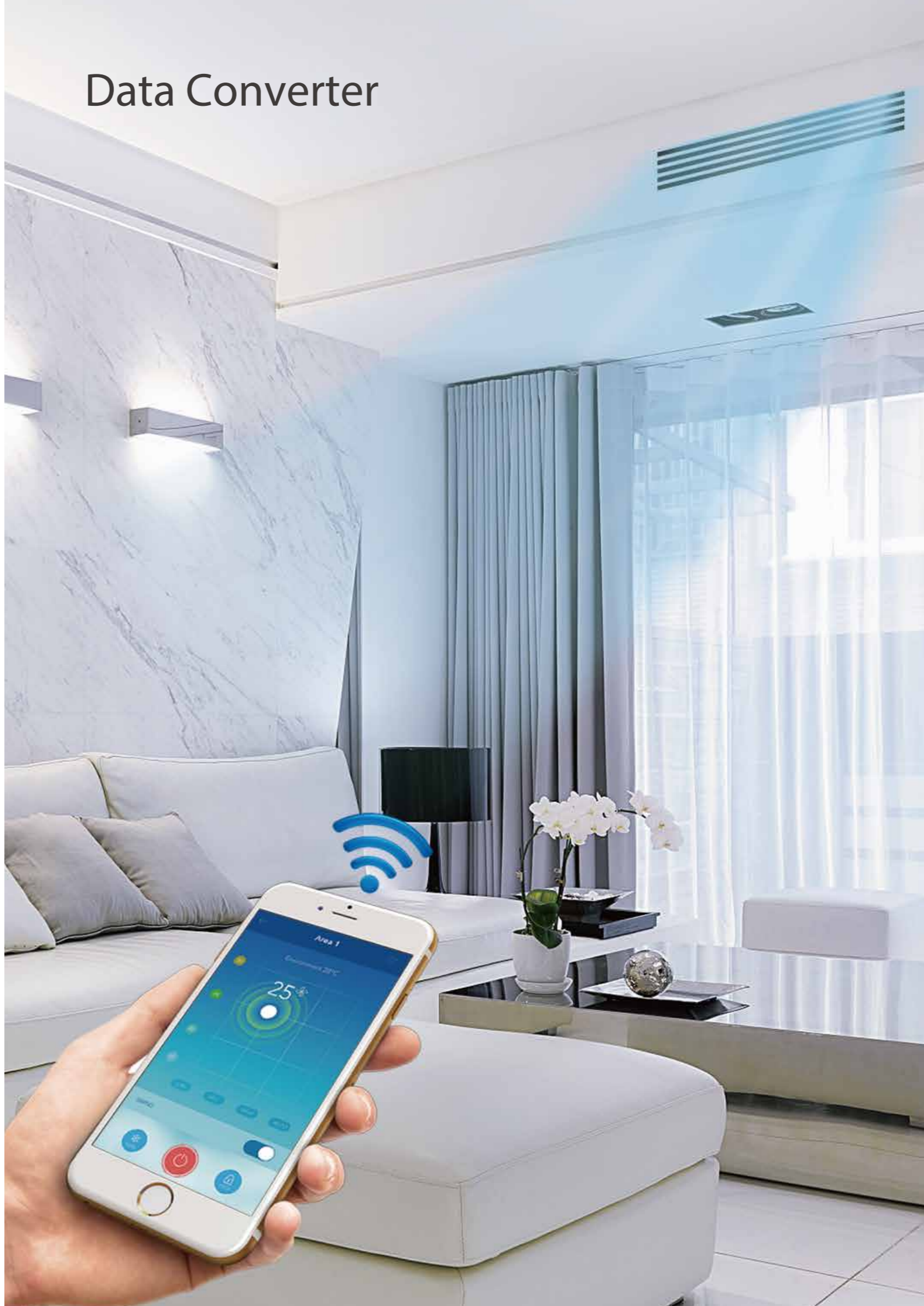




Wiring Flexibility

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



Data Converter



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*	

Note:
 ●: equipped as standard; ×: without this function
 *For the V6R series, the CCM-15 is under development.

High Compatibility

Compatible with a variety of operating systems.



Easy Configuration

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



User Friendly Interface

Clear, stylish interface designed by leading industrial designers.



Convenient Operation

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



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.



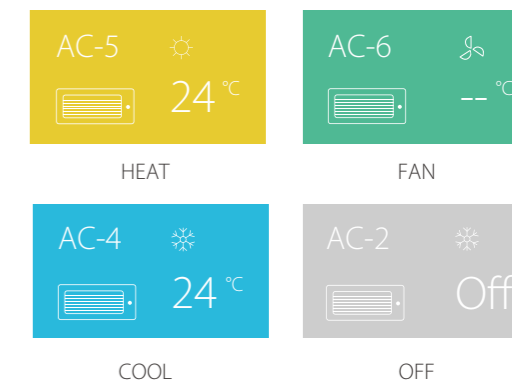
Anytime Control

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.



Virtual Experience

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



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.



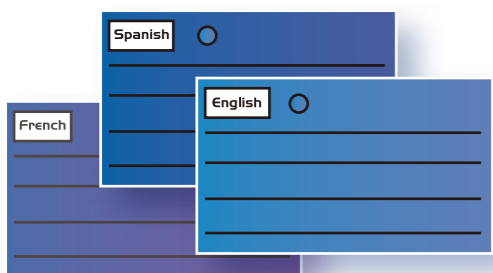
2 Permission Levels

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



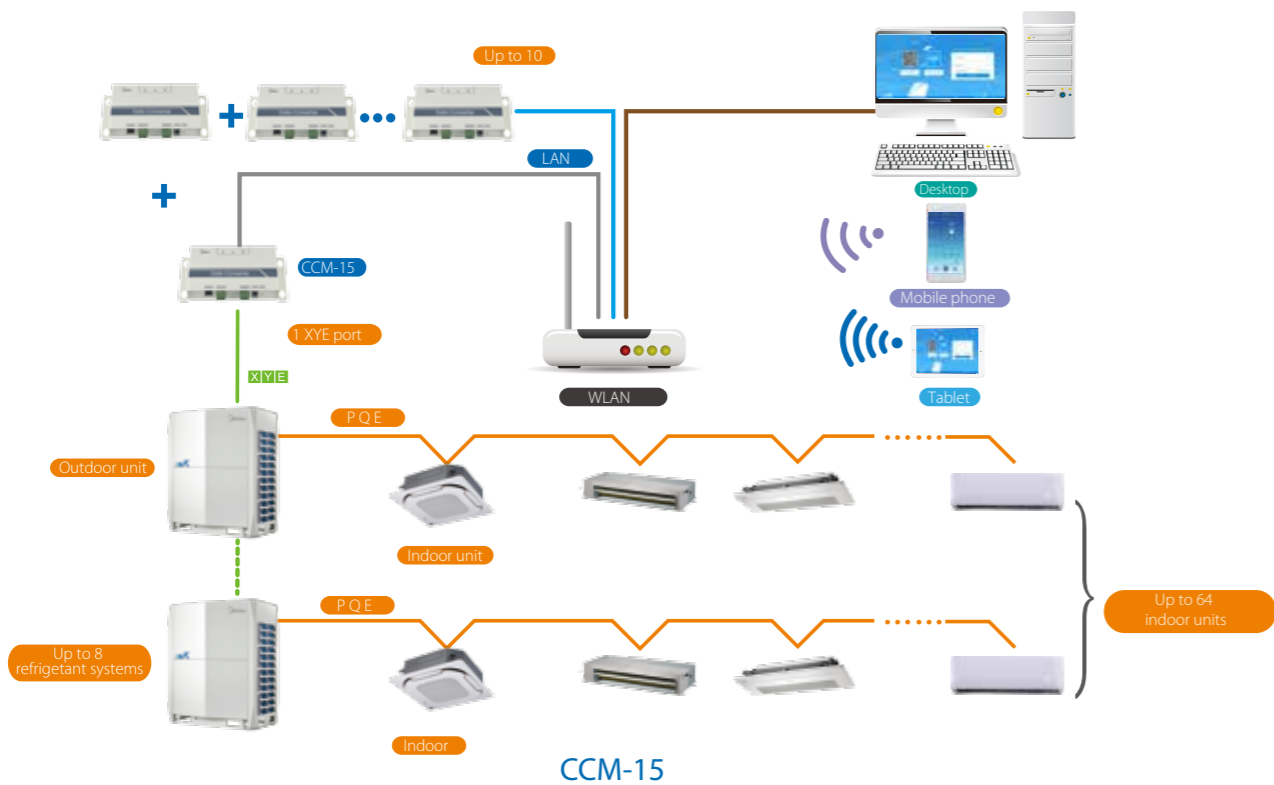
Multiple Language Options

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



Software model			
	IMMP-S(A)		IMM
Hardware model			
	IMMP-BAC(A)	CCM-270B/WS(A)	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, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Hungarian, Russian, Korean		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	VX/VXi/VC pro/V6R/V4+I(10-12HP)/Mini C		V4+I(except for 10-12HP)/V4+W/Mini VRF-Standard Series

Note:
 ●: equipped as standard; ✗: without this function
 *means this function is only available for VX/VXi/VC pro/V6R/V4+I(10-12HP) outdoor unit.

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 VX/VXi/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.



Public and Idle Devices

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



Floor Plan

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

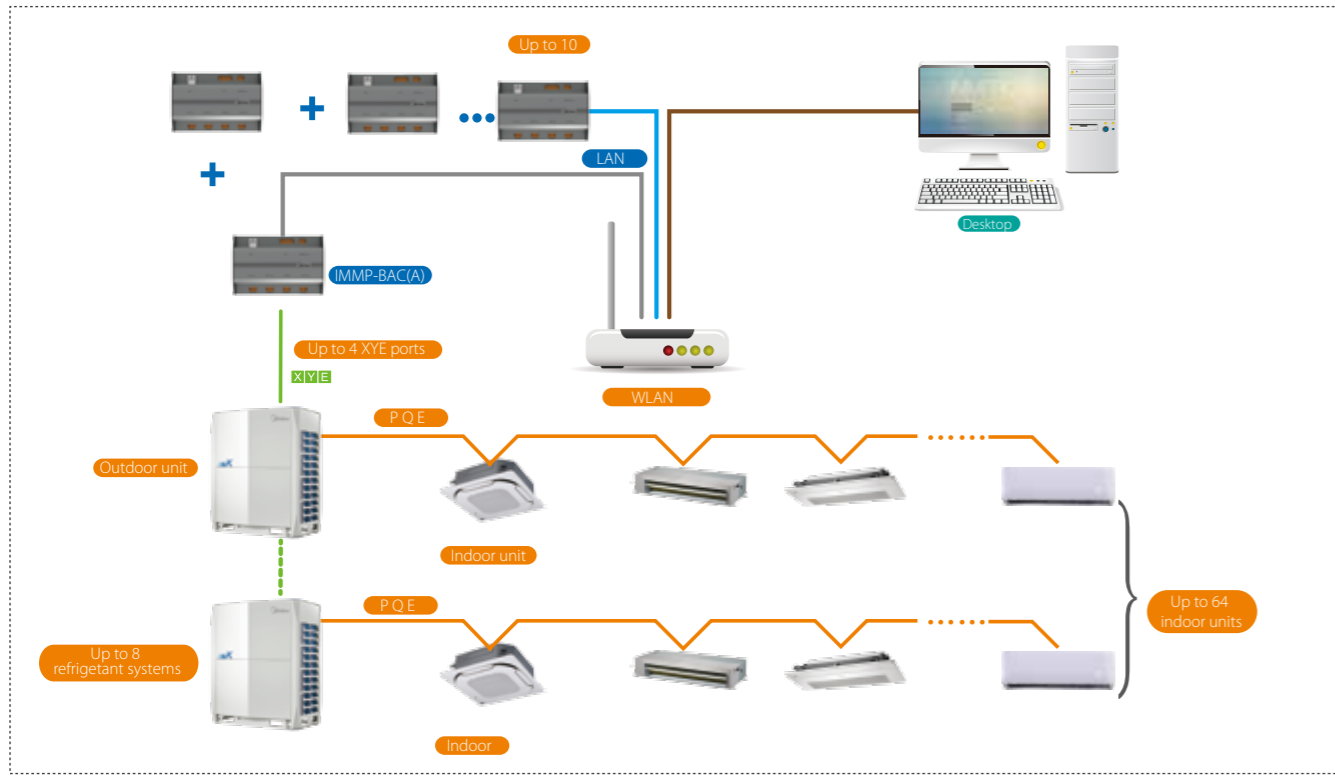
Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.



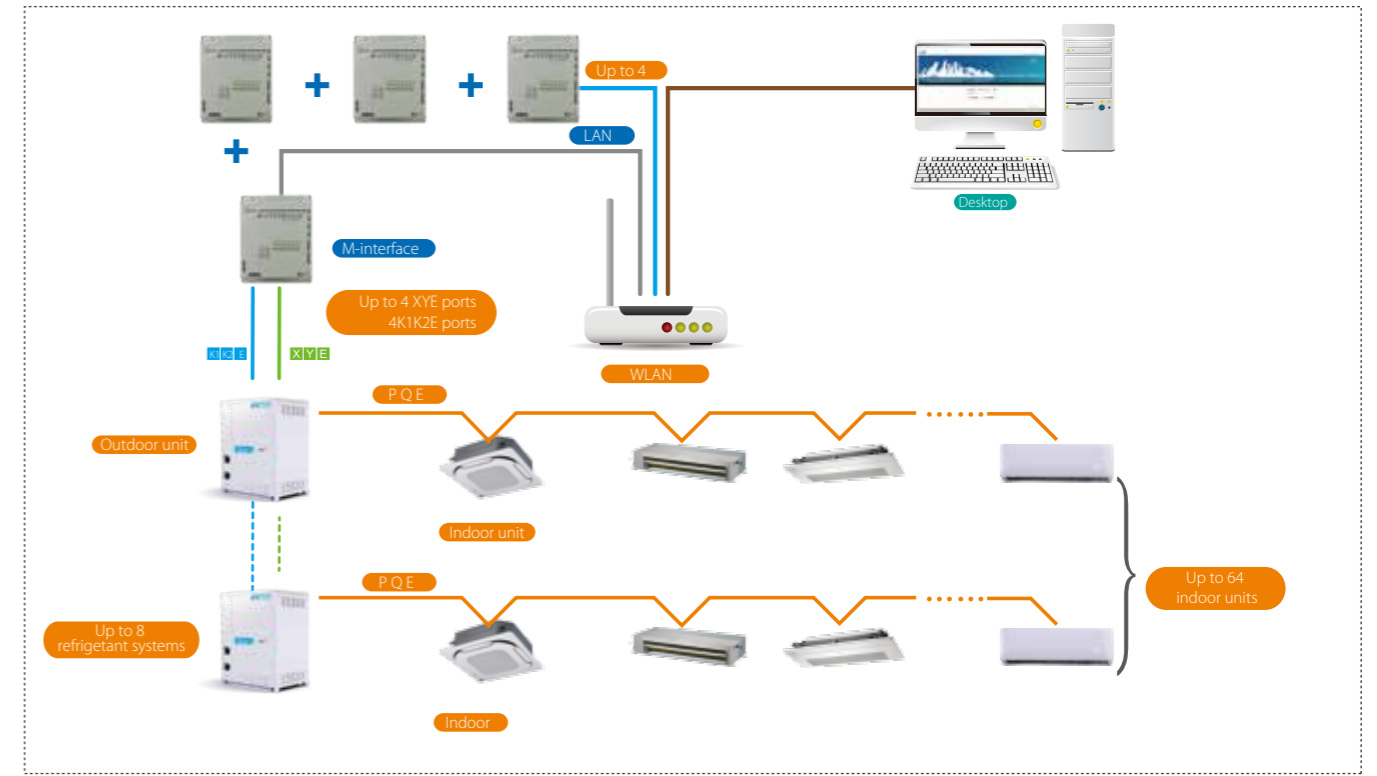
Xpress Installation

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

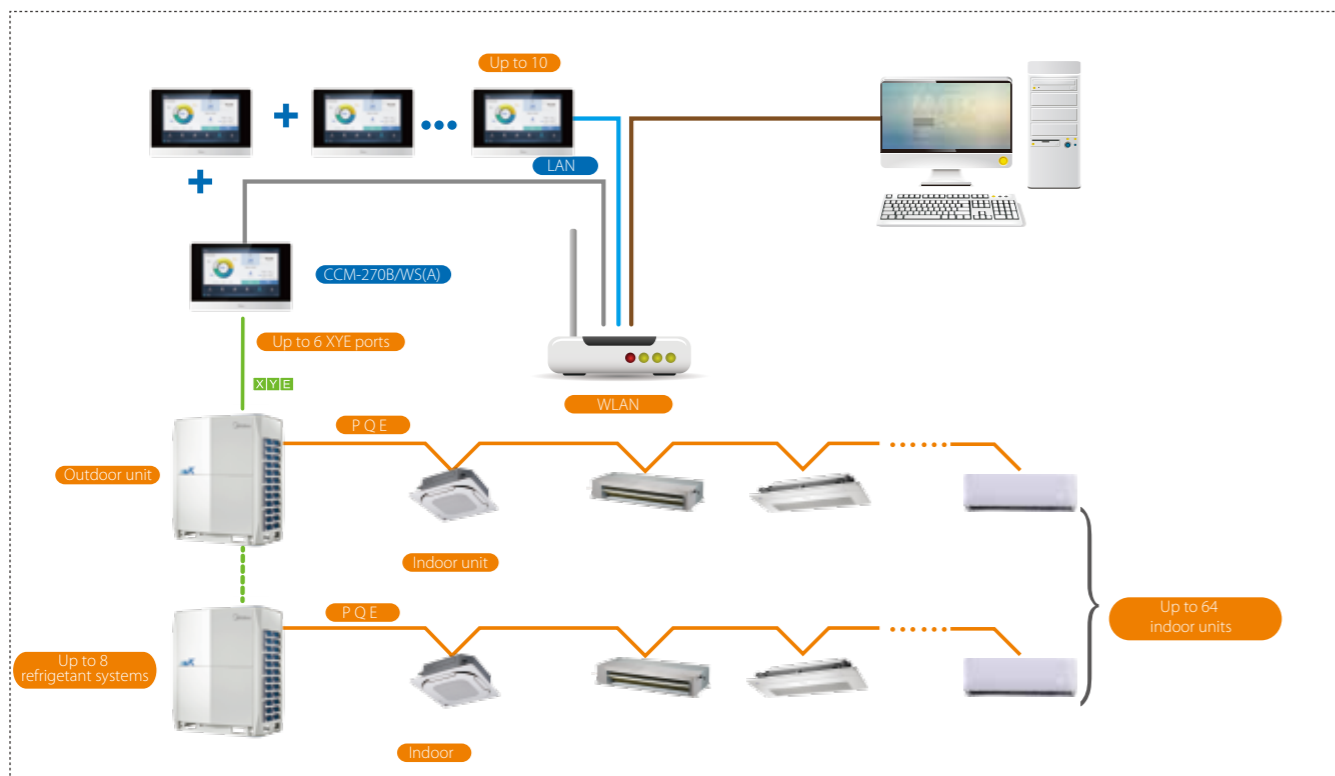




IMMP-BAC(A)



M-interface



CCM-270B/WS(A)

M-BMS MAX

Project Qty Level A **57,028**

Current month **5,325**

VRF 3,204 Air-cooled modular chiller water system 450
Air-cooled heat pump 1,541 Centrifugal/screw chiller water system 130

2019年12月24日 20:16:23 Shunde

	12.25 Wednesday	12.26 Thursday	12.27 Friday	12.28 Saturday
Weather	☁️	☁️	☁️	☁️
Temp	20	16-26°C	13-25°C	15-21°C
NW Wind	2level	16-26°C	13-25°C	15-21°C
Cloud	Cloudy	Cloudy	Cloudy	Light rain

Transient Chain Indexes

Yesterday		Today
21.40	Outdoor temp. °C	19.37
82.27	RH %	81.56
19.30	WB temp. °C	17.29
18.28	Dew-point temp. °C	16.15
13.30	Moisture content g/kg	11.60
2.32	Total power kW	1.26
0.00	Cooling capacity kW	0.00

Real-Time Monitoring Data



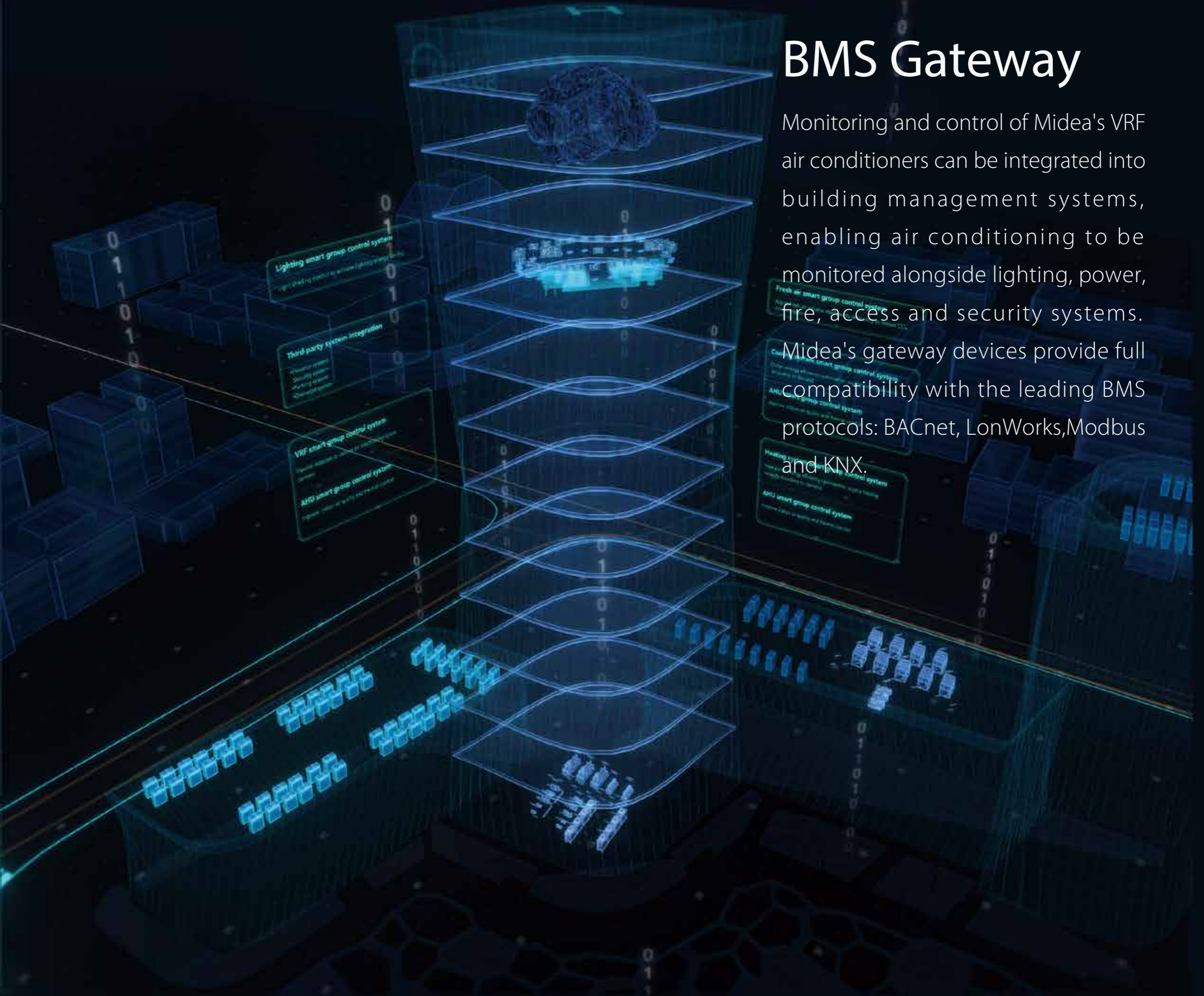
Plant Room Power Data



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.



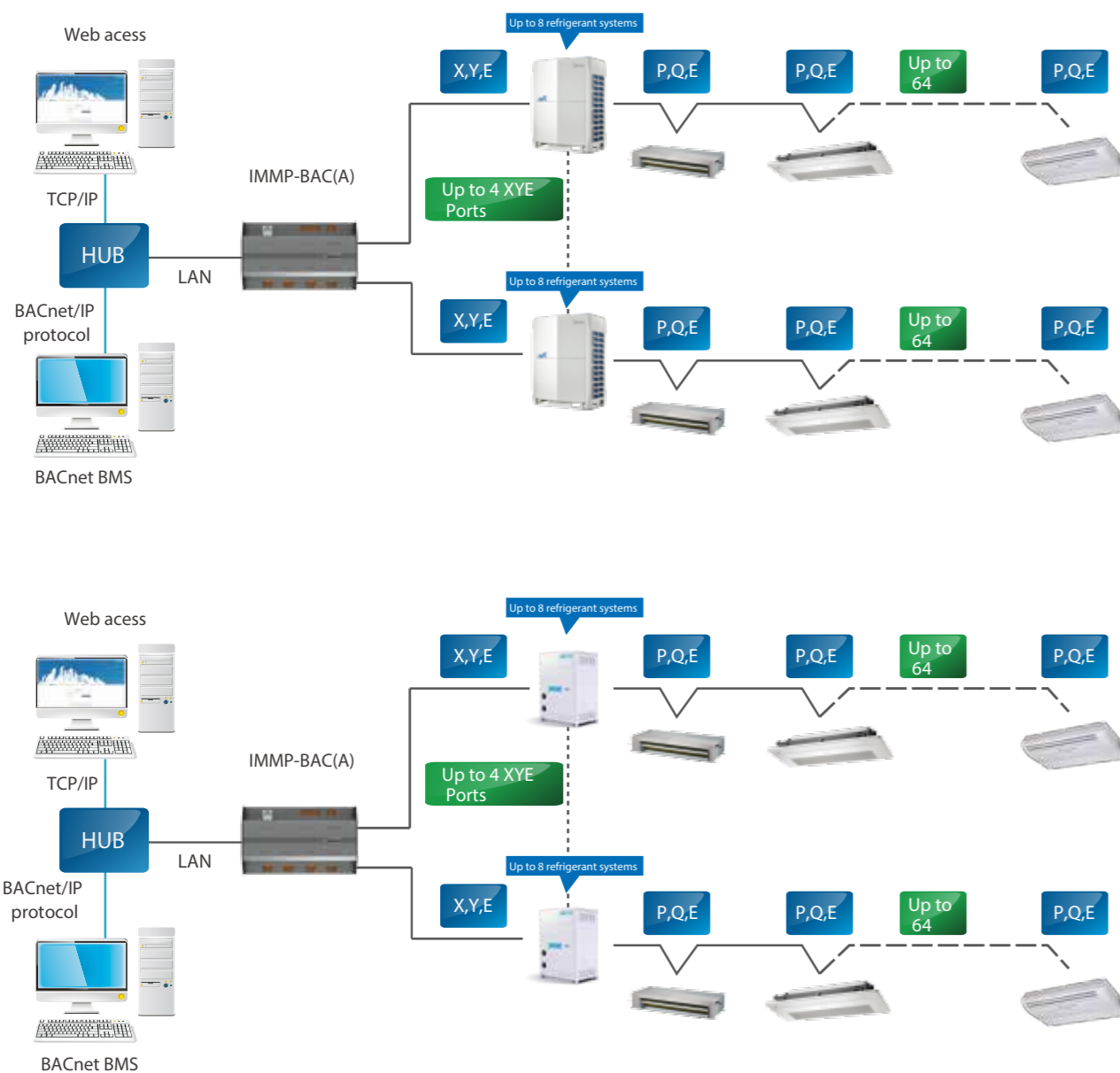
BACnet Gateway

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.



Note: Need to use a protocol conversion kit if you want to get the ODU parameters also for V4+W/ V4+I(Except 10/12HP) ODU

Features

Model		 IMMP-BAC(A)
Max. number of devices (include indoor and outdoor units)		256
Max. number of refrigerant systems		32
Control	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Energy management	●
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)		116x190x67
Power supply		24V AC~50/60Hz
Outdoor unit series		All series

Note:
●:equipped as standard

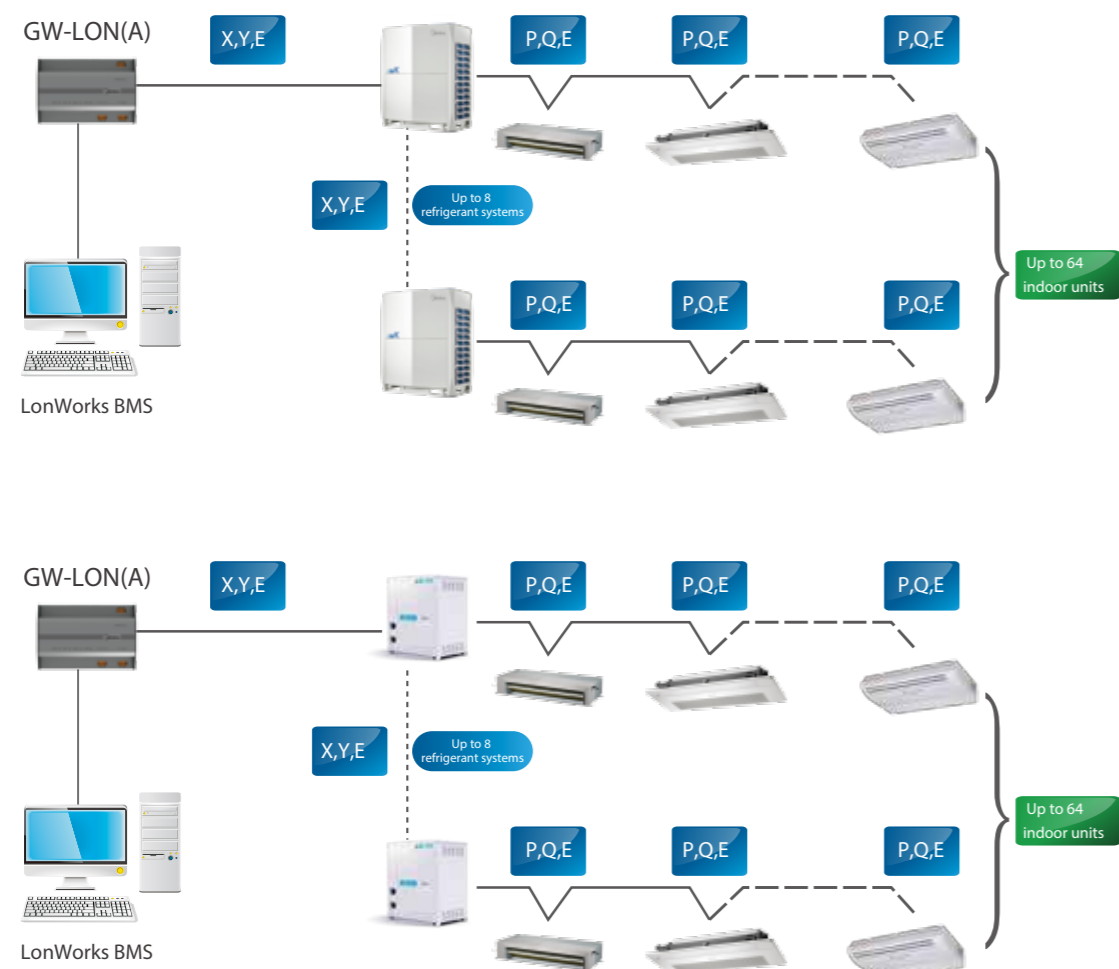
LonWorks Gateway

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(A)
Max. number of indoor units		32
Max. number of refrigerant systems		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)		116x170x67
Power supply		24V AC~50/60Hz
Outdoor unit series		All series

Note:
●: equipped as standard

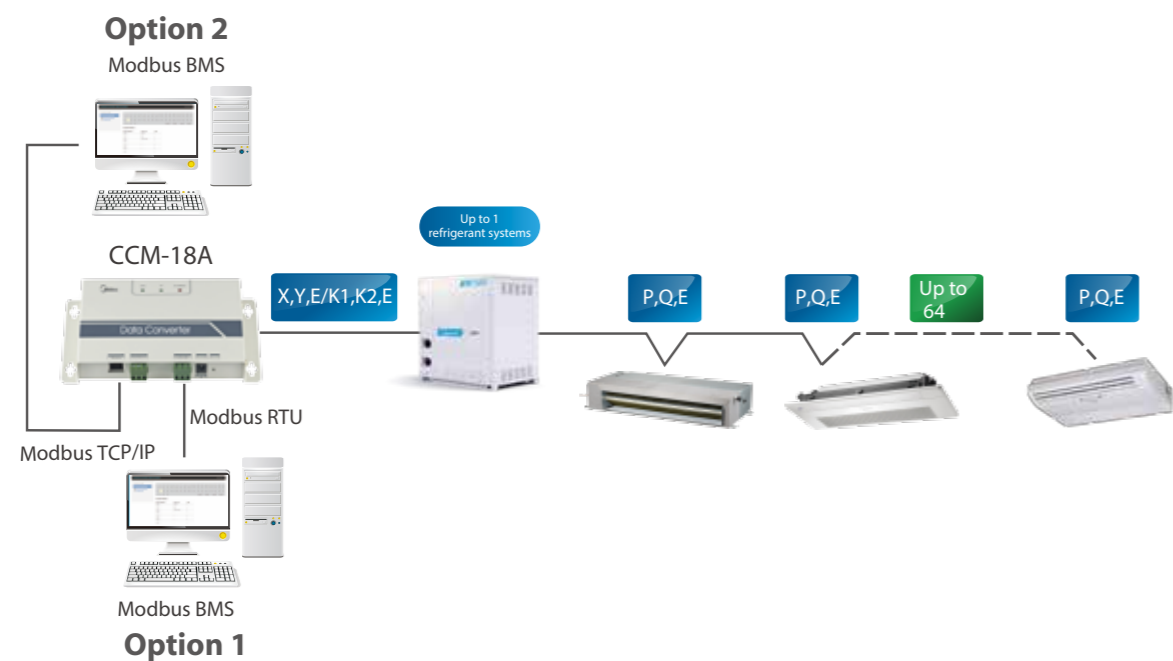
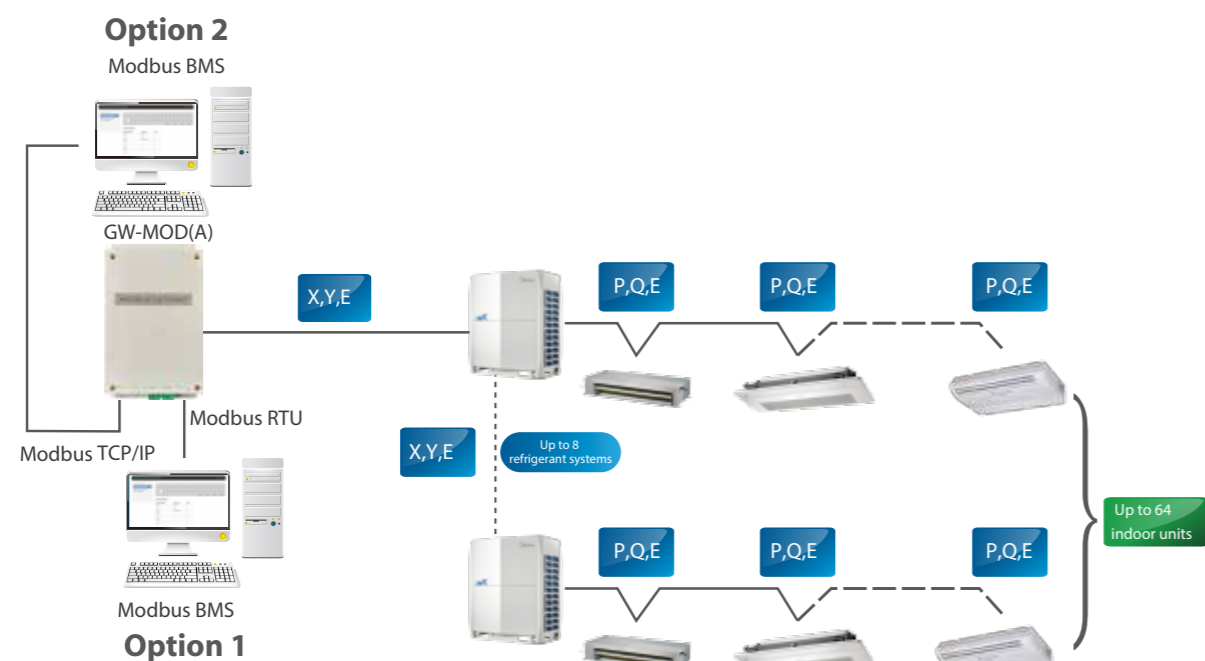
Modbus Gateway

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(A)	CCM-18A/N	CCM-18A/N-U
Max. number of indoor units		64	64	16
Max. number of refrigerant systems		8	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	●	●	×
	Number of operating IDUs	●	●	×
	Outdoor ambient temperature	●	●	×
	Error status	●	●	×
LAN access		●	●	●
Dimensions (HxWxD)(mm)		225x128x28	187x115x28	
Power supply		12V DC	1 phase, 100-240V, 50/60Hz	
Outdoor unit series		VX/VXi/VC pro/V6R/V4+(10-12HP), Mini C ODU	V4+(Except 10/12HP)/V4+W/Mini VRF-Standard Series	

Note:
●: equipped as standard; ×: without this function

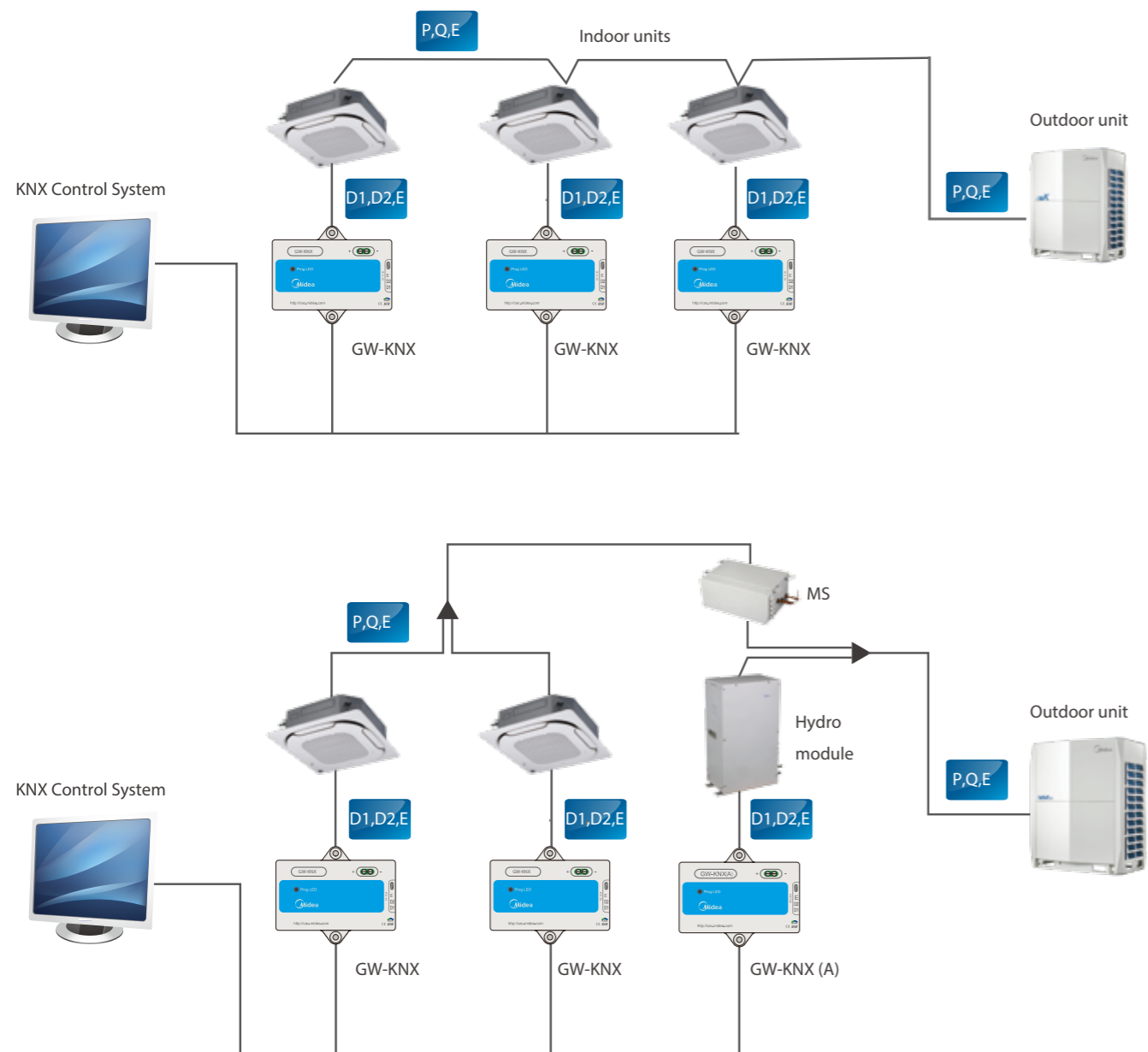
KNX Gateway

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		 GW-KNX
Max. number of indoor units		1
Control	On / Off	●
	Mode selection	●
	Temperature setting	● (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
Power supply		29VDC (KNX bus supply)
Indoor unit series		2 nd generation AC/DC IDU

Model		 GW-KNX(A)
Max. number of HTHM		1
Control	On / Off	●
	Room temperature	●
	Water outlet temperature	●
	Mode Switching	●
	Temperature control in water heating mode	●
Monitoring	On / Off	●
	Current running mode	●
	Water outlet temperature	●
	Room temperature	●
	Control status	●
	Current temperature in water heating mode	●
Error codes	●	
Dimensions (HxWxD)(mm)		85x51x16
Power supply		29VDC (KNX bus supply)
Indoor unit series		High Temperature Hydro Module for V6R

Note:
●: equipped as standard



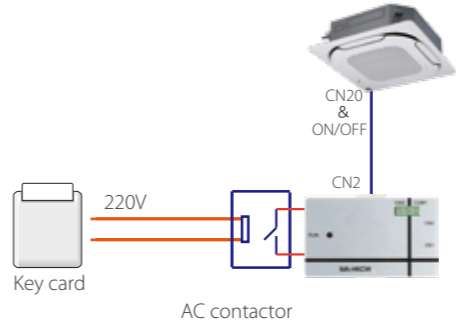
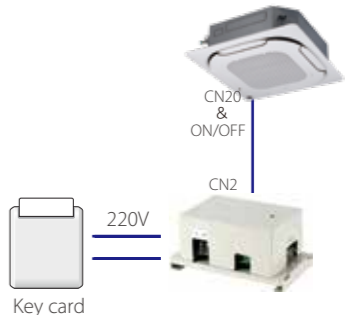


Hotel Key Card Interface Modules

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	MA-HKCW	MA-HKCS
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)	220V AC
Indoor unit series	All series	

Note:
●: equipped as standard



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	MA-IS
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


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(A)
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, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Hungarian, Russian, Korean
Outdoor unit series		VX/VXi ODU

Note:

●: equipped as standard

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 service engineers, to understand the operating status of the system at a glance.



Parameter Querying

Access all the system parameters easily.



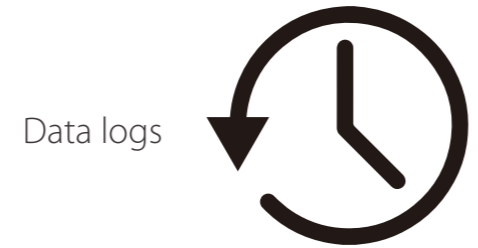
Use-friendly Interface

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



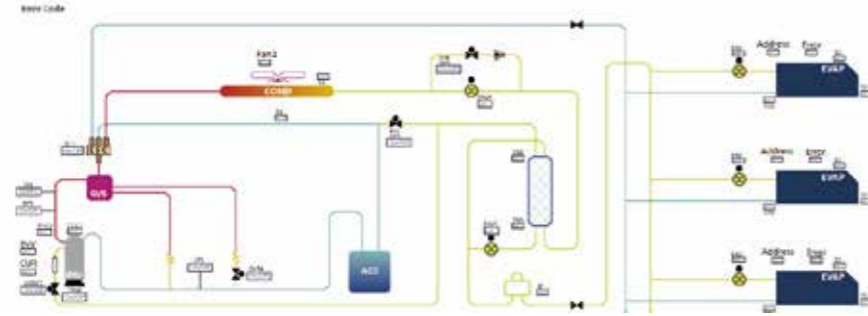
Data Logs

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



Diagrams

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



Wiring Schematic




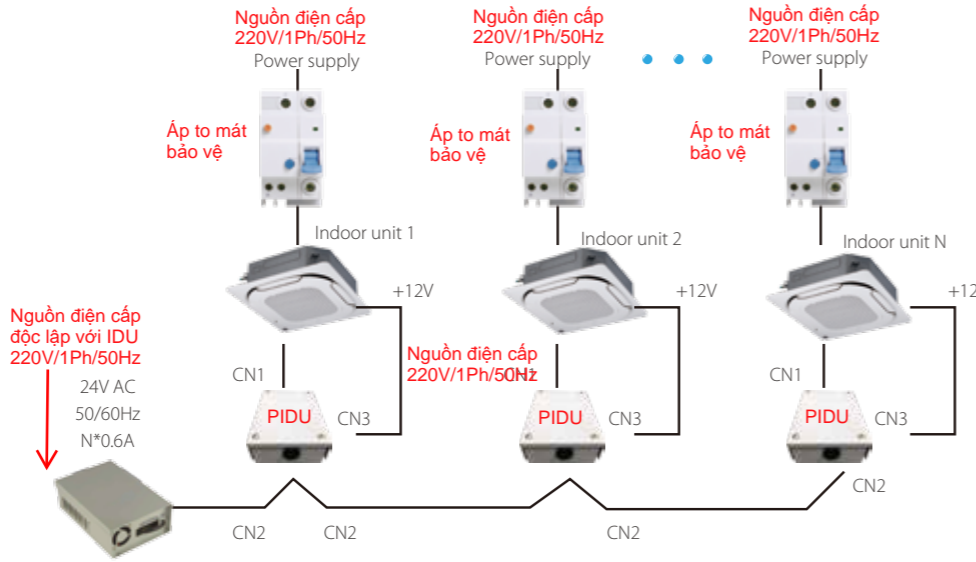
Indoor Unit Online Kit



IDU Online Kit

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


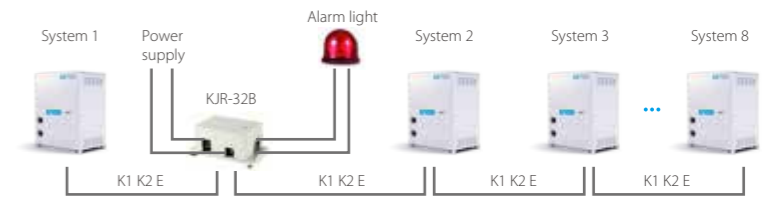

Model	 MCAC-PIDU
Network flexibility	 <p>The diagram illustrates the network flexibility of the MCAC-PIDU. It shows multiple indoor units (Indoor unit 1, Indoor unit 2, ..., Indoor unit N) connected to a central PIDU (Power Independent Device Unit). Each indoor unit has its own power supply (Nguồn điện cấp 220V/1Ph/50Hz) and a fuse (Áp to mát bảo vệ). The PIDU units are connected to a transformer (Biến thế đổi 220VAC --> 24VAC) via CN2 ports. The PIDU units are also connected to the indoor units via CN1 and CN3 ports, providing +12V power to the indoor units.</p>
Dimensions (HxWxD)(mm)	146.6 x 100.6x 46.8
Power supply	24V AC
Indoor unit series	All series

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


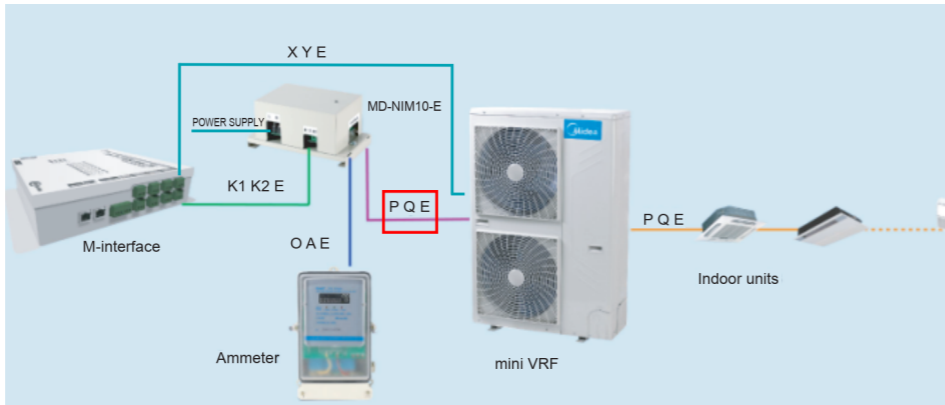
Model	 KJR-32B
Max. number of refrigerant systems	8
Wiring flexibility	<p>Wiring connection 1:</p>  <p>Wiring connection 2:</p>  <p>The diagram shows two wiring configurations for the KJR-32B module. In 'Wiring connection 1', the module is connected to a power supply and an alarm light, and then to eight refrigerant systems (System 1 to System 8) via K1, K2, and E terminals. In 'Wiring connection 2', the module is connected to a power supply and an alarm light, and then to eight refrigerant systems (System 1 to System 8) via K1, K2, and E terminals.</p>
Dimensions (HxWxD)(mm)	85X150X70
Power supply	198-242V (50/60Hz)
Outdoor unit series	V4+I(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


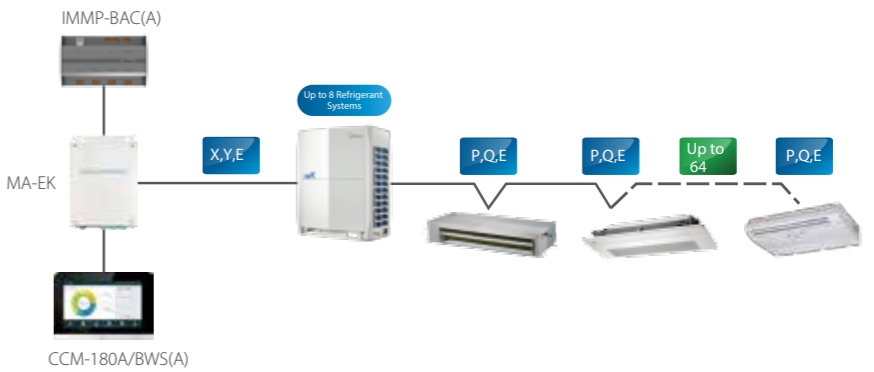
Model	 MD-NIM10
Max. number of outdoor unit	1
Wiring flexibility	
Dimensions (HxWxD)(mm)	85X150X70
Power supply	198-242V (50/60Hz)
Outdoor unit series	Mini VRF - Standard Series

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 Central 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*

*Note: Need to use a protocol conversion kit if you want to get the ODU parameters also for V4+W/ V4+(Except 10/12HP) ODU

VRF DX AHU Control Box

High Efficiency

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



VRF DX AHU Control Box

Wide Capacity Range

Four control boxes can be used in parallel, giving an overall capacity range of 0.8HP to 80HP.



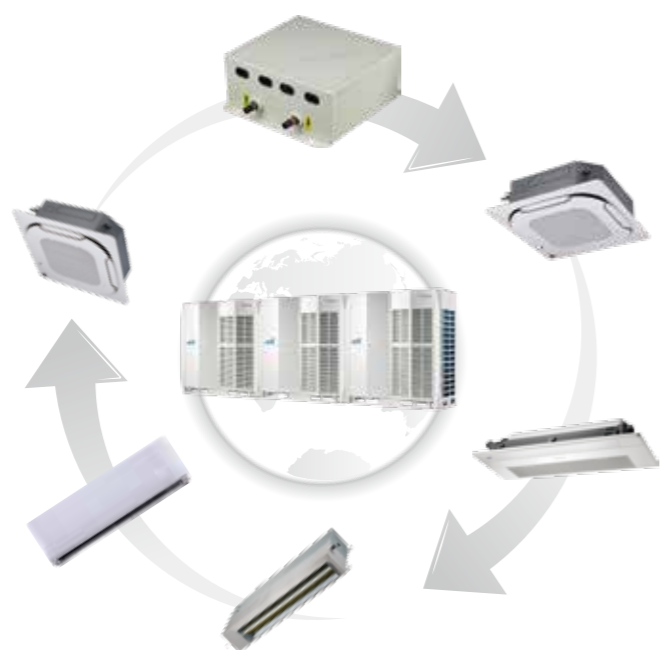
AHUKZ-00B: 2.2~9kW
 AHUKZ-01B: 9~20kW
 AHUKZ-02B: 20~36kW
 AHUKZ-03B: 36~56kW



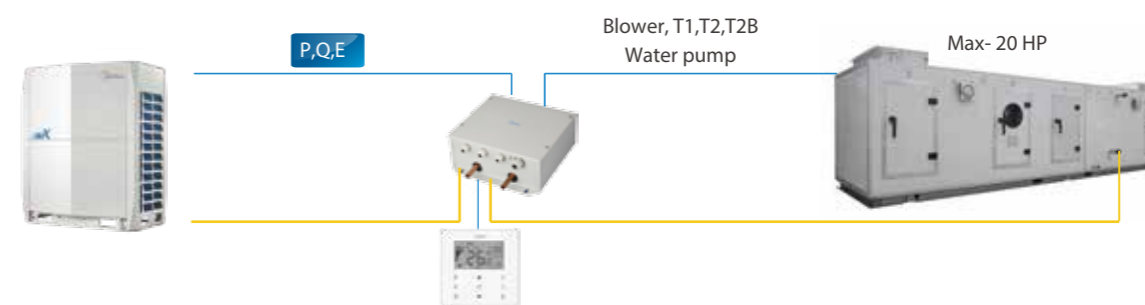
AHUKZ-00D: 2.2~9kW
 AHUKZ-01D: 9~20kW
 AHUKZ-02D: 20~36kW
 AHUKZ-03D: 36~56kW

Compatible with VRF Systems

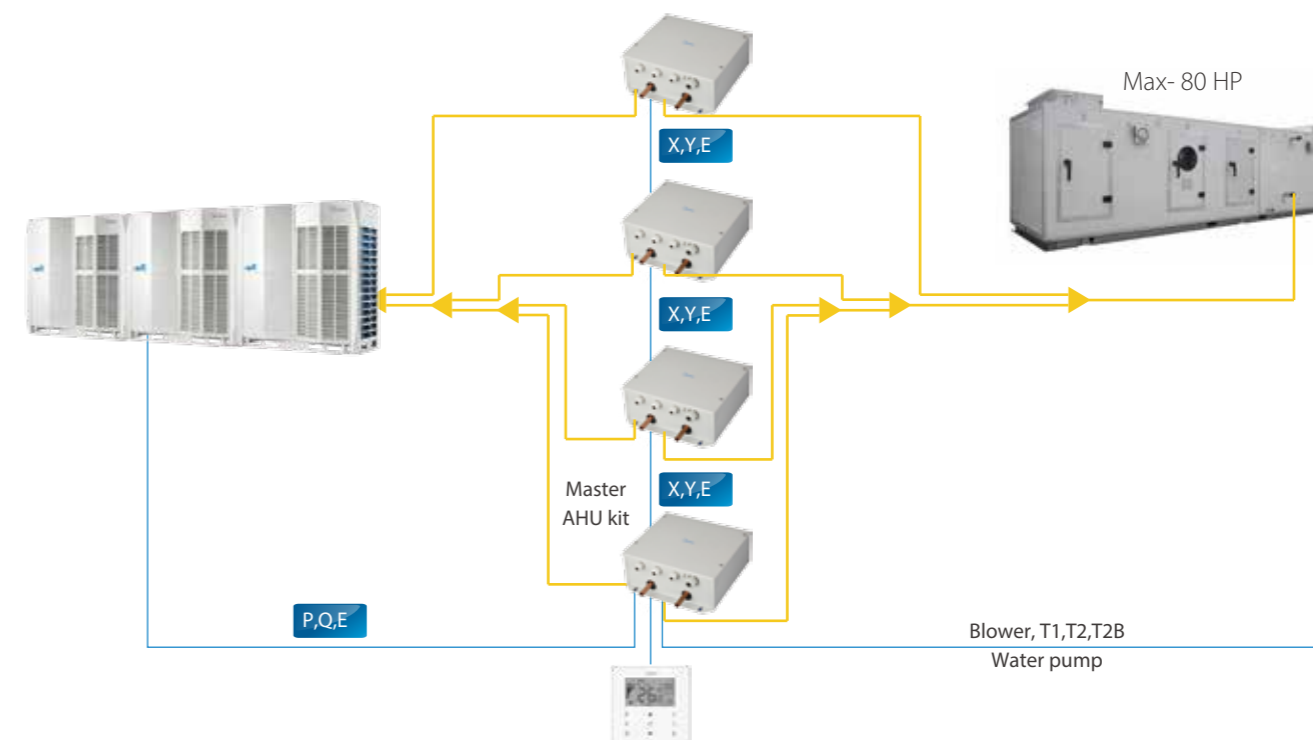
AHU Control Box are compatible with Midea VRF outdoor units and can be used together with all types of Midea VRF indoor units.



Single AHU Control Box Connection



Multi AHU Control Boxes Connection





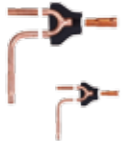
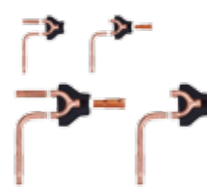
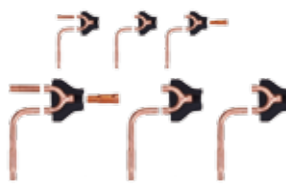
Specifications

Model name	AHUKZ-00D	AHUKZ-01D	AHUKZ-02D	AHUKZ-03D
Capacity A (kW)	2.2≤A<9	9≤A≤20	20<A≤36	36<A≤56
Power supply	220-240V~50/60Hz			
Liquid pipe (in/out) (mm)	Φ9.53/Φ9.53	Φ9.53/Φ9.53	Φ12.7/Φ12.7	Φ15.9/Φ15.9
Dimension (WxHxD) (mm)	341x133x395			
Weight (kg)	5.7	5.7	5.8	6.0
Operation range (cooling on coil) (oC)	17-43			
Operation range (heating on coil) (oC)	10-30			
Applicable outdoor units	Heat pump / heat recovery / cooling only			

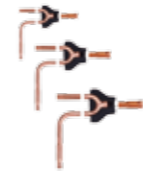
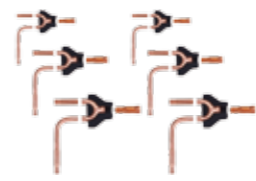
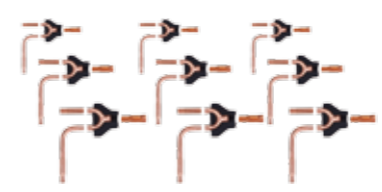

Model name	AHUKZ-00B	AHUKZ-01B	AHUKZ-02B	AHUKZ-03B
Capacity A (kW)	2.2≤ A<9	9≤A≤20	20<A≤36	36<A≤56
Power supply	220-240V~50/60Hz			
Liquid pipe (in/out) (mm)	Φ9.53/Φ9.53	Φ9.53/Φ9.53	Φ12.7/Φ12.7	Φ15.9/Φ15.9
Dimension (WxHxD) (mm)	350x150x375			
Weight (kg)	8.4	8.4	8.7	8.9
Operation range (cooling on coil) (oC)	17-43			
Operation range (heating on coil) (oC)	5-30			
Applicable outdoor units	Heat pump / cooling only			

Branch Joints

For Heat Pump Outdoor Units

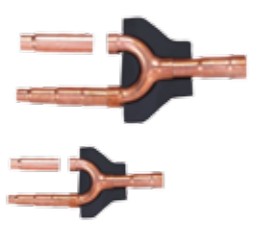
Type	Appearance	Model	PackedDimensions mm	GrossWeight kg	Note
Branch joints for VX & VC Pro VRF		FQZHW-02N1E	255x150x185	2.0	Connecting two outdoor units
		FQZHW-03N1E	345x160x285	4.3	Connecting three outdoor units
Branch joints for V4+W VRF		FQZHW-02N1D	255x150x185	1.5	Connecting two outdoor units
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

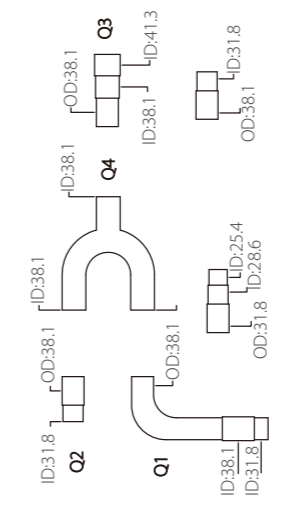
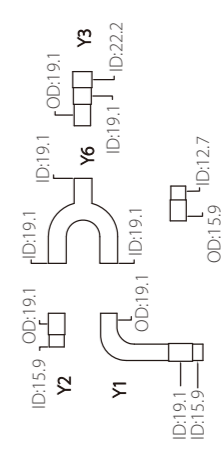
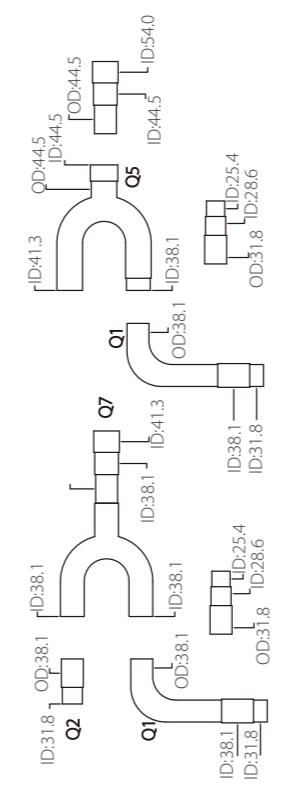
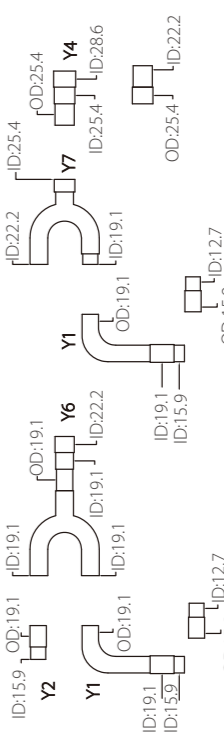
Branch Joints

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-02SB1			
FQZHW-03SB1			

Model	Low-pressure gas side joints	High-pressure gas side joints	Liquid side joints	Converter pipe
FQZHN-01SB1				
FQZHN-02SB1				
FQZHN-03SB1				
FQZHN-04SB1				
FQZHN-05SB1				

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

