1V202110

Midea Building Technologies Division

Midea Group

Add.: Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China

Postal code: 528311

mbt.midea.com www.midea-group.com

Quality Assurance ISO 9001

Environmental Management ISO 14001

Occupational Health and Safety Management ISO 45001

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

Midea

VRF 50/60Hz Catalogue

2022

MAKE A BEAUTIFUL TOMORROW

Midea MBT

Midea MBT(Midea 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 MBT 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 MBT 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.
MBT Shunde: 38 product lines focusing on VRF, Split Products, Heat Pump Water Heaters and AHU/FCU.
MBT Chongqing: 14 product lines focusing on Water Cooled Centrifugal/Screw/Scroll Chillers, Air Cooled Screw/Scroll Chillers and AHU/FCU.
MBT 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.

FORTUNE GLOBAL 500 2021

1999
Entered the building technology field

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

2008-2009
• Developed DC inverter technology with Toshiba
• Launched the DC Inverter V4 globally

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

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

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

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

2016
Acquired 80% stake in Clivet

2017-2018
Launched the new generation heat pump VRF globally, leading in VRF market

2018-2019
Launched the All DC Inverter Cooling Only VC Pro VRF, ultra cool for hot regions

2020-2021
• Launched the new generation heat recovery VRF V6R Series globally, providing complete HVAC solutions and satisfying all building needs from one manufacturer
• Acquired the Chinese national brand Linvol Elevator and entered the elevator industry.

Benefits of Midea VRF

Benefits for End-users

Healthy Operation

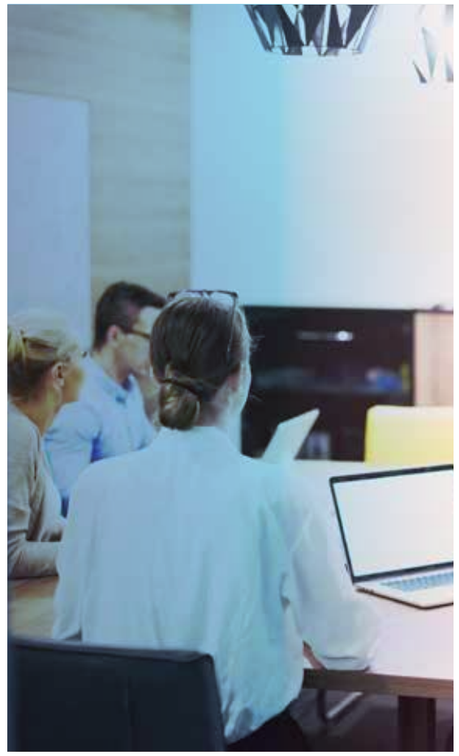
• An outside air intake port in the indoor unit allows outdoor fresh air to be introduced into indoor rooms
• Puro-Air kit, powered by OSRAM's UVC lamps, can effectively kill bacteria, viruses and odors of indoor air to provide a healthy and safe indoor environment
• PCO-kit use magnetic particles coated 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 0.42m^2 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

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.

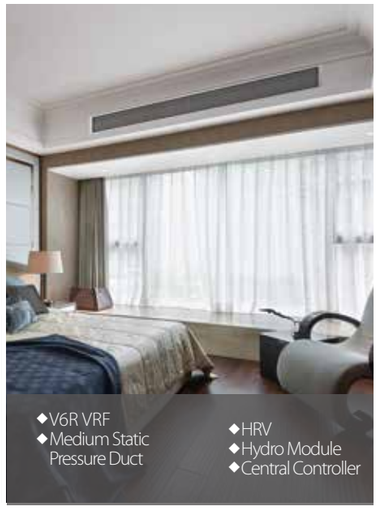
Hotels & Shopping Malls

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

Residential Apartments

One for Every home

Apartments

Villas

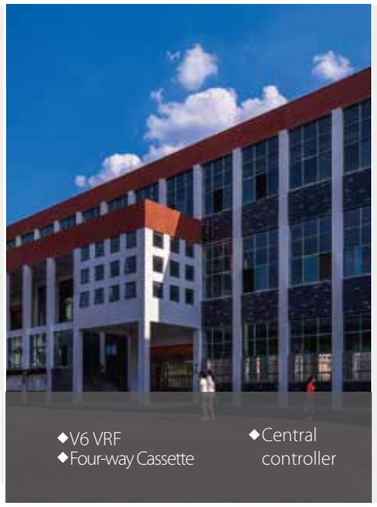
The compact size and high efficiency make Midea VRF suitable for all residential homes.

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.

MBT Learning Academy

Objective

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

Training Centers

Our world class training centers provide knowledge and skills necessary to efficiently deploy MBT 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. MBT Training Center

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

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

Online Trainings: The trainings to the Global customers can also be done online with the help of Team and Midea Meeting software. This way, the customers do not need to be physically present for the training. Amid the COVID-19 pandemic, MBT 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.

Midea Meeting

Products: VRF, M thermal, Chillers and Terminals

Highly Skilled Trainers: The trainers for various courses by MBT 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 MBT products.

Training Certificates:

The attendees for Global trainings are provided a training certificate highlighting the courses discussed in the training, signed by Mr. Henry Cheng, General Manager of MBT 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.

For further enquiries about the Global Trainings conducted by MBT Learning Academy, please send email at the following email address: peeyush@midea.com

VRF V6 Course List

VRF VC PRO Course List

VRF V6R Course List

Engineering Capability
Midea Tool and Support

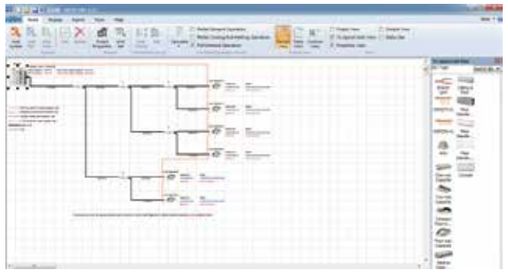
Midea dedicated to provide the best HVAC engineering supportand solutionsfocused oneffectively designed, built,supervised, and maintained throughout the lifecycle, providing our customers a faster,easier, and a more accurate way in everyday duties.

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)



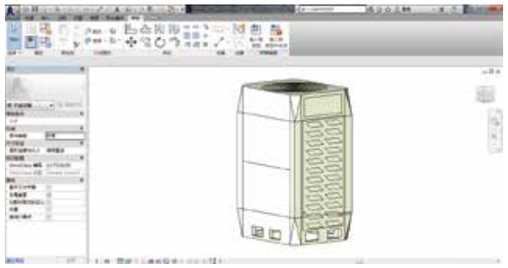
MSSP-CAD Design

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

Note: MSSP (Midea Selection Software Platform)

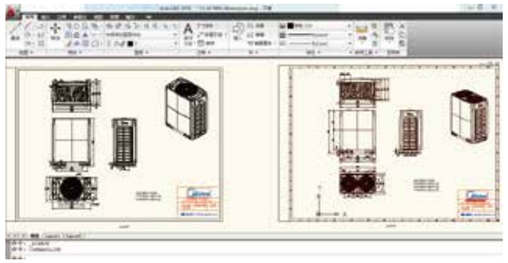
Revit Family

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.

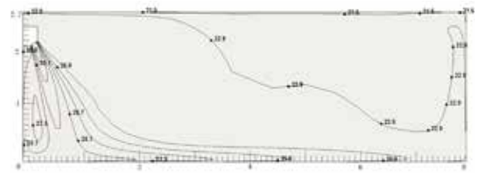


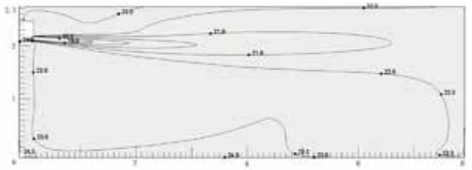
Simulation

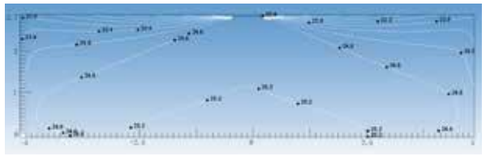
CFD (Computational Fluid Dynamics)

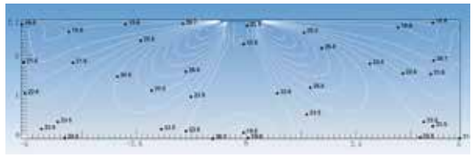
CFD Analysis is applied in areas of estimating: indoor airflow and temperature distribution. By running a simulation before construction, engineers estimate possible issues and find optimal solutions of malfunction that could occur after construction

Temperature distribution

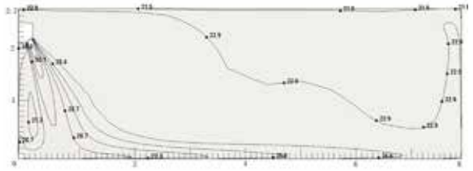


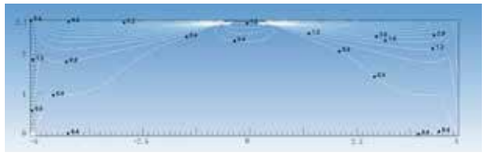


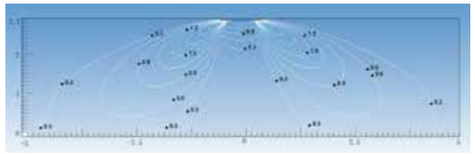




Airflow distribution

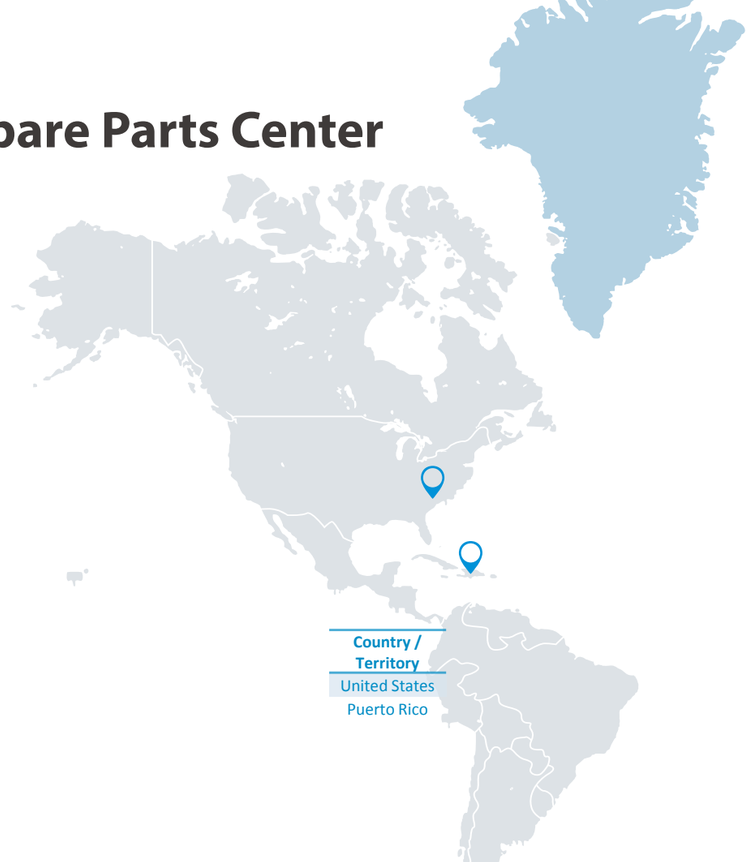






Midea Global Spare Parts Center

The global spare parts 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.



Country / Territory
United States
Puerto Rico

Country
Russia
Germany
Poland
Turkey
Spain
Romania
Georgia
Greece
Italy

Country
China
Vietnam

Country
Saudi Arabia
UAE
Lebanon

Country
India
Bangladesh
Thailand
Malaysia

Country
South Africa

Regional Spare parts center

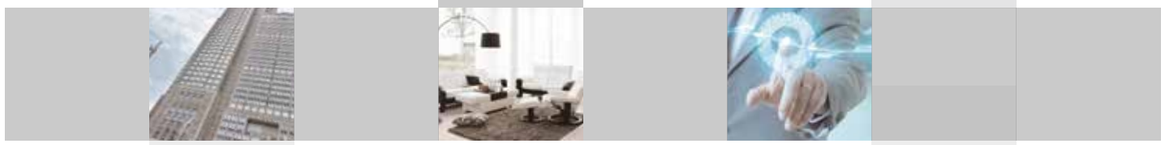
Shared Spare parts inventory

A

B

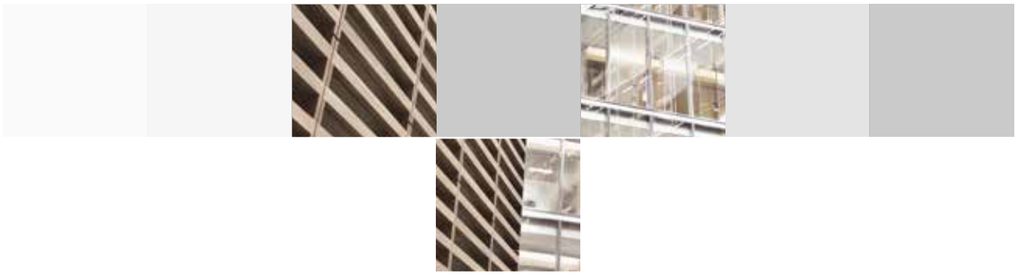
> INDEX

01 OUTDOOR UNITS



02 INDOOR UNITS

03 CONTROL SYSTEMS



04 BRANCH JOINTS

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

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	92-96
Air Cooled - Heat Pump	VRF V6											●		●	●	●	●	●	●	●	●	●	●	●	●					
																	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	VRF V6i - Top Discharge											●		●	●	●	●	●	●	●	●	●	●	●	●					
	VRF V6i - Side Discharge									●		●	●	●	●															
	VRF V4+i - Side Discharge									●		●	●	●	●	●	●													
	Mini VRF - Standard			●	●	●	●	●	●																					
	Mini VRF - Mini C Series			●	●	●	●	●																						
Air Cooled - Heat Recovery	VRF V6R											●		●	●	●	●	●	●											
																	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Air Cooled - Cooling Only	VRF VC Pro											●		●	●	●	●	●	●	●	●	●	●	●						
																	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	VRF VC-i									●		●	●	●																
	Mini VRF - Cooling Only		●	●	●		●	●																						
Water Cooled	VRF V4+W											●		●	●															
																	●	●	●	●	●	●	●	●	●	●	●			

● Single unit ● Combination unit

Outdoor Unit Functions

Outdoor Unit Functions

Functions		Air Cooled - Heat Pump					Air Cooled - Heat Recovery	Air Cooled - Cooling Only			Water Cooled
		VRF V6	VRF V6i-top discharge	VRF V6i-side discharge	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	● (24-32HP)	● (24-32HP)	×	×	×	×	×	● (24-30HP)	×	×	×
	7 levels of energy management	40-100%	40-100%	×	×	×	×	40-100%	40-100%	×	×	×
High Reliability	Duty cycling	●	×	×	×	×	×	●	●	×	×	●
	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	×	×	×	×	×	×	●	×	×	×	×
Enhanced Comfort	Silent mode	Nght silent mode+silent mode+super silent mode	Nght silent mode+silent mode+super silent mode	×	×	×	×	Nght silent mode+silent mode+super silent mode	Nght silent mode+silent mode+super silent mode	×	×	×
	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	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	3 digit 7-segment display
	High external static pressure	120Pa	120Pa	×	×	×	×	80Pa	60Pa	×	×	×

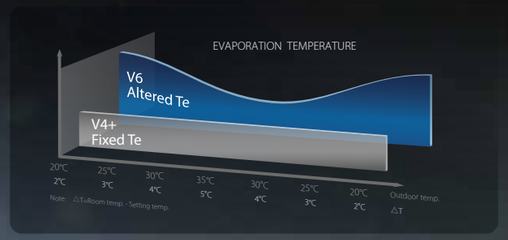
Note:
●: equipped as standard; ○: customization option; ×: without this function

KEY TECHNOLOGIES

META* tech.

* **M**idea **E**vaporative **T**emperature **A**lteration

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**



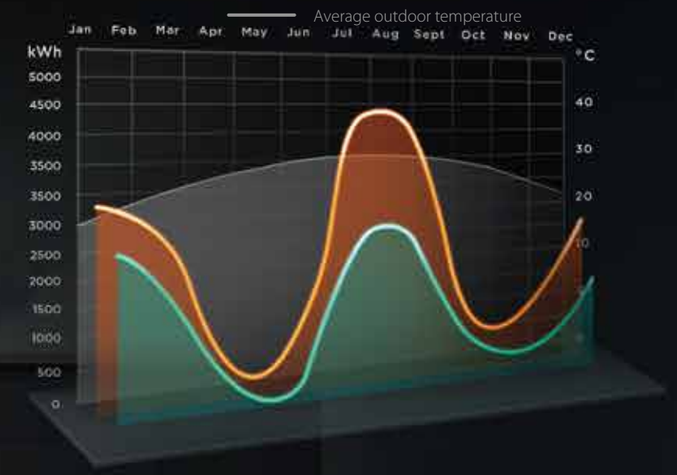
Through the data monitoring of a replacement project in Hangzhou from 2018 to 2019, we obtained the following actual data.

2018-V4+

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

2019-V6(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

ZEN air

DOCTOR m.

MULTI-FUNCTIONAL DIAGNOSIS BOX

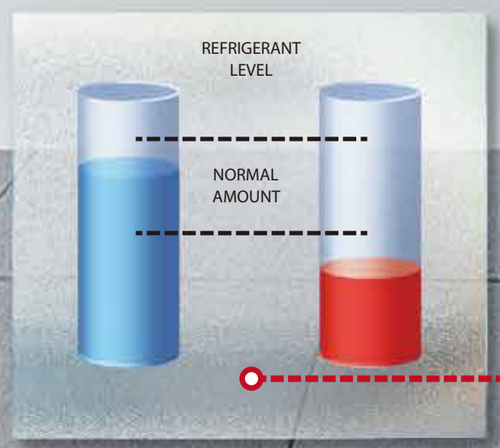
STORE UP TO 30 SETS OF ERROR DATA
SIMPLIFYING MAINTENANCE

DIAGNOSIS DASHBOARD

REAL TIME MONITORING AND
FAST ERROR LOCATING

REFRIGERANT DETECTOR

REAL TIME REFRIGERANT
AMOUNT MONITORING TO
ALARM AND ENSURE
CONSISTENT PERFORMANCE



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.

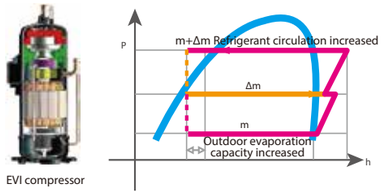
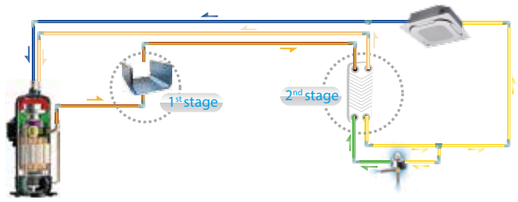


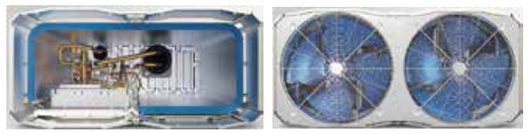
Plate Heat Exchanger (PHE) Subcooling

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



High Efficiency G-Type Heat Exchanger

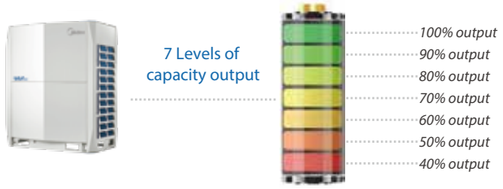
The large capacity units use a high efficiency G-type heat exchanger which heat exchanger area is 1.5 times of the U-type heat exchanger.


3-rows G-type heat exchanger

Super big size fan

7 Levels of Energy Management

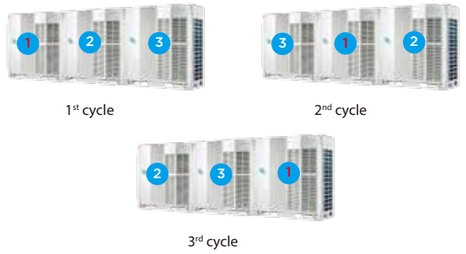
For projects with temporary electricity supply restrictions, the outdoor unit supports 7 levels of energy management which can be set to output 40-100% capacity. It prevents tripping during electricity supply restriction conditions and remains system continue to operate.



HIGH RELIABILITY

Duty Cycling

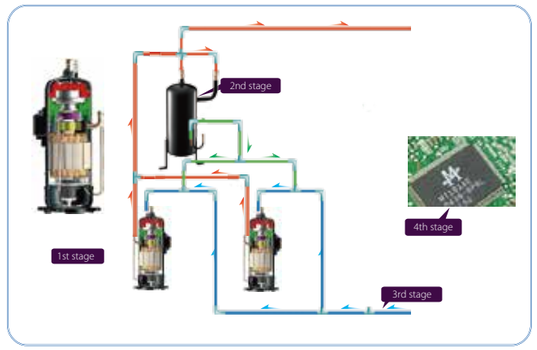
Duty cycling equalizes the running time of the outdoor units in a multiple-unit system and of the compressors in each unit, significantly extending compressor lifespan.



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.



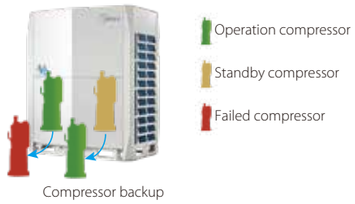
Refrigerant Cooling PCB

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

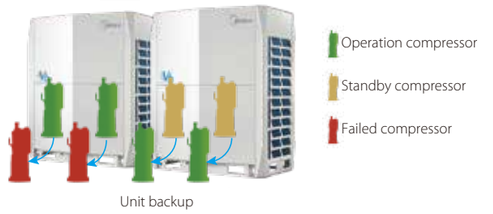
In units with two compressors, if one compressor fails, the other compressor can run on its own for up to 4 days, allowing time for maintenance or repair whilst maintaining comfort.



Compressor backup

Unit backup

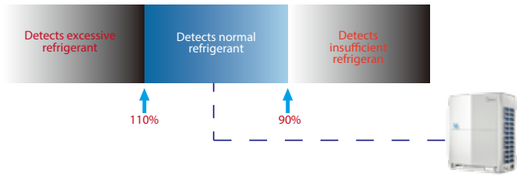
In a multi-unit system, if one module fails, the other modules provide backup so that the system can continue operating.



Unit backup

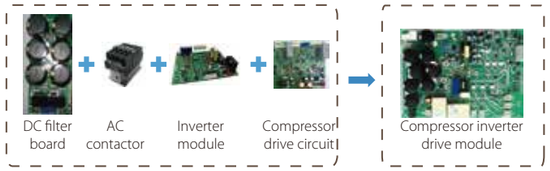
Real-time Refrigerant Amount Monitoring

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.



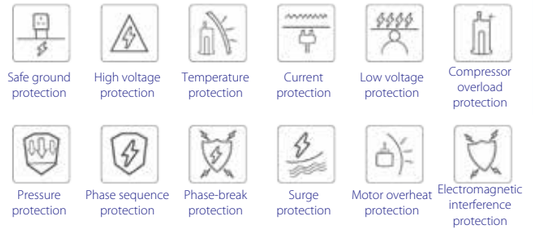
Electrical Components Highly Integrated Design

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.

HALT testing

ESD testing


Surge testing

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.


Self-clean

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

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

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.

WIDE CAPACITY RANGE

Wide Capacity Range

Midea VRF has an extensive capacity ranging from 2.5HP to 96HP, meeting all customer requirements from small to large buildings.

Wide Product Portfolio

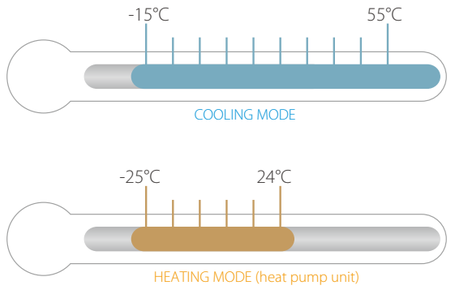
Midea VRF supplies a wide product portfolio including air cooled heat pump VRF, Air cooled heat recovery VRF, air cooled cooling only VRF and water cooled VRF to meet the needs of various application scenarios in the market.

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.

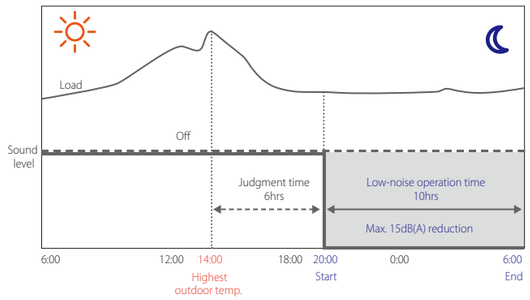
ENHANCED COMFORT

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.

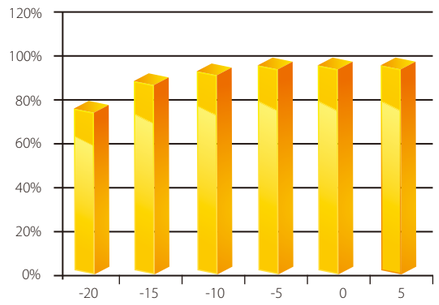
- In night silent mode and silent mode, only maximum fan speed is limited to meet the normal silent requirement.
- In super silent mode, both maximum fan speed and compressor frequency are limited to meet higher silent requirement.

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.



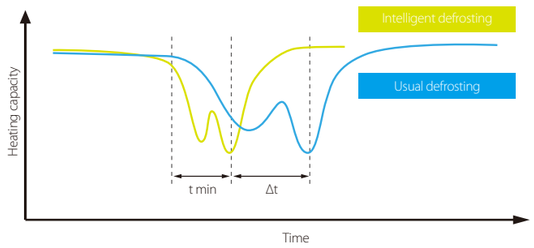
Enhanced Heating Capacity

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℃ and 90% of rated capacity at -15℃.



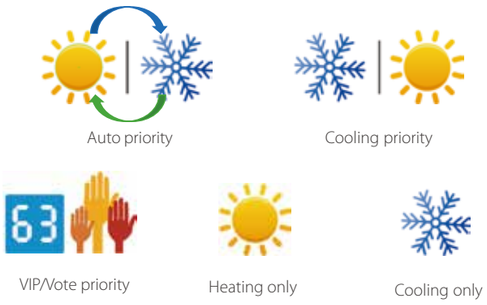
Intelligent Defrosting Technology

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 at four minutes.



Multiple Priority Modes

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



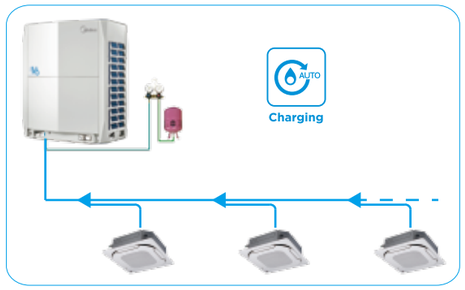
EASY INSTALLATION AND SERVICE

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.

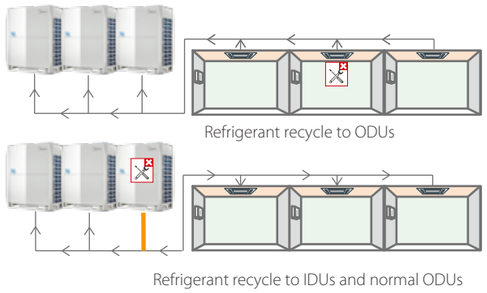
Automatic Refrigerant Charging

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.



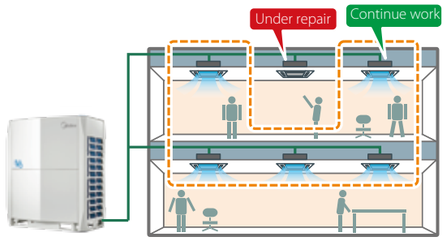
Multi-Functional Diagnosis Box

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.

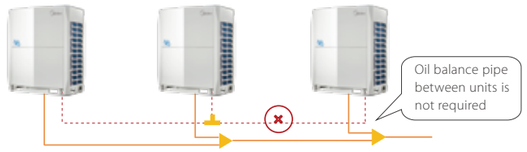
Maintenance Mode

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.

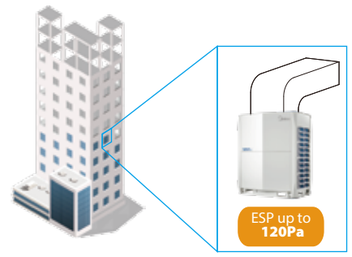
- Field local configuration achieves quick and easy on-site settings, simplifies installation and commissioning.
- System checking and settings also can be easily achieved via wired and centralized controller, making the configuration more flexible and convenient.
- A desktop or laptop PC can be used 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 V6 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 96HP, which is the world's largest single-system VRF capacity.

8/10/12HP
(with single fan)

14/16HP
(with single fan)

18/20/22HP
(with dual fans)

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

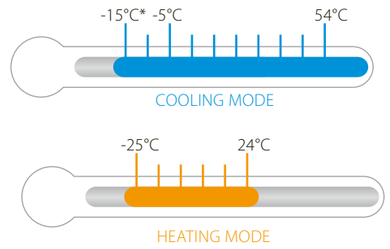
16-64HP

24-96HP

Wide Operating Temperature Range

The V6 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.

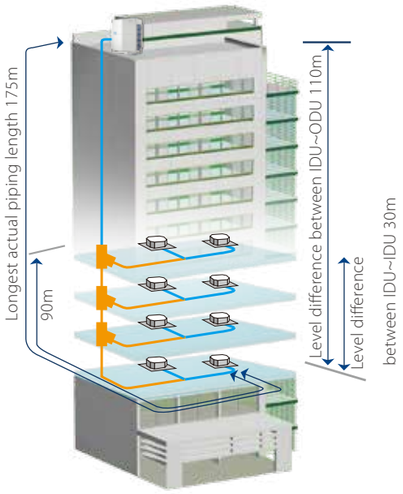
* Cooling operation at -15°C is available as a customization option.



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 V6 Series - Heat Pump

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

Capacity		HP	8	10	12	14
Model			MV6-252WV2GN1	MV6-280WV2GN1	MV6-335WV2GN1	MV6-400WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	5.3	6.3	8.7	9.9
	EER	kW/kW	4.75	4.45	3.85	4.05
Heating[2] (Nominal)	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	4.6	5.2	6.6	8.5
	COP	kW/kW	5.50	5.40	5.10	4.70
Heating[2] (Max)	Capacity	kW	27.0	31.5	37.5	45.0
		kBtu/h	92.1	107.5	128.0	153.5
	Power input	kW	5.16	6.10	7.88	10.27
	COP	kW/kW	5.23	5.16	4.76	4.38
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		13	16	20	23
Compressors	Type		DC inverter			
	Quantity		1			
Fan motors	Type		DC			
	Quantity		1			
	Max. ESP	Pa	20 default; up to 80 customization option			20 default; up to 120 customization option
Refrigerant	Type		R410A			
	Factory charge	kg	11			13
Pipe connections[3]	Liquid pipe	mm	Φ12.7		Φ15.9	Φ15.9
	Gas pipe	mm	Φ25.4		Φ28.6	Φ31.8
Airflow rate		m^3/h	11000			13000
Sound pressure level[4]		dB(A)	58		60	
Net dimensions (WxHxD)		mm	990×1635×790			1340×1635×850
Packed dimensions (WxHxD)		mm	1090×1805×860			1405×1805×910
Net weight		kg	227			277
Gross weight		kg	242			304
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

Capacity		HP	16	18	20	22
Model			MV6-450WV2GN1	MV6-500WV2GN1	MV6-560WV2GN1	MV6-615WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	12.0	12.5	15.1	18.4
	EER	kW/kW	3.75	4.00	3.70	3.35
Heating[2] (Nominal)	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	9.8	10.6	12.7	15.0
	COP	kW/kW	4.60	4.70	4.40	4.10
Heating[2] (Max)	Capacity	kW	50.0	56.0	63.0	69.0
		kBtu/h	170.6	191.1	215.0	235.4
	Power input	kW	11.76	12.84	15.29	17.78
	COP	kW/kW	4.25	4.36	4.12	3.88
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		26	29	33	36
Compressors	Type		DC inverter			
	Quantity		1	2		
Fan motors	Type		DC			
	Quantity		1	2		
	Max. ESP	Pa	20 default; up to 120 customization option			
Refrigerant	Type		R410A			
	Factory charge	kg	13	17		
Pipe connections[3]	Liquid pipe	mm	Φ15.9	Φ19.1		
	Gas pipe	mm	Φ31.8	Φ31.8		
Airflow rate		m^3/h	13000	17000		
Sound pressure level[4]		dB(A)	61	62	63	
Net dimensions (WxHxD)		mm	1340×1635×850	1340×1635×825		
Packed dimensions (WxHxD)		mm	1405×1805×910			
Net weight		kg	277	348		
Gross weight		kg	304	368		
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

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

VRF V6 Series - Heat Pump

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

Capacity		HP	24	26	28
Model			MV6-670WV2GN1	MV6-730WV2GN1	MV6-785WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	67.0	73.0	78.5
		kBtu/h	228.6	249.1	267.8
	Power input	kW	18.1	20.9	24.2
	EER	kW/kW	3.70	3.49	3.25
Heating[2] (Nominal)	Capacity	kW	67.0	73.0	78.5
		kBtu/h	228.6	249.1	267.8
	Power input	kW	14.9	17.6	20.7
	COP	kW/kW	4.50	4.15	3.80
Heating[2] (Max)	Capacity	kW	75.0	81.5	87.5
		kBtu/h	255.9	278.1	298.6
	Power input	kW	18.07	21.01	24.44
	COP	kW/kW	4.15	3.88	3.58
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity		
	Max. quantity		39	43	46
Compressors	Type		DC inverter		
	Quantity		2		
Fan motors	Type		DC		
	Quantity		2		
	Max. ESP	Pa	20 default; up to 120 customization option		
Refrigerant	Type		R410A		
	Factory charge	kg	22		
Pipe connections[3]	Liquid pipe	mm	Φ19.1	Φ22.2	
	Gas pipe	mm	Φ31.8	Φ31.8	
Airflow rate		m^3/h	25000		
Sound pressure level[4]		dB(A)	64		
Net dimensions (WxHxD)		mm	1730 × 1830 × 850		
Packed dimensions (WxHxD)		mm	1800×2000×910		
Net weight		kg	430		
Gross weight		kg	453		
Operating temperature range	Cooling	°C	-5 to 54		
	Heating	°C	-25 to 24		

Capacity		HP	30	32
Model			MV6-850WV2GN1	MV6-900WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)	
Cooling[1]	Capacity	kW	85.0	90.0
		kBtu/h	290.0	307.1
	Power input	kW	27.4	31.0
	EER	kW/kW	3.10	2.90
Heating[2] (Nominal)	Capacity	kW	85.0	90.0
		kBtu/h	290.0	307.1
	Power input	kW	23.0	25.7
	COP	kW/kW	3.70	3.50
Heating[2] (Max)	Capacity	kW	95.0	100.0
		kBtu/h	324.1	341.2
	Power input	kW	27.78	30.67
	COP	kW/kW	3.42	3.26
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity	
	Max. quantity		50	53
Compressors	Type		DC inverter	
	Quantity		2	
Fan motors	Type		DC	
	Quantity		2	
	Max. ESP	Pa	20 default; up to 120 customization option	
Refrigerant	Type		R410A	
	Factory charge	kg	25	
Pipe connections[3]	Liquid pipe	mm	Φ22.2	
	Gas pipe	mm	Φ38.1	
Airflow rate		m^3/h	24000	
Sound pressure level[4]		dB(A)	64	
Net dimensions (WxHxD)		mm	1730 × 1830 × 850	
Packed dimensions (WxHxD)		mm	1800×2000×910	
Net weight		kg	475	
Gross weight		kg	507	
Operating temperature range	Cooling	°C	-5 to 54	
	Heating	°C	-25 to 24	

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

Outdoor Units

VRF V6 Series - Heat Pump

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

Capacity		HP	34	36	38	40
Model			MV6-950WV2GN1	MV6-1015WV2GN1	MV6-1065WV2GN1	MV6-1120WV2GN1
Combination type			12HP+22HP	14HP+22HP	16HP+22HP	12HP+28HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	95.0	101.5	106.5	112.0
		kBtu/h	324.1	346.3	363.4	382.1
	Power input	kW	27.1	28.2	30.4	32.9
	EER	kW/kW	3.51	3.59	3.51	3.41
Heating[2] (Nominal)	Capacity	kW	95.0	101.5	106.5	112.0
		kBtu/h	324.1	346.3	363.4	382.1
	Power input	kW	21.6	23.5	24.8	27.2
	COP	kW/kW	4.40	4.32	4.30	4.11
Heating[2] (Max)	Capacity	kW	106.5	114.0	119.0	125.0
		kBtu/h	363.4	389.0	406.0	426.5
	Power input	kW	25.66	28.06	29.55	32.32
	COP	kW/kW	4.15	4.06	4.03	3.87
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		56	59	63	64
Compressors	Type		DC inverter			
	Quantity		3			
Fan motors	Type		DC			
	Quantity		3			
	Max. ESP	Pa	20 default; up to 120 customization option			
Refrigerant	Type		R410A			
	Factory charge	kg	11+17	13+17		11+22
Pipe connections[3]	Liquid pipe	mm	Φ19.1	Φ19.1		
	Gas pipe	mm	Φ31.8	Φ38.1		
Airflow rate		m^3/h	28000	30000		36000
Sound pressure level[4]		dB(A)	65			
Net dimensions (WxHxD)		mm	(990×1635×790)+(1340×1635×825)	(1340×1635×850)+(1340×1635×825)		(990×1635×790)+(1730×1830×850)
Packed dimensions (WxHxD)		mm	(1090×1805×860)+(1405×1805×910)	(1405×1805×910)×2		(1090×1805×860)+(1800×2000×910)
Net weight		kg	227+348	277+348		227+430
Gross weight		kg	242+368	304+368		242+453
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

Capacity		HP	42	44	46	48
Model			MV6-1175WV2GN1	MV6-1230WV2GN1	MV6-1285WV2GN1	MV6-1345WV2GN1
Combination type			20HP+22HP	22HP+22HP	22HP+24HP	22HP+26HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	117.5	123.0	128.5	134.5
		kBtu/h	400.9	419.7	438.4	458.9
	Power input	kW	33.5	36.7	36.5	39.3
	EER	kW/kW	3.51	3.35	3.52	3.43
Heating[2] (Nominal)	Capacity	kW	117.5	123.0	128.5	134.5
		kBtu/h	400.9	419.7	438.4	458.9
	Power input	kW	27.7	30.0	29.9	32.6
	COP	kW/kW	4.24	4.10	4.30	4.13
Heating[2] (Max)	Capacity	kW	132.0	138.0	144.0	150.5
		kBtu/h	450.4	470.9	491.3	513.5
	Power input	kW	33.07	35.57	35.86	38.79
	COP	kW/kW	3.99	3.88	4.02	3.88
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		64			
Compressors	Type		DC inverter			
	Quantity		4			
Fan motors	Type		DC			
	Quantity		4			
	Max. ESP	Pa	20 default; up to 120 customization option			
Refrigerant	Type		R410A			
	Factory charge	kg	17×2		17+22	
Pipe connections[3]	Liquid pipe	mm	Φ19.1			
	Gas pipe	mm	Φ38.1			
Airflow rate		m^3/h	34000		42000	
Sound pressure level[4]		dB(A)	66			
Net dimensions (WxHxD)		mm	(1340×1635×825)×2		(1340×1635×825)+(1730×1830×850)	
Packed dimensions (WxHxD)		mm	(1405×1805×910)×2		(1405×1805×910)+(1800×2000×910)	
Net weight		kg	348×2		348+430	
Gross weight		kg	368×2		368+453	
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

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

VRF V6 Series - Heat Pump

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

Capacity		HP	50	52	54	56
Model			MV6-1400WV2GN1	MV6-1460WV2GN1	MV6-1515WV2GN1	MV6-1570WV2GN1
Combination type			22HP+28HP	26HP+26HP	26HP+28HP	28HP+28HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	140.0	146.0	151.5	157.0
		kBtu/h	477.7	498.2	516.9	535.7
	Power input	kW	42.5	41.8	45.1	48.3
	EER	kW/kW	3.29	3.49	3.36	3.25
Heating[2] (Nominal)	Capacity	kW	140.0	146.0	151.5	157.0
		kBtu/h	477.7	498.2	516.9	535.7
	Power input	kW	35.7	35.2	38.3	41.3
	COP	kW/kW	3.93	4.15	3.96	3.80
Heating[2] (Max)	Capacity	kW	156.0	163.0	169.0	175.0
		kBtu/h	534.0	556.2	576.6	597.1
	Power input	kW	42.22	42.01	45.45	48.88
	COP	kW/kW	3.71	3.88	3.72	3.58
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		64			
Compressors	Type		DC inverter			
	Quantity		4			
Fan motors	Type		DC			
	Quantity		4			
	Max. ESP	Pa	20 default; up to 120 customization option			
Refrigerant	Type		R410A			
	Factory charge	kg	17+22	22×2		
Pipe connections[3]	Liquid pipe	mm	Φ19.1			Φ19.1
	Gas pipe	mm	Φ38.1			Φ41.3
Airflow rate		m^3/h	42000	50000		
Sound pressure level[4]		dB(A)	66			
Net dimensions (WxHxD)		mm	(1340×1635×825)+(1730×1830×850)	(1730×1830×850)×2		
Packed dimensions (WxHxD)		mm	(1405×1805×910)+(1800×2000×910)	(1800×2000×910)×2		
Net weight		kg	348+430	430×2		
Gross weight		kg	368+453	453×2		
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

Capacity		HP	58	60	62	64
Model			MV6-1635WV2GN1	MV6-1685WV2GN1	MV6-1750WV2GN1	MV6-1800WV2GN1
Combination type			28HP+30HP	28HP+32HP	30HP+32HP	32HP+32HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	163.5	168.5	175.0	180.0
		kBtu/h	557.9	574.9	597.1	614.2
	Power input	kW	51.6	55.2	58.5	62.1
	EER	kW/kW	3.17	3.05	2.99	2.90
Heating[2] (Nominal)	Capacity	kW	163.5	168.5	175.0	180.0
		kBtu/h	557.9	574.9	597.1	614.2
	Power input	kW	43.6	46.4	48.7	51.4
	COP	kW/kW	3.75	3.63	3.59	3.50
Heating[2] (Max)	Capacity	kW	182.5	187.5	195.0	200.0
		kBtu/h	622.7	639.8	665.3	682.4
	Power input	kW	52.22	55.12	58.45	61.35
	COP	kW/kW	3.49	3.40	3.34	3.26
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		64			
Compressors	Type		DC inverter			
	Quantity		4			
Fan motors	Type		DC			
	Quantity		4			
	Max. ESP	Pa	20 default; up to 120 customization option			
Refrigerant	Type		R410A			
	Factory charge	kg	22+25		25×2	
Pipe connections[3]	Liquid pipe	mm	Φ19.1			
	Gas pipe	mm	Φ41.3			
Airflow rate		m^3/h	49000		48000	
Sound pressure level[4]		dB(A)	66			
Net dimensions (WxHxD)		mm	(1730×1830×850)×2			
Packed dimensions (WxHxD)		mm	(1800×2000×910)×2			
Net weight		kg	430+475		475×2	
Gross weight		kg	453+507		507×2	
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

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

VRF V6 Series - Heat Pump

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

Capacity		HP	66	68	70	72
Model			MV6-1850WV2GN1	MV6-1915WV2GN1	MV6-1965WV2GN1	MV6-2020WV2GN1
Combination type			12HP+22HP+32HP	14HP+22HP+32HP	16HP+22HP+32HP	12HP+28HP+32HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	185.0	191.5	196.5	202.0
		kBtu/h	631.2	653.4	670.5	689.2
	Power input	kW	58.1	59.3	61.4	63.9
	EER	kW/kW	3.18	3.23	3.20	3.16
Heating[2] (Nominal)	Capacity	kW	185.0	191.5	196.5	202.0
		kBtu/h	631.2	653.4	670.5	689.2
	Power input	kW	47.3	49.2	50.5	52.9
	COP	kW/kW	3.91	3.89	3.89	3.82
Heating[2] (Max)	Capacity	kW	206.5	214.0	219.0	225.0
		kBtu/h	704.6	730.2	747.2	767.7
	Power input	kW	56.34	58.73	60.22	62.99
	COP	kW/kW	3.67	3.64	3.64	3.57
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		64			
Compressors	Type		DC inverter			
	Quantity		5			
Fan motors	Type		DC			
	Quantity		5			
	Max. ESP	Pa	20 default; up to 120 customization option			
Refrigerant	Type		R410A			
	Factory charge	kg	11+17+25	13+17+25		11+22+25
Pipe connections[3]	Liquid pipe	mm	Φ19.1	Φ22.2		
	Gas pipe	mm	Φ41.3	Φ44.5		
Airflow rate		m^3/h	52000	54000		60000
Sound pressure level[4]		dB(A)	67			
Net dimensions (WxHxD)		mm	(990×1635×790)+(1340×1635×825)+(1730×1830×850)	(1340×1635×850)+(1340×1635×825)+(1730×1830×850)		(990×1635×790)+(1730×1830×850)×2
Packed dimensions (WxHxD)		mm	(1090×1805×860)+(1405×1805×910)+(1800×2000×910)	(1405×1805×910)×2+(1800×2000×910)		(1090×1805×860)+(1800×2000×910)×2
Net weight		kg	227+348+475	277+348+475		227+430+475
Gross weight		kg	242+368+507	304+368+507		242+453+507
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

Capacity		HP	74	76	78	80
Model			MV6-2075WV2GN1	MV6-2130WV2GN1	MV6-2185WV2GN1	MV6-2245WV2GN1
Combination type			20HP+22HP+32HP	22HP+22HP+32HP	22HP+24HP+32HP	22HP+26HP+32HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	207.5	213.0	218.5	224.5
		kBtu/h	708.0	726.8	745.5	766.0
	Power input	kW	64.5	67.8	67.5	70.3
	EER	kW/kW	3.22	3.14	3.24	3.19
Heating[2] (Nominal)	Capacity	kW	207.5	213.0	218.5	224.5
		kBtu/h	708.0	726.8	745.5	766.0
	Power input	kW	53.4	55.7	55.6	58.3
	COP	kW/kW	3.88	3.82	3.93	3.85
Heating[2] (Max)	Capacity	kW	232.0	238.0	244.0	250.5
		kBtu/h	791.6	812.1	832.5	854.7
	Power input	kW	63.75	66.24	66.53	69.46
	COP	kW/kW	3.64	3.59	3.67	3.61
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		64			
Compressors	Type		DC inverter			
	Quantity		6			
Fan motors	Type		DC			
	Quantity		6			
	Max. ESP	Pa	20 default; up to 120 customization option			
Refrigerant	Type		R410A			
	Factory charge	kg	17×2+25		17+22+25	
Pipe connections[3]	Liquid pipe	mm	Φ22.2			
	Gas pipe	mm	Φ44.5			
Airflow rate		m^3/h	58000		66000	
Sound pressure level[4]		dB(A)	68			
Net dimensions (WxHxD)		mm	(1340×1635×825)×2+(1730×1830×850)		(1340×1635×825)+(1730×1830×850)×2	
Packed dimensions (WxHxD)		mm	(1405×1805×910)×2+(1800×2000×910)		(1405×1805×910)+(1800×2000×910)×2	
Net weight		kg	348×2+475		348+430+475	
Gross weight		kg	368×2+507		368+453+507	
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

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

VRF V6 Series - Heat Pump

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

Capacity		HP	82	84	86	88
Model			MV6-2300WV2GN1	MV6-2360WV2GN1	MV6-2415WV2GN1	MV6-2470WV2GN1
Combination type			22HP+28HP+32HP	26HP+26HP+32HP	26HP+28HP+32HP	28HP+28HP+32HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	230.0	236.0	241.5	247.0
		kBtu/h	784.8	805.2	824.0	842.8
	Power input	kW	73.5	72.8	76.1	79.3
	EER	kW/kW	3.13	3.24	3.17	3.11
Heating[2] (Nominal)	Capacity	kW	230.0	236.0	241.5	247.0
		kBtu/h	784.8	805.2	824.0	842.8
	Power input	kW	61.4	60.9	64.0	67.0
	COP	kW/kW	3.75	3.87	3.78	3.68
Heating[2] (Max)	Capacity	kW	256.5	263.0	269.0	275.0
		kBtu/h	875.2	897.4	917.8	938.3
	Power input	kW	72.90	72.69	76.12	79.56
	COP	kW/kW	3.52	3.62	3.53	3.46
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		64			
Compressors	Type		DC inverter			
	Quantity		6			
Fan motors	Type		DC			
	Quantity		6			
	Max. ESP	Pa	20 default; up to 120 customization option			
Refrigerant	Type		R410A			
	Factory charge	kg	17+22+25	22×2+25		
Pipe connections[3]	Liquid pipe	mm	Φ22.2	Φ25.4		
	Gas pipe	mm	Φ44.5	Φ50.8		
Airflow rate		m^3/h	66000	74000		
Sound pressure level[4]		dB(A)	68			
Net dimensions (WxHxD)		mm	(1340×1635×825)+(1730×1830×850)×2	(1730×1830×850)×3		
Packed dimensions (WxHxD)		mm	(1405×1805×910)+(1800×2000×910)×2	(1800×2000×910)×3		
Net weight		kg	348+430+475	430×2+475		
Gross weight		kg	368+453+507	453×2+507		
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

Capacity		HP	90	92	94	96
Model			MV6-2535WV2GN1	MV6-2585WV2GN1	MV6-2650WV2GN1	MV6-2700WV2GN1
Combination type			28HP+30HP+32HP	28HP+32HP+32HP	30HP+32HP+32HP	32HP+32HP+32HP
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	253.5	258.5	265.0	270.0
		kBtu/h	864.9	882.0	904.2	921.2
	Power input	kW	82.6	86.2	89.5	93.1
	EER	kW/kW	3.07	3.00	2.96	2.90
Heating[2] (Nominal)	Capacity	kW	253.5	258.5	265.0	270.0
		kBtu/h	864.9	882.0	904.2	921.2
	Power input	kW	69.3	72.1	74.4	77.1
	COP	kW/kW	3.66	3.59	3.56	3.50
Heating[2] (Max)	Capacity	kW	282.5	287.5	295.0	300.0
		kBtu/h	963.9	981.0	1006.5	1023.6
	Power input	kW	82.89	85.79	89.13	92.02
	COP	kW/kW	3.41	3.35	3.31	3.26
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		64			
Compressors	Type		DC inverter			
	Quantity		6			
Fan motors	Type		DC			
	Quantity		6			
	Max. ESP	Pa	20 default; up to 120 customization option			
Refrigerant	Type		R410A			
	Factory charge	kg	22+25×2		25+25×2	
Pipe connections[3]	Liquid pipe	mm	Φ25.4			
	Gas pipe	mm	Φ50.8			
Airflow rate		m^3/h	73000		72000	
Sound pressure level[4]		dB(A)	68			
Net dimensions (WxHxD)		mm	(1730×1830×850)×3			
Packed dimensions (WxHxD)		mm	(1800×2000×910)×3			
Net weight		kg	430+475×2		475×3	
Gross weight		kg	453+507×2		507×3	
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

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

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 V6-i Series Heat Pump

Optimized design for middle-sized buildings

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

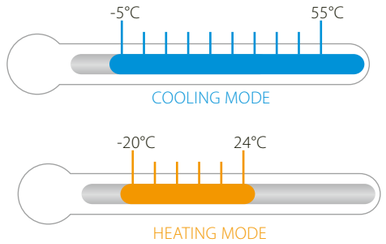
Wide Capacity Range

V6-i VRF has two options, side-discharge and top-discharge. For side-discharge type, it has four models, 7/8/9/10/12HP. For top-discharge type, the capacity is from 8HP to 32HP in 2HP increments.

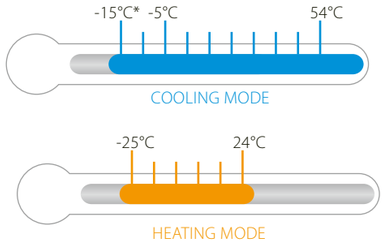
Side-discharge type	Top-discharge type			
7/8/9/10/12HP	8/10/12HP (with single fan)	14/16/18HP (with single fan)	20/22HP (with dual fans)	24/26/28/30/32HP (with dual fans)
				

Wide Operation Range

The V6-i VRF can operate stably in a wide ambient temperature range.



Side-discharge type



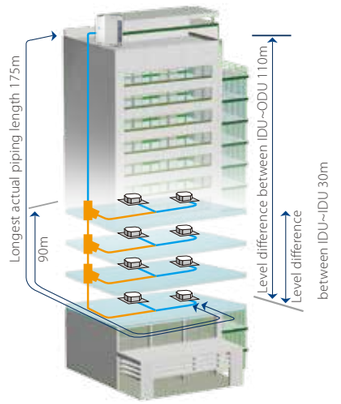
Top-discharge type

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

Long Piping Capability

Piping length	Capability (m)	
	Top-discharge	Side-discharge
Total piping length	1000	150
Longest piping length-actual (equivalent)	175 (200)	100 (110)
Longest piping length after first branch	40/90*	40
Largest level difference between IDUs and ODU-ODU up (down)	90 (110)	50 (40)
Largest level difference between IDUs	30	15

*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 V6-i Series - Heat Pump (Top-discharge type)

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

Capacity		HP	8	10	12	14	16	18
Model			MV6-i252WV2GN1	MV6-i280WV2GN1	MV6-i335WV2GN1	MV6-i400WV2GN1	MV6-i450WV2GN1	MV6-i500WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)					
Cooling[1]	Capacity	kW	25.2	28	33.5	40	45	50
		kBtu/h	86	95.5	114.3	136.5	153.5	170.6
	Power input	kW	5.5	6.7	8.9	11	12.9	14.7
	EER		4.55	4.2	3.75	3.65	3.5	3.4
Heating[2] (Nominal)	Capacity	kW	25.2	28	33.5	40	45	50
		kBtu/h	86	95.5	114.3	136.5	153.5	170.6
	Power input	kW	4.8	5.5	7.6	9.3	10.7	12.2
	COP		5.2	5.1	4.4	4.3	4.2	4.1
Heating[2] (Max)	Capacity	kW	27.0	31.5	37.5	45.0	50.0	56.0
		kBtu/h	92.1	107.5	128.0	153.5	170.6	191.1
	Power input	kW	5.42	6.57	9.13	11.23	12.89	14.72
	COP		4.98	4.79	4.11	4.01	3.88	3.80
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity					
	Maximum quantity		13	16	20	23	26	29
Compressors	Type		DC inverter					
	Quantity		1					
Fan motors	Type		DC					
	Quantity		1					
	Max. ESP	Pa	20 Default; up to 80 customization option			20 Default; up to 120 customization option		
Refrigerant	Type		R410A					
	Factory charge	kg	11			13		
Pipe connections[3]	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ19.1
	Gas pipe	mm	Φ25.4	Φ25.4	Φ28.6	Φ31.8	Φ31.8	Φ31.8
Airflow rate		m^3/h	11000			13000		
Sound pressure level[4]		dB(A)	58	58	60	60	61	62
Net dimensions (W×H×D)		mm	990×1635×790			1340×1635×850		
Packed dimensions (W×H×D)		mm	1090×1805×860			1405×1805×910		
Net weight		kg	227			277		295
Gross weight		kg	242			304		322
Operating temperature range	Cooling	°C	-5 to 54					
	Heating	°C	-25 to 24					

Capacity		HP	20	22
Model			MV6-i560WV2GN1	MV6-i615WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)	
Cooling[1]	Capacity	kW	56	61.5
		kBtu/h	191.1	209.8
	Power input	kW	16	20.2
	EER		3.5	3.05
Heating[2] (Nominal)	Capacity	kW	56	61.5
		kBtu/h	191.1	209.8
	Power input	kW	13.8	17.6
	COP		4.05	3.5
Heating[2] (Max)	Capacity	kW	63.0	69.0
		kBtu/h	215.0	235.4
	Power input	kW	16.61	20.83
	COP		3.79	3.31
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	
	Maximum quantity		33	36
Compressors	Type		DC inverter	
	Quantity		2	
Fan motors	Type		DC	
	Quantity		2	
	Max. ESP	Pa	20 Default; up to 120 customization option	
Refrigerant	Type		R410A	
	Factory charge	kg	17	
Pipe connections[3]	Liquid pipe	mm	Φ19.1	
	Gas pipe	mm	Φ31.8	
Airflow rate		m^3/h	17000	
Sound pressure level[4]		dB(A)	63	
Net dimensions (W×H×D)		mm	1340×1635×825	
Packed dimensions (W×H×D)		mm	1405×1805×910	
Net weight		kg	344	
Gross weight		kg	364	
Operating temperature range	Cooling	°C	-5 to 54	
	Heating	°C	-25 to 24	

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

Capacity		HP	24	26	28	30	32
Model			MV6-I670WV2GN1	MV6-i730WV2GN1	MV6-i785WV2GN1	MV6-i850WV2GN1	MV6-i900WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)				
Cooling[1]	Capacity	kW	67	73	78.5	85	90
		kBtu/h	228.6	249.1	267.8	290	307.1
	Power input	kW	21.6	21.6	24.9	28.3	32.1
	EER		3.1	3.4	3.15	3	2.8
Heating[2] (Nominal)	Capacity	kW	67	73	78.5	85	90
		kBtu/h	228.6	249.1	267.8	290	307.1
	Power input	kW	16.8	18.1	21.8	24.3	26.5
	COP		4	4.05	3.6	3.5	3.4
Heating[2] (Max)	Capacity	kW	75.0	81.5	87.5	95.0	100.0
		kBtu/h	255.9	278.1	298.6	324.1	341.2
	Power input	kW	20.28	21.57	26.69	29.37	31.58
	COP		3.70	3.78	3.28	3.24	3.17
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity				
	Maximum quantity		39	43	46	50	53
Compressors	Type		DC inverter				
	Quantity		2				
Fan motors	Type		DC				
	Quantity		2				
	Max. ESP	Pa	20 Default; up to 120 customization option				
Refrigerant	Type		R410A				
	Factory charge	kg	22			25	
Pipe connections[3]	Liquid pipe	mm	Φ19.1	Φ22.2			
	Gas pipe	mm	Φ31.8			Φ38.1	
Airflow rate		m^3/h	25000			24000	
Sound pressure level[4]		dB(A)	64				
Net dimensions (W×H×D)		mm	1730×1830×850				
Packed dimensions (W×H×D)		mm	1800×2000×910				
Net weight		kg	407	429		475	
Gross weight		kg	430	452		507	
Operating temperature range	Cooling	°C	-5 to 54				
	Heating	°C	-25 to 24				

VRF V6-i Series - Heat Pump (Side-discharge type)

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

HP			7	8	9	10	12
Model			MVi-200WV2GN1(A)	MVi-224WV2GN1(A)	MVi-260WV2GN1(A)	MVi-280WV2GN1(A)	MVi-335WV2GN1(A)
Power supply		V/N/Hz	380-415/3/50(60)				
Cooling[1]	Capacity	kW	20	22.4	26	28.5	33.5
		kBtu/h	68.2	76.4	88.7	97.2	114.3
	Power input	kW	5.6	6.3	7.6	8.4	9.2
	EER		3.57	3.56	3.42	3.39	3.64
Heating[2] (Nominal)	Capacity	kW	20	22.4	26	28.5	33.5
		kBtu/h	68.2	76.4	88.7	97.2	114.3
	Power input	kW	4.7	5.3	6.6	7.3	8.1
	COP		4.26	4.23	3.94	3.9	4.14
Heating[2] (Max)	Capacity	kW	22.5	25	28.5	31.5	37.5
		kBtu/h	76.8	85.3	97.2	107.5	128.0
	Power input	kW	5.4	6	7.3	8.1	9.2
	COP		4.17	4.17	3.9	3.89	4.08
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity				
	Maximum quantity		11	13	15	16	20
Compressor	Type		DC inverter				
	Quantity		1				
Fan motors	Type		DC				
	Quantity		2				
Refrigerant	Type		R410A				
	Factory charge	kg	6.5	6.5	6.5	6.5	8
Pipe connections[3]	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7
	Gas pipe	mm	Φ19.1	Φ19.1	Φ22.2	Φ22.2	Φ25.4
Airflow rate		m^3/h	9000	9000	10000	11000	11300
Sound pressure level[4]		dB(A)	58	58	59	60	61
Net dimensions (W×H×D)		mm	1120×1558×528				
Packed dimensions (W×H×D)		mm	1270×1720×565				
Net weight		kg	143		144	144	157
Gross weight		kg	159		160	160	173
Operating temperature range	Cooling	°C	-5 to 55				
	Heating	°C	-20 to 24				

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
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.

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

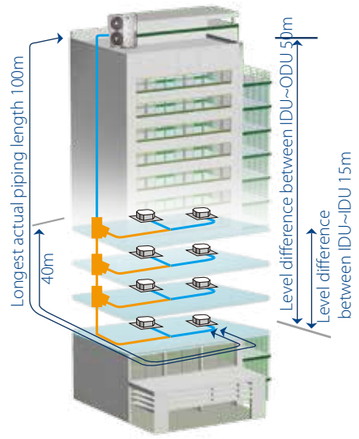
VRF V4 Plus I Series Heat Pump

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

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

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	kW	20.0	22.4	26.0	28.0	33.5	40.0	45.0
	Power input	kW	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	kW	22.0	24.5	28.5	31.5	37.5	45.0	50.0
	Power input	kW	6.1	5.9	6.8	7.5	9.2	11.1	12.7
	COP		3.61	4.15	4.19	4.20	4.08	4.05	3.93
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity						
	Max. quantity		10	11	12	16	20	23	26
Compressor	Type		DC inverter						
	Quantity		1					2	
Fan motor	Type		DC motor					DC motor + AC motor	
	Quantity		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 (W×H×D)		mm	1120×1558×528					1360×1650×540	1460×1650×540
Packing size (W×H×D)		mm	1270×1720×565					1450×1785×560	1550×1785×560
Net weight		kg	137	146.5	147	157		240	275
Gross weight		kg	153	162.5	163	173		260	290
Operating temperature range		℃	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

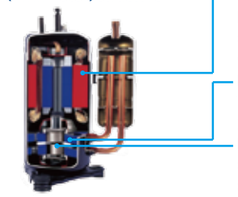
VRF Mini Series Heat Pump

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 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.



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

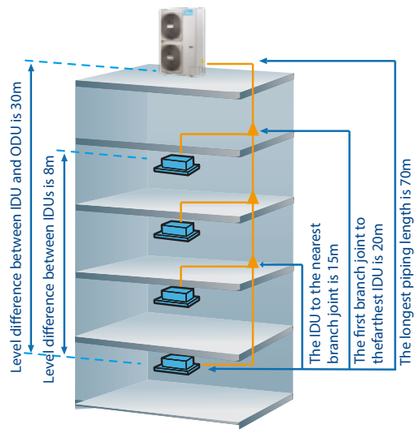
Wide Capacity Range

Mini VRF has two options, standard series and Mini C series. For standard series, it has 4 models from 12kW 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.

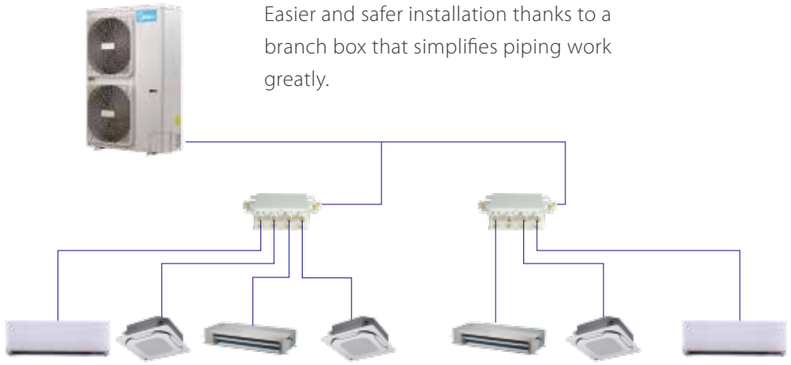
Mini C series			Standard series
8kW	10-12kW	14-16kW	12-18kW
			

Long Piping Capability

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



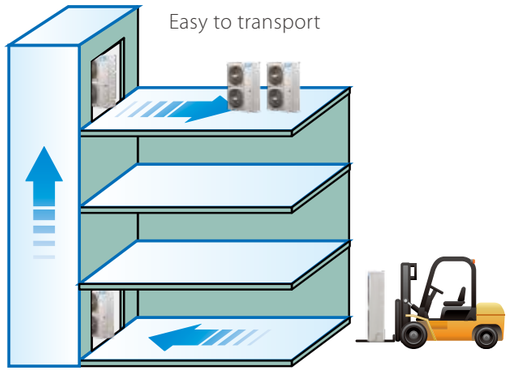
More Convenient Piping Connector – Branch Box



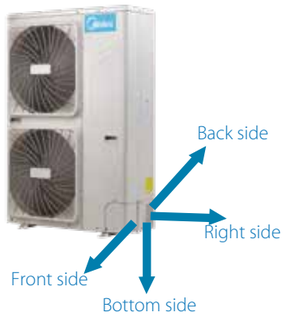
Easier and safer installation thanks to a branch box that simplifies piping work greatly.

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 (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 (W×H×D)		mm	982×712×440	950×840×426	
Packed dimensions (W×H×D)		mm	1048×810×485	1025×950×510	
Net weight		kg	53	71.5	83
Gross weight		kg	57.5	81	92
Operating temperature range		℃	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	Φ9.53
	Gas pipe	mm	Φ15.9	Φ19.1
Airflow rate		m^3/h	5400	5200
Sound pressure level		dB(A)	56	56
Net dimensions (W×H×D)		mm	1040×865×523	
Packed dimensions (W×H×D)		mm	1120×980×560	
Net weight		kg	90.4	94.4
Gross weight		kg	100.4	104.4
Operating temperature range		℃	Cooling: -5~55, 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

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 (W×H×D)		mm	900x1327x400		
Packed dimensions (W×H×D)		mm		1030x1456x435	
Net weight		kg	92	95	102
Gross weight		kg	106	106	113
Operating temperature range		℃	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

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 (W×H×D)		mm	900×1327×400			
Packed dimensions (W×H×D)		mm	1030×1456×435			
Net weight		kg	95		102	107
Gross weight		kg	106		113	118
Operating temperature range		℃	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.

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.

8/10/12HP

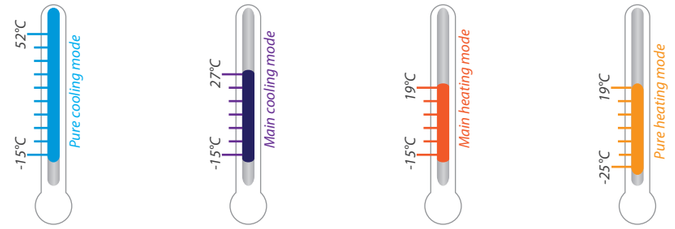
14/16/18/20HP

22-40HP

42-60HP

Wide Operation Range

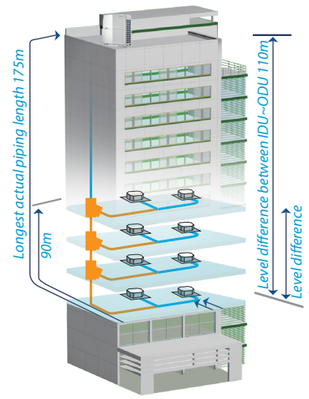
The V6R VRF system has a wide operation range in cooling mode, heating mode and simultaneous cooling and heating mode.



Long Piping Capability

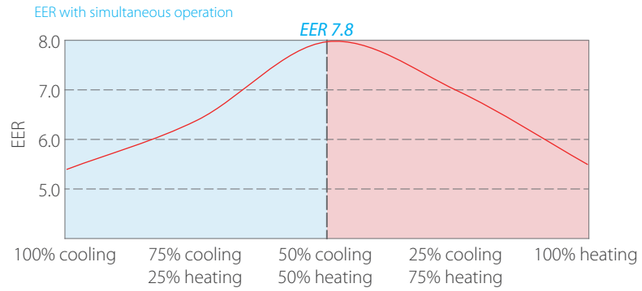
Piping length	Capability (m)
Total piping length	1000
Longest piping length-actual (equivalent)	175 (200)
Longest piping length after first branch	40/90*
Largest level difference between IDUs and ODU-ODU up (down)	110 (110)
Largest level difference between IDUs	30

*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

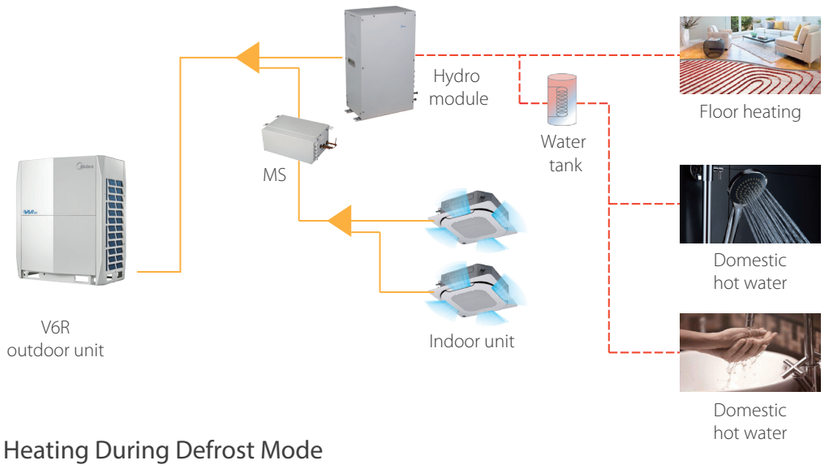
V6R Heat Recovery system can perform both cooling and heating operation simultaneously in one system. Heat recovery is achieved by diverting exhaust heat from indoor units in cooling mode to areas requiring heating. As a result of this, energy efficiency is maximized and electricity costs are reduced. 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.



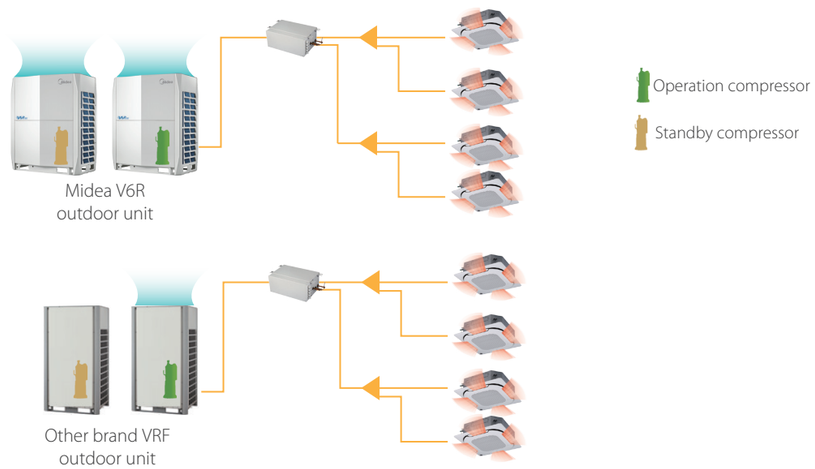
Continuous Heating During Defrost Mode

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.

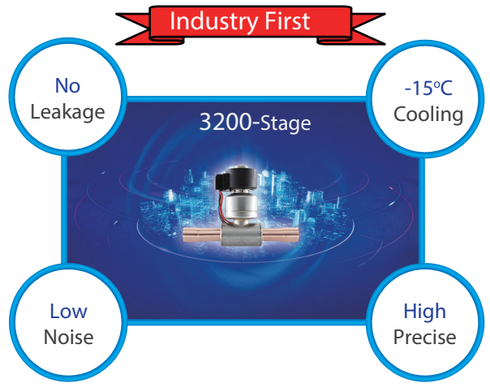


Intelligent MS Box

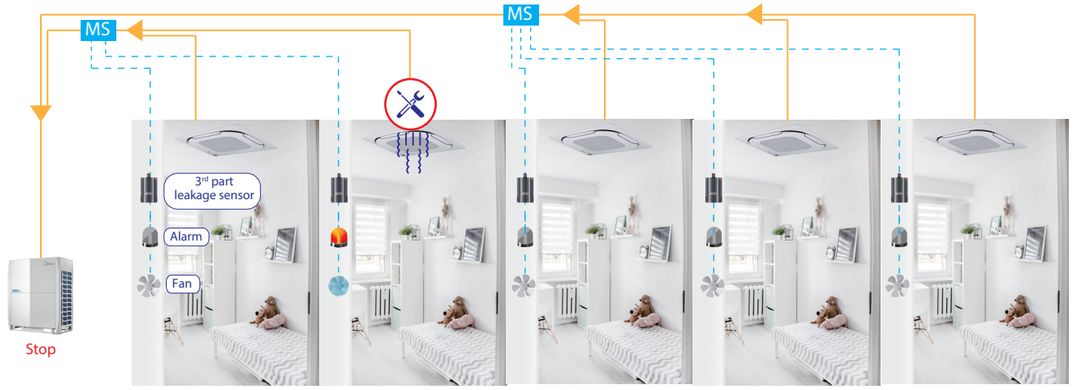
The V6R Heat Recovery system can perform simultaneous heating and cooling operation through the intelligent MS-box. It switches operation mode according to user requirement while it increases efficiency with simultaneous operation.

● **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

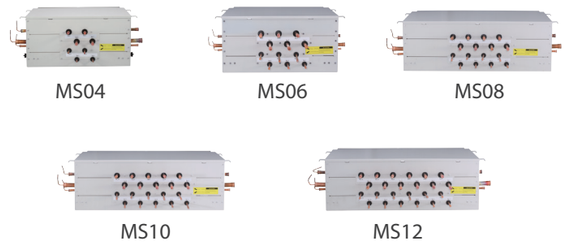


- ▶ Real-time refrigerant leakage detection, safe and reliable operation.
  - • Real-time refrigerant leakage detection
  - • Provide dry contact to 3rd party for alarm and exhaust fan. When refrigerant leakage occurs, the alarm light will be on and the exhaust fan will automatically run to timely reduce 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	m³/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 (W×H×D)		mm	990×1635×790			1340×1635×825			
Packed dimensions (W×H×D)		mm	1090×1805×860			1405×1805×910			
Net weight		kg	232			300			
Gross weight		kg	248			325			
Ambient temp. operation range	Cooling	℃ (DB)	-15 ~ 52						
	Heating	℃ (DB)	-25 ~ 19						
	Domestic hot water	℃ (DB)	-20 ~ 43						

HP			22	24
Model name			MV6-R615WV2GN1	MV6-R680WV2GN1
Combination type			10HP+12HP	10HP+14HP
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	m³/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	Φ34.9
	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 (W×H×D)		mm	(990×1635×790)×2	990×1635×790+1340×1635×825
Packed dimensions (W×H×D)		mm	(1090×1805×860)×2	1090×1805×860+1405×1805×910
Net weight		kg	232×2	232+300
Gross weight		kg	248×2	248+325
Ambient temp. operation range	Cooling	℃ (DB)	-15 ~ 52	
	Heating	℃ (DB)	-25 ~ 19	
	Domestic hot water	℃ (DB)	-20 ~ 43	

Notes:
1. Indoor temperature 27℃ DB, 19℃ WB; outdoor temperature 35℃ DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20℃ DB; outdoor temperature 7℃ DB, 6℃ WB; 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 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.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

VRF 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	12HP+18HP
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	m³/h	24000	24900	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 (W×H×D)		mm	990×1635×790+1340×1635×825		
Packed dimensions (W×H×D)		mm	1090×1805×860+1405×1805×910		
Net weight		kg	232+300		
Gross weight		kg	248+325		
Ambient temp. operation range	Cooling	℃ (DB)	-15 ~ 52		
	Heating	℃ (WB)	-25 ~ 19		
	Domestic hot water	℃ (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	20HP+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	m³/h	29800	30700	31600	31600	31600
Refrigerant	Type		R410A				
	Factory charge	kg	20				
Pipe connections[3]	Liquid pipe	mm	Φ19.1				
	Low pressure gas pipe	mm	Φ34.9			Φ41.3	
	High pressure gas pipe	mm	Φ28.6			Φ34.9	
Sound pressure level[4]		dB(A)	67	68	68	68	68
Sound power level[4]		dB(A)	91	91	91	91	91
Net dimensions (W×H×D)		mm	(1340×1635×825)×2				
Packed dimensions (W×H×D)		mm	(1405×1805×910)×2				
Net weight		kg	300×2				
Gross weight		kg	325×2				
Ambient temp. operation range	Cooling	℃ (DB)	-15 ~ 52				
	Heating	℃ (WB)	-25 ~ 19				
	Domestic hot water	℃ (DB)	-20 ~ 43				

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

VRF 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
Combination type			12HP+14HP+16HP	12HP+16HP+16HP	14HP+16HP+16HP	16HP+16HP+16HP
Power supply		V/N/Hz	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		50-200% of outdoor unit capacity			
	Maximum quantity		64			
Compressor	Type		DC inverter			
	Quantity		3			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		5		6	
	Static pressure	Pa	0,20,40,60,80(Selectable)			
	Air flow rate	m^3/h	38900	39800	43800	44700
Refrigerant	Type		R410A			
	Factory charge	kg	28		30	
Pipe connections[3]	Liquid pipe	mm	Φ19.1			
	Low pressure gas pipe	mm	Φ41.3			
	High pressure gas pipe	mm	Φ34.9			
Sound pressure level[4]		dB(A)	67	68	68	69
Sound power level[4]		dB(A)	89	91	91	93
Net dimensions (W×H×D)		mm	990×1635×790+(1340×1635×825)×2		(1340×1635×825)×3	
Packed dimensions (W×H×D)		mm	1090×1805×860+(1405×1805×910)×2		(1405×1805×910)×3	
Net weight		kg	232+300×2		300×3	
Gross weight		kg	248+325×2		325×3	
Ambient temp. operation range	Cooling	°C (DB)	-15 ~ 52			
	Heating	°C (WB)	-25 ~ 19			
	Domestic hot water	°C (DB)	-20 ~ 43			

HP			50	52	54	56	58	60
Model name			MV6-R1400WV2GN1	MV6-R1450WV2GN1	MV6-R1500WV2GN1	MV6-R1560WV2GN1	MV6-R1620WV2GN1	MV6-R1680WV2GN1
Combination type			16HP+16HP+18HP	16HP+18HP+18HP	18HP+18HP+18HP	18HP+18HP+20HP	18HP+20HP+20HP	20HP+20HP+20HP
Power supply		V/N/Hz	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		50-200% of outdoor unit capacity					
	Maximum quantity		64					
Compressor	Type		DC inverter					
	Quantity		3					
Fan	Type		Propeller					
	Motor type		DC					
	Quantity		6					
	Static pressure	Pa	0,20,40,60,80(Selectable)					
	Air flow rate	m^3/h	45600	46500	47400	47400	47400	47400
Refrigerant	Type		R410A					
	Factory charge	kg	30					
Pipe connections[3]	Liquid pipe	mm	Φ19.1					
	Low pressure gas pipe	mm	Φ41.3					
	High pressure gas pipe	mm	Φ34.9					
Sound pressure level[4]		dB(A)	69	69	70	70	70	70
Sound power level[4]		dB(A)	93	93	93	93	93	93
Net dimensions (W×H×D)		mm	(1340×1635×825)×3					
Packed dimensions (W×H×D)		mm	(1405×1805×910)×3					
Net weight		kg	300×3					
Gross weight		kg	325×3					
Ambient temp. operation range	Cooling	°C (DB)	-15 ~ 52					
	Heating	°C (WB)	-25 ~ 19					
	Domestic hot water	°C (DB)	-20 ~ 43					

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

VRF 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	16
Max. total capacity of all downstream indoor units		kW	32	49	63	85	85	85
Pipe connections to ODU[1]	Liquid pipe	mm	Ø9.53/Ø12.7	Ø9.53/Ø12.7/Ø15.9/Ø19.1	Ø9.53/Ø12.7/Ø15.9/Ø19.1	Ø12.7/Ø15.9/Ø19.1/Ø22.2	Ø12.7/Ø15.9/Ø19.1/Ø22.2	Ø12.7/Ø15.9/Ø19.1/Ø22.2
	Low pressure gas pipe	mm	Ø15.9/Ø19.1/Ø22.2	Ø19.1/Ø22.2/Ø28.6	Ø19.1/Ø22.2/Ø28.6	Ø22.2/Ø28.6/Ø34.9	Ø22.2/Ø28.6/Ø34.9	Ø22.2/Ø28.6/Ø34.9
	High pressure gas pipe	mm	Ø12.7/Ø15.9/Ø19.1	Ø15.9/Ø19.1/Ø22.2/Ø28.6	Ø15.9/Ø19.1/Ø22.2/Ø28.6	Ø19.1/Ø22.2/Ø28.6	Ø19.1/Ø22.2/Ø28.6	Ø19.1/Ø22.2/Ø28.6
Pipe connections to IDU[1]	Liquid pipe	mm	Ø6.35/Ø9.53	Ø6.35/Ø9.53	Ø6.35/Ø9.53	Ø6.35/Ø9.53	Ø6.35/Ø9.53	Ø6.35/Ø9.53
	Gas pipe	mm	Ø12.7/Ø15.9	Ø12.7/Ø15.9	Ø12.7/Ø15.9	Ø12.7/Ø15.9	Ø12.7/Ø15.9	Ø12.7/Ø15.9
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 (W×H×D)		mm	440×195×296	668×250×574	668×250×574	974×250×574	974×250×574	974×250×574
Packed dimensions (W×H×D)		mm	740×275×405	1020×390×850	1020×390×850	1320×390×850	1320×390×850	1320×390×850
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-D140HHN1-3
Power supply			220-240V~50/60Hz
Heating Capacity[1]		kW	14
Operating temperature range	Heating	°C	-20~30
	Domestic hot water	°C	-20~43
Water temperature		°C	25~80
Water flow rate	Nominal (Min.-Max.)	m^3/h	2.4 (1.2-2.9)
Allowable water pressure		Mpa	0.1-0.3
Refrigerant	Type		R134a
	Factory charge	kg	1.2
Sound pressure level		dB(A)	43
Net dimensions (W×H×D)		mm	450x795x300
Packed dimensions (W×H×D)		mm	735×820×380
Net / Gross weight		kg	63/71
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	0~40
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)

18/20/22HP
(with dual fans)

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

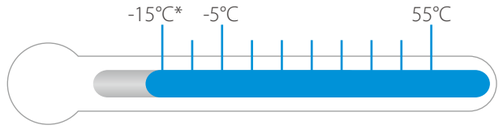
16-60HP

24-90HP

Wide Operating Temperature Range

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

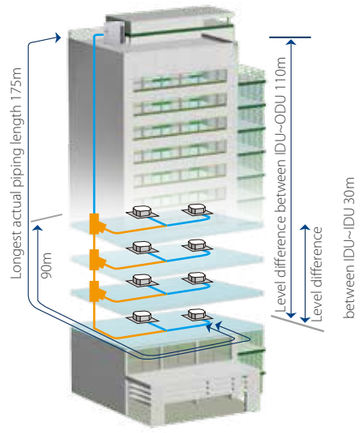
* Cooling operation at -15℃ is available as a customization option.



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		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	22.4	28.0	33.5
		kBtu/h	76.5	95.6	114.4
	Power input	kW	5.17	6.81	9.13
	EER		4.33	4.11	3.67
Connected indoor unit	Total capacity		50-130%		
	Maximum quantity		13	16	20
Compressor	Type		DC inverter		
	Quantity		1		
Fan	Type		DC		
	Model		ZKSN-560-8-42L		
	Quantity		1		
	Motor output	kW	0.56		
	Max. ESP	Pa	20 default;60 customization option		
	Airflow rate	m^3/h	10400		10800
Refrigerant	Type		R410A		
	Factory charge	kg	8		
Pipe connections[2]	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4	Φ28.6
Sound pressure level[3]		dB(A)	57	58	60
Net dimensions (W×H×D)		mm	960×1615×765		
Packed dimensions (W×H×D)		mm	1025×1790×830		
Net weight		kg	188		
Gross weight		kg	204		
Ambient temp.	Cooling	℃	-5 ℃ to 55 ℃		

HP			14	16	18	20
Model name			MVC-400WV2GN1	MVC-450WV2GN1	MVC-500WV2GN1	MVC-560WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	40.0	45.0	50.0	56.0
		kBtu/h	136.6	153.7	170.8	191.3
	Power input	kW	10.58	12.26	14.88	17.66
	EER		3.78	3.67	3.36	3.17
Connected indoor unit	Total capacity		50-130%			
	Maximum quantity		23	26	29	33
Compressor	Type		DC inverter			
	Quantity		1		2	
Fan	Type		DC			
	Model		ZKSN-750-8-2		ZKSN-560-8-42L	
	Quantity		1		2	
	Motor output	kW	0.75		0.56×2	
	Max. ESP	Pa	20 default;60 customization option			
	Airflow rate	m^3/h	11600		12000	12200
Refrigerant	Type		R410A		R410A	
	Factory charge	kg	11		13	
Pipe connections[2]	Liquid pipe	mm	Φ15.9		Φ15.9	
	Gas pipe	mm	Φ31.8		Φ31.8	
Sound pressure level[3]		dB(A)	60		63	
Net dimensions (W×H×D)		mm	960×1615×765		1250×1615×765	
Packed dimensions (W×H×D)		mm	1025×1790×830		1305×1790×820	
Net weight		kg	197		278	
Gross weight		kg	213		297	
Ambient temp.	Cooling	℃	-5 ℃ to 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. Diameters given are those of the unit's accessories.
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			22	24	26
Model name			MVC-615WV2GN1	MVC-670WV2GN1	MVC-730WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	61.5	67.0	73.0
		kBtu/h	210.0	228.8	249.3
	Power input	kW	20.23	20.68	23.40
	EER		3.04	3.24	3.12
Connected indoor unit	Total capacity		50-130%	50-130%	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	0.56×2		
	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	64	
Net dimensions (W×H×D)		mm	1250×1615×765	1585×1615×765	
Packed dimensions (W×H×D)		mm	1305×1790×820	1650×1810×840	
Net weight		kg	278	338	
Gross weight		kg	297	362	
Ambient temp.	Cooling	℃	-5 ℃ to 55 ℃		

HP			28	30
Model name			MVC-785WV2GN1	MVC-850WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)	
Cooling[1]	Capacity	kW	78.5	85.0
		kBtu/h	268.1	290.3
	Power input	kW	26.08	29.51
	EER		3.01	2.88
Connected indoor unit	Total capacity		50-130%	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	0.56×2	
	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 (W×H×D)		mm	1585×1615×765	
Packed dimensions (W×H×D)		mm	1650×1810×840	
Net weight		kg	338	
Gross weight		kg	362	
Ambient temp.	Cooling	℃	-5 ℃ to 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. Diameters given are those of the unit's accessories.
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			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	197X2	278+188	278+197	
Gross weight		kg	213X2	297+204	297+213	
Ambient temp	Cooling	℃	-5℃ to 55 ℃			

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	℃	-5℃ to 55 ℃		

Notes:
1. Indoor temperature 27℃ DB, 19℃ WB; outdoor temperature 35℃ 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			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	℃	-5℃ to 55 ℃			

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	℃	-5℃ to 55 ℃		

Notes:
1. Indoor temperature 27℃ DB, 19℃ WB; outdoor temperature 35℃ 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	19×2	19+11×2	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 (W×H×D)		mm	(1585×1615×765)×2	(1585×1615×765)+(960×1615×765)×2	(1585×1615×765)+(1250×1615×765)+(960×1615×765)	
Packed dimensions (W×H×D)		mm	(1650×1810×840)×2	(1650×1810×840)+(1025×1790×830)×2	(1650×1810×840)+(1305×1790×820)+(1025×1790×830)	
Net weight		kg	338×2	338+197×2	338+278+197	
Gross weight		kg	362×2	362+213×2	362+297+213	
Ambient temp	Cooling	℃	-5℃ to 55 ℃			

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	19×2+11		
Pipe connections[2]	Liquid pipe	mm	22.2			
	Gas pipe	mm	44.5			
Sound pressure level[3]		dB(A)	67			68
Net dimensions (W×H×D)		mm	(1585×1615×765)+(1250×1615×765)+(960×1615×765)	(1585×1615×765)×2+(960×1615×765)		
Packed dimensions (W×H×D)		mm	(1650×1810×840)+(1305×1790×820)+(1025×1790×830)	(1650×1810×840)×2+(1025×1790×830)		
Net weight		kg	338+278+197	338×2+197		
Gross weight		kg	362+297+213	362×2+213		
Ambient temp	Cooling	℃	-5℃ to 55 ℃			

Notes:
1. Indoor temperature 27℃ DB, 19℃ WB; outdoor temperature 35℃ 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			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	19×2+11	19×2+13		
Pipe connections[2]	Liquid pipe	mm	22.2			
	Gas pipe	mm	44.5			
Sound pressure level[3]		dB(A)	68			
Net dimensions (W×H×D)		mm	(1585×1615×765)×2+(960×1615×765)	(1585×1615×765)×2+(1250×1615×765)		
Packed dimensions (W×H×D)		mm	(1650×1810×840)×2+(1025×1790×830)	(1650×1810×840)×2+(1305×1790×820)		
Net weight		kg	338×2+197	338×2+278		
Gross weight		kg	362×2+213	362×2+297		
Ambient temp	Cooling	℃	-5℃ to 55 ℃			

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	19×3			
Pipe connections[2]	Liquid pipe	mm	25.4			
	Gas pipe	mm	50.8			
Sound pressure level[3]		dB(A)	68			
Net dimensions (W×H×D)		mm	(1585×1615×765)×3			
Packed dimensions (W×H×D)		mm	(1650×1810×840)×3			
Net weight		kg	338×3			
Gross weight		kg	362×3			
Ambient temp	Cooling	℃	-5℃ to 55 ℃			

Notes:
1. Indoor temperature 27℃ DB, 19℃ WB; outdoor temperature 35℃ 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.

Outdoor Units

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

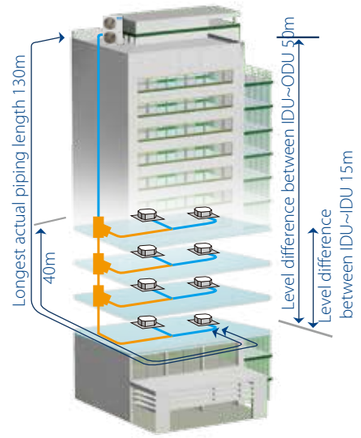
VRF VC-i Series
Cooling Only

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

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

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 (W×H×D)		mm	902×1327×370			
Packed dimensions (W×H×D)		mm	1030×1456×435			
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 (W×H×D)		mm	902×1327×370			
Packed dimensions (W×H×D)		mm	1030×1456×435			
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

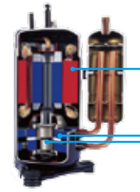
Optimized design for small buildings

- 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 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

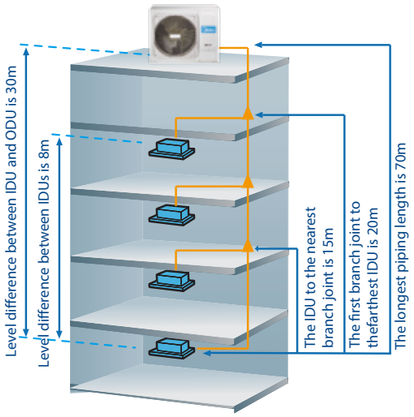
Wide Capacity Range

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	
7.2-11kW	14.5-17kW
	

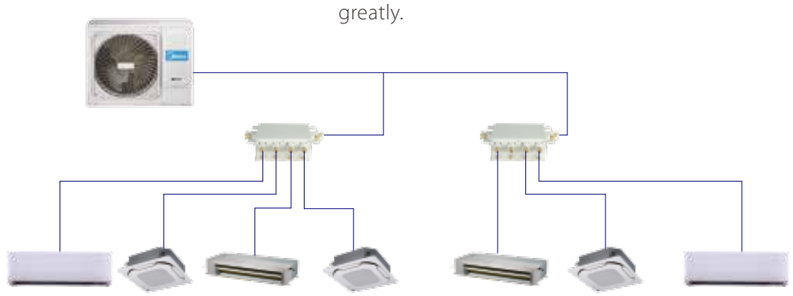
Long Piping Capability

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



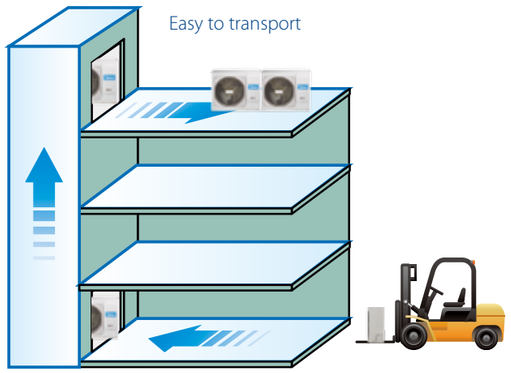
More Convenient Piping Connector – Branch Box

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

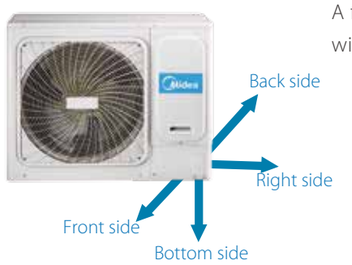


Easy Installation

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		℃	-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		℃	-5 to 48				

Notes:
1. Indoor temperature 27℃ DB, 19℃ WB; outdoor temperature 35℃ 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

VRF V4 Plus W Series Water Cooled

Perfect combination of water and refrigerant system

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

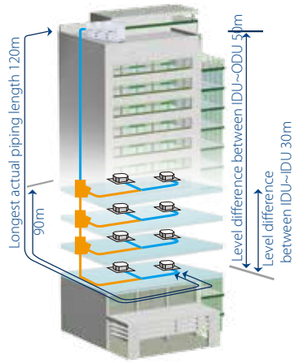
Wide Range of Outdoor Units

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

8/10/12HP

Max. 3 units combination

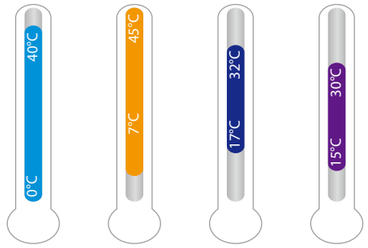
Long Piping Capability



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

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

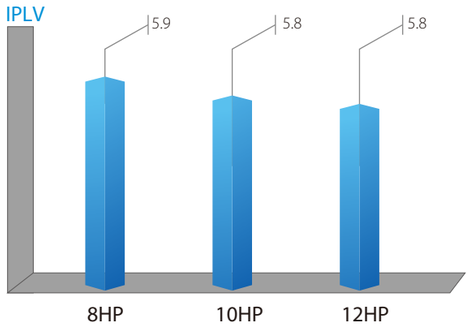
Wide Operation Temperature Range



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

High IPLV

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

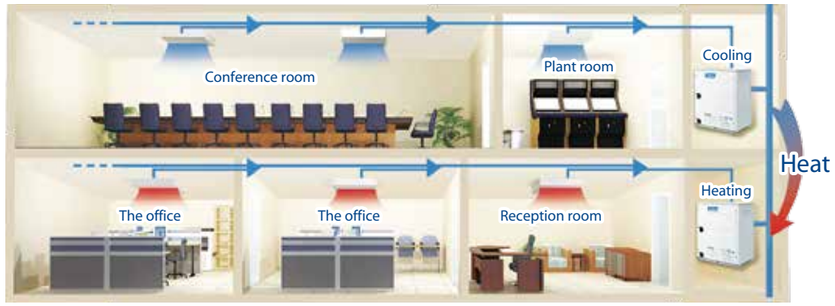


High Efficiency Double-Pipe Heat Exchanger

With the innovatively designed double-pipe heat exchanger, the 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.

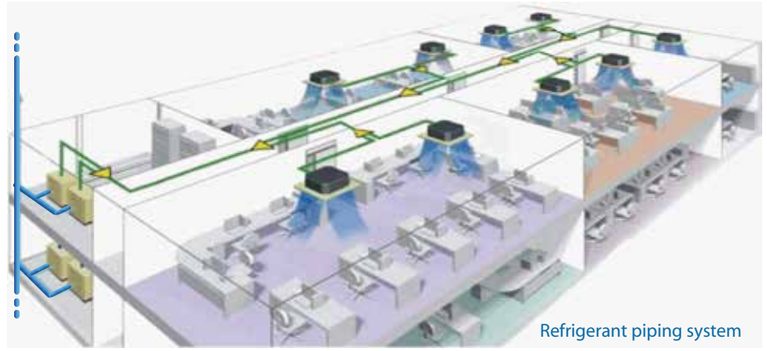
Water Side Heat Recovery Function

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.



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			/	/	/	8HP×2	8HP+10HP	10HP×2	10HP+12HP
Cooling[1]	Capacity	kW	25.2	28.0	33.5	50.4	53.2	56.0	61.5
	Power input	kW	4.80	6.10	8.00	9.60	10.90	12.20	14.10
	EER		5.25	4.59	4.19	5.25	4.88	4.59	4.36
Heating[2]	Capacity	kW	27.0	31.5	37.5	54.0	58.5	63.0	69.0
	Power input	kW	4.45	5.83	7.80	8.90	10.3	11.66	13.63
	COP		6.07	5.40	4.81	6.07	5.69	5.40	5.06
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity						
	Max. quantity		13	16	19	23	29	33	36
Compressor	Type		DC inverter						
	Quantity		1	1	1	2	2	2	2
Heat exchanger	Type		Double-pipe heat exchanger						
	Rated water flow volume	m^3/h	5.4	6	7.2	5.4×2	5.4+6	6×2	6+7.2
Refrigerant	Type		R410A						
	Factory charging	kg	2	2	2	2×2	2×2	2×2	2×2
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 (W×H×D)		mm	780×1000×550			(780×1000×550)×2			
Packing size (W×H×D)		mm	845×1170×600			(845×1170×600)×2			
Net weight		kg	146	146	147	146×2	146×2	146×2	146+147
Gross weight		kg	155	155	156	155×2	155×2	155×2	155+156
Operating temperature range		℃	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			12HP×2	8HP×2+10HP	8HP+10HP×2	10HP×3	10HP×2+12HP	10HP+12HP×2	12HP×3
Cooling[1]	Capacity	kW	67.0	78.4	81.2	84.0	89.5	95.0	100.5
	Power input	kW	16.0	15.7	17.0	18.3	20.2	22.1	24.0
	EER		4.19	4.99	4.78	4.59	4.43	4.30	4.19
Heating[2]	Capacity	kW	75.0	85.5	90.0	94.5	100.5	106.5	112.5
	Power input	kW	15.6	14.73	16.11	17.49	19.46	21.43	23.4
	COP		4.81	5.80	5.59	5.40	5.16	4.97	4.81
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity						
	Max. quantity		39	43	46	50	53	56	59
Compressor	Type		DC inverter						
	Quantity		2	3	3	3	3	3	3
Heat exchanger	Type		Double-pipe heat exchanger						
	Rated water flow volume	m^3/h	7.2×2	5.4×2+6	5.4+6×2	6×3	6×2+7.2	6+7.2×2	7.2×3
Refrigerant	Type		R410A						
	Factory charging	kg	2×2	2×3	2×3	2×3	2×3	2×3	2×3
Pipe connections[3]	Liquid pipe	mm	Φ15.9	Φ19.1	Φ19.1	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ28.6	Φ31.8	Φ31.8	Φ31.8	Φ31.8	Φ38.1	Φ38.1
	Oil balance pipe	mm	Φ6.35	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 (W×H×D)		mm	(780×1000×550)×2	(780×1000×550)×3					
Packing size (W×H×D)		mm	(845×1170×600)×2	(845×1170×600)×3					
Net weight		kg	147×2	146×3	146×3	146×3	146×2+147	146+147×2	147×3
Gross weight		kg	156×2	155×3	155×3	155×3	155×2+156	155+156×2	156×3
Operating temperature range		℃	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.

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
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		● ●	● ●	● ●	● ●	● ●	● ●	● ●													
Two-way Cassette			● ●	● ●	● ●	● ●	● ●	● ●													
Four-way Cassette				● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●		● ●	●						
Compact Four-way Cassette		●	● ●	● ●	● ●	● ●															
Medium Static Pressure Duct			● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●		● ●		● ●	●						
High Static Pressure Duct								● ●	● ●	● ●		● ●		● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Wall Mounted			● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●											
Ceiling & Floor					● ●	● ●	● ●	● ●	● ●	● ●		● ●		● ●	●						
Floor Standing - Concealed			●	●	●	●	●	●	●												
Floor Standing - Exposed			●	●	●	●	●	●	●												
Fresh Air Processing Unit													●	●		●	●	●		●	●

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

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

DX Modular Air Handling Unit

Airflow (m^3/h)	1400	2400	2450	3000	4000	5000	6000	7000	7500	8000	10000	12000	14000	15000	18500	23500	28000	34500
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	Fresh Air Processing Unit
Comfort	Cold air prevention	When starting to warm up, the fan speed is automatically adjusted according to coil temperature to prevent cold air discharge. After warming up, fan speed is set as desired	●	●		●	●	●	●	●	●	●	●
	Quiet operation	All indoor units are quiet operation	●	●		●	●	●	●	●	●	●	●
	Auto cooling-heating changeover[1]	Automatically selects cooling or heating mode to achieve the set temperature	●	●		●	●	●	●	●	●	●	●
	Digital display on/off	Indoor unit displays can be shut off at night, creating a better environment for rest	●	●		●	●	●	●	●	●	●	●
	Buzzer sound on/off	The buzzer sound of the indoor unit can be turned off to create a quieter environment	●	●		●	●	●	●	●	●	●	●
	Heat stratification compensation	The heat stratification compensation function in HEAT mode obtains a value that more closely reflects the true temperature of the air conditioned space	●	●		●	●	●	●	●	●	●	●
	Two thermistors control	The indoor temperature can be checked using the thermistor in the remote controller as well as from the indoor unit	●	●		●	●	●	●	●	●	●	●
	0.5℃/1℃ setting temperature adjustment	Set temperature can be adjusted in 0.5℃ or 1℃ steps, enabling precise comfort control	●	●		●	●	●	●	●	●	●	●
Health	Air filter	Removes airborne dust particles to ensure a steady supply of clean air	●	●		●	●	●	●	●	●	●	●
	Fresh air intake	A reserved outside air intake port allows outdoor air to be introduced directly into the unit	● (45-71)	●		● (AC series) × (DC series)	●	●	×	×	×	×	●
	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	Vertical swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution	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	Possibility to select automatic horizontal moving of the air discharge louvre, for uniform air flow and temperature distribution	Manually set fixed angle+auto (45-71)	×		×	×	×	×	×	Manually set fixed angle+auto	×	×
	Fan speed steps	3 or 7 fan speeds can be selected to optimize comfort levels	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)
	Individual louver control[2]	Individual louver control via the wired remote controller makes it simple to fix the position of each flap individually	×	×		×	● (360° panel)	×	×	×	×	×	×
	Auto fan speed	Automatically controls rotation speed of fan depending on indoor load to achieve efficiency and comfort simultaneously	●	●		●	●	●	●	●	●	●	●
	Soft wind mode	Supply air against the ceiling to create windless environment	×	×		×	●	×	×	×	×	×	×
	Adjustable ESP	ESP can be adjusted over a wide range to ensure constant airflow	×	×		×	×	●	●	×	×	● (Concealed) × (Exposed)	●
Remote control & timer	Timer	Timer can be set to start and stop operation anytime on a daily or weekly basis	●	●		●	●	●	●	●	●	●	●
	Infrared remote control	Infrared remote control with LCD to remotely control your indoor unit	●	●		●	●	●	●	●	●	●	●
	Wired remote control	Wired remote control to remotely control your indoor unit	●	●		●	●	●	●	●	●	●	●
	Group control	Up to 16 indoor units can be in a group control system	●	●		●	●	●	●	● (DC series) × (AC series)	●	●	●
	Centralized control	Centralized control to control several indoor units from one single point	●	●		●	●	●	●	●	●	●	●
	℃/℉ setting	Temperature unit ℃ or ℉ can be set according to your usage habits	●	●		●	●	●	●	●	●	●	●
Other functions	Energy saving[3]	Using Infrared Sensor Controller automatically turns indoor units on or off upon sensing that the room is occupied or unoccupied,ensuring climate control whilst minimizing energy consumption	●	●		●	●	●	●	●	●	●	●
	Auto-restart	The unit restarts automatically at the original settings after power failure	●	●		●	●	●	●	●	●	●	●
	Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies	●	●		●	●	●	●	●	●	●	●
	Drain pump	Facilitates condensation draining from the indoor unit	●	●		●	●	●	○	×	×	×	○
	Fan only	The air conditioner can be used as fan, blowing air without cooling or heating	●	●		●	●	●	●	●	●	●	●
	Long-distance on/off function	Long-distance startup or shutoff the system	○	○		○	○	○	○	○	○	○	○
	Long-distance alarm function	Long-distance alarm when an error occurs	○	○		○	○	○	○	○	○	○	○
	Multiple protections	Multiple protections make the unit run more reliably	●	●		●	●	●	●	●	●	●	●
	Easy cleaning	The unit is easy cleaning thanks to the rational design	●	●		●	●	●	●	●	●	●	●

Note:
●: equipped as standard; ○: customization option; ×: without this function
1. Please contact your local dealer for detailed information.
2. The indoor units must be customized before order so as to use 360° panel with individual louver control,inproper combinations may cause malfunction.
3. 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℃/1℃ 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

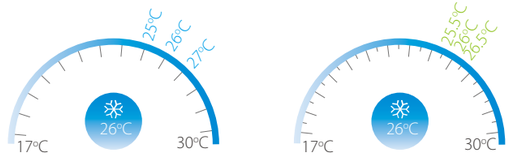
COMFORT

Quiet Operation

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

0.5℃/1℃ Setting Temperature Adjustment

Set temperature can be adjusted in 0.5℃ or 1℃ 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.

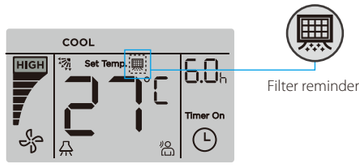
HEALTH

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

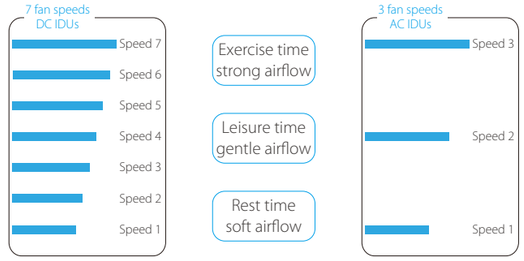
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

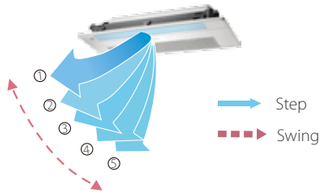
Multiple Fan Speeds

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

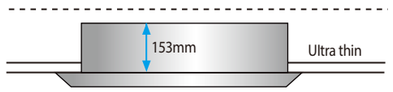
There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs.



EASY INSTALLATION

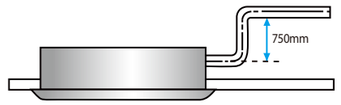
Easy Installation

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
	Power input	W	25	25	30	30
Heating[2]	Capacity	kW	2.2	2.6	3.2	4.0
		kBtu/h	7.5	8.9	10.9	13.6
	Power input	W	25	25	30	30
Airflow rate[3]		m³/h	380/355/330/300/286/263/240		460/440/410/380/355/330/300	
Sound pressure level[4]		dB(A)	30/28/27/26/25/24/22		37/36/35/34/32/31/30	38/37/35/34/32/31/30
Indoor unit	Net dimensions[5] (WxHxD)	mm	1054×153×425			
	Packed dimensions (WxHxD)	mm	1155×245×490			
	Net/Gross weight	kg	11.8/15.3		12.3/15.8	
Panel	Net dimensions (WxHxD)	mm	1180×25×465			
	Packed dimensions (WxHxD)	mm	1232×107×517			
	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
	Power input	W	40	48	60
Heating[2]	Capacity	kW	5.0	6.3	8.0
		kBtu/h	17.1	21.5	27.3
	Power input	W	40	48	60
Airflow rate[3]		m³/h	693/662/638/600/556/510/476	792/763/728/688/643/589/549	933/873/815/749/689/637/592
Sound pressure level[4]		dB(A)	39/37/36/35/34/32/31	41/39/38/37/36/35/33	43/41/40/39/37/36/35
Indoor unit	Net dimensions[5] (WxHxD)	mm	1275×189×450		
	Packed dimensions (WxHxD)	mm	1370×295×505		
	Net/Gross weight	kg	16.1/20.4	16.4/20.7	17.6/22.4
Panel	Net dimensions (WxHxD)	mm	1350×25×505		
	Packed dimensions (WxHxD)	mm	1410×95×560		
	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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

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
	Input	W	41	41	41	41	48	48	60
Heating[2]	Capacity	kW	2.2	2.6	3.2	4	5	6.3	8
	Input	W	41	41	41	41	48	48	60
Indoor fan motor	Type		AC						
	Quantity		1						
Airflow rate (H/M/L)		m³/h	523/404/275	523/404/275	573/456/315	573/456/315	693/600/476	792/688/549	933/749/592
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	1054×153×425				1275×189×450		
	Packing (WxHxD)	mm	1155×245×490				1370×295×505		
	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	1180×25×465				1350×25×505		
	Packing (WxHxD)	mm	1232×107×517				1410×95×560		
	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[2]	Capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
	Input	W	41	41	41	41	54	60	75
Heating[2]	Capacity	kW	2.2	2.6	3.2	4	5	6.3	8
	Input	W	41	41	41	41	54	60	75
Indoor fan motor	Type		AC						
	Quantity		1						
Refrigerant type			R410A						
Airflow rate (H/M/L)		m³/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	1054×153×425				1275×189×450		
	Packing (WxHxD)	mm	1155×245×490				1370×295×505		
	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	1180×25×465				1350×25×505		
	Packing (WxHxD)	mm	1232×107×517				1410×95×560		
	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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Two-way Cassette

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	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

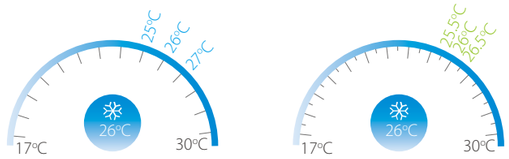
COMFORT

Quiet Operation

The Two-way Cassette's optimized, low resistance air outlets reduce noise levels to as low as 24dB(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.

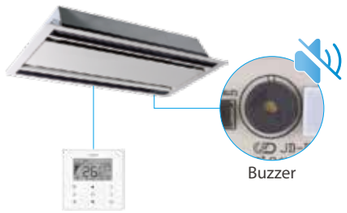


Digital Display On/Off

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

Buzzer Sound On/Off

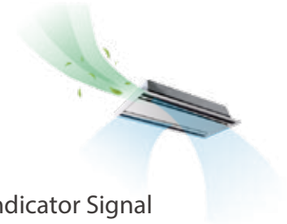
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

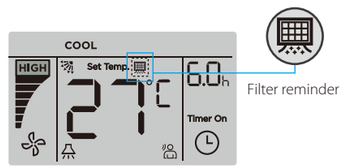
Fresh Air Intake

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

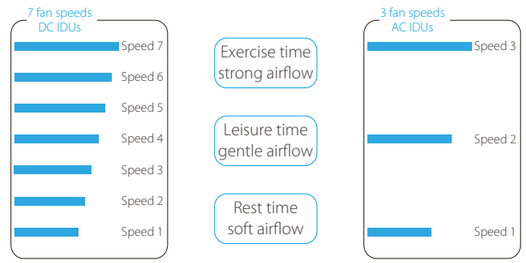
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

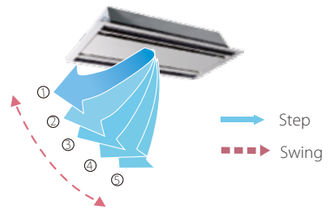
Multiple Fan Speeds

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.



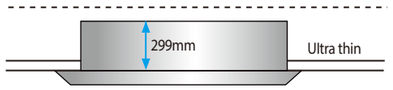
EASY INSTALLATION

High Airflow

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

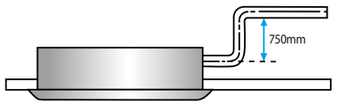
Easy Installation

The slim, compact design make the Two-way Cassette ideal for interiors with limited ceiling space.



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	1172×299×591		
	Packed dimensions (WxHxD)	mm	1355×400×675		
	Net/Gross weight	kg	33.5/42.0		
Panel	Net dimensions (WxHxD)	mm	1430×53×680		
	Packed dimensions (WxHxD)	mm	1525×130×765		
	Net/Gross weight	kg	10.5/15		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	Drain pipe	mm	OD Φ32		

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	1172×299×591		
	Packed dimensions (WxHxD)	mm	1355×400×675		
	Net/Gross weight	kg	35/43.5		
Panel	Net dimensions (WxHxD)	mm	1430×53×680		
	Packed dimensions (WxHxD)	mm	1525×130×765		
	Net/Gross weight	kg	10.5/15		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ32		

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

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	1172×299×591					
	Packing (WxHxD)	mm	1355×400×675					
	Net/Gross weight	kg	34/42.5			36/44.5		
Panel	Dimension (WxHxD)	mm	1430×53×680					
	Packing (WxHxD)	mm	1525×130×765					
	Net/Gross weight	kg	10.5/15					
Pipe connections	Liquid pipe	mm	Φ6.35				Φ9.53	
	Gas pipe	mm	Φ12.7				Φ15.9	
	Drain pipe	mm	OD Φ32					

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	1172×299×591					
	Packing (WxHxD)	mm	1355×400×675					
	Net/Gross weight	kg	34/42.5			36/44.5		
Panel	Dimension (WxHxD)	mm	1430×53×680					
	Packing (WxHxD)	mm	1525×130×765					
	Net/Gross weight	kg	10.5/15					
Pipe connections	Liquid pipe	mm	Φ6.35				Φ9.53	
	Gas pipe	mm	Φ12.7				Φ15.9	
	Drain pipe	mm	OD Φ32					

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

Compact Four-way Cassette

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

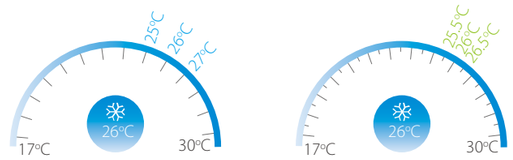
COMFORT

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.

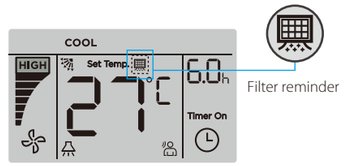
HEALTH

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

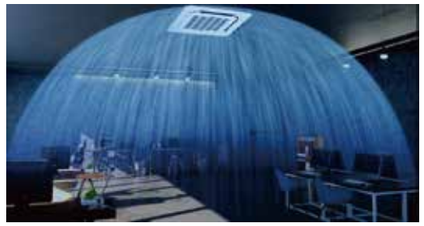
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

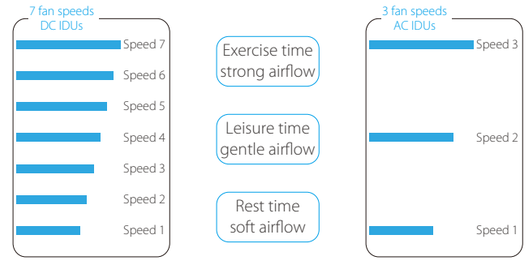
360° Airflow

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.



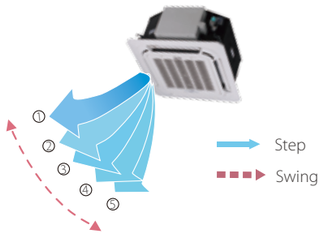
Multiple Fan Speeds

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.



Multiple Steps Vertical Swing

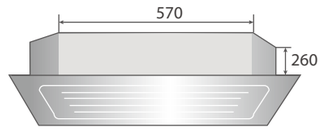
There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs.



EASY INSTALLATION

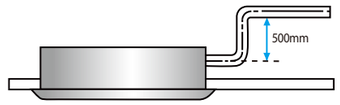
Compact Size

The slim and compact body has reduced the restriction enables the Compact Four-way Cassette successful installation in various ceiling spaces.



High-lift Drain Pump

A drain pump with a 500mm raise height is fitted as standard, simplifying installation of the drain piping.



Specifications - DC Series

Model			MI2-22Q4CDHN1	MI2-28Q4CDHN1
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
	Power input	W	35	35
Heating[2]	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
	Power input	W	35	35
Airflow rate[3]		m^3/h	414/380/345/313/288/268/238	
Sound pressure level[4]		dB(A)	35/34/33/29/26/23/22	
Indoor unit	Net dimensions[5] (WxHxD)	mm	630×260×570	
	Packed dimensions (WxHxD)	mm	700×345×660	
	Net/Gross weight	kg	18/23.8	
Panel	Net dimensions (WxHxD)	mm	647×50×647	
	Packed dimensions (WxHxD)	mm	715×123×715	
	Net/Gross weight	kg	2.5/4.5	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	OD Φ25	

Model			MI2-36Q4CDHN1	MI2-45Q4CDHN1
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	3.6	4.5
		kBtu/h	12.3	15.4
	Power input	W	40	50
Heating[2]	Capacity	kW	4.0	5.0
		kBtu/h	13.6	17.1
	Power input	W	40	50
Airflow rate[3]		m^3/h	521/485/450/409/380/350/314	
Sound pressure level[4]		dB(A)	41/38/35/32/30/29/28	
Indoor unit	Net dimensions[5] (WxHxD)	mm	630×260×570	
	Packed dimensions (WxHxD)	mm	700×345×660	
	Net/Gross weight	kg	19.2/25.0	
Panel	Net dimensions (WxHxD)	mm	647×50×647	
	Packed dimensions (WxHxD)	mm	715×123×715	
	Net/Gross weight	kg	2.5/4.5	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	OD Φ25	

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

Specifications - AC Series

50Hz Series

Model			MDV-D15Q4/N1-A3(B)	MDV-D22Q4/N1-A3(B)	MDV-D28Q4/N1-A3(B)	MDV-D36Q4/N1-A3(B)	MDV-D45Q4/N1-A3(B)
Power supply			1 phase, 220-240V, 50Hz				
Cooling[1]	Capacity	kW	1.5	2.2	2.8	3.6	4.5
	Input	W	36	50	50	56	56
Heating[2]	Capacity	kW	1.7	2.4	3.2	4	5
	Input	W	36	50	50	56	56
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Airflow rate (H/M/L)		m^3/h	400/283/208	414/313/238	414/313/238	521/409/314	521/409/314
Sound pressure level (H/M/L)[3]		dB(A)	35/33/23	36/33/23	36/33/23	42/36/29	42/36/29
Indoor unit	Dimension[4] (WxHxD)	mm	570×260×630				
	Packing (WxHxD)	mm	675×285×675				
	Net/Gross weight	kg	17/20			18.5/21.5	
Panel	Dimension (WxHxD)	mm	647×50×647				
	Packing (WxHxD)	mm	715×123×715				
	Net/Gross weight	kg	2.5/4.5				
Pipe connections	Liquid pipe	mm	Φ6.35				
	Gas pipe	mm	Φ12.7				
	Drain pipe	mm	ODΦ25				

Specifications - AC Series

60Hz Series

Model			MDV-D22Q4/VN1-A3(B)	MDV-D28Q4/VN1-A3(B)	MDV-D36Q4/VN1-A3(B)	MDV-D45Q4/VN1-A3(B)
Power supply			1 phase, 220-240V, 60Hz			
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5
	Input	W	50		60	
Heating[2]	Capacity	kW	2.4	3.2	4	5
	Input	W	50		60	
Indoor fan motor	Type		AC			
	Quantity		1			
Refrigerant type			R410A			
Airflow rate (H/M/L)		m^3/h	397/292/215	408/310/231	496/359/263	496/359/263
Sound pressure level (H/M/L)[3]		dB(A)	36/33/23		42/36/29	
Indoor unit	Dimension[4] (WxHxD)	mm	570×260×630			
	Packing (WxHxD)	mm	675×285×675			
	Net/Gross weight	kg	17.4/20.4		18.8/21.8	
Panel	Dimension (WxHxD)	mm	647×50×647			
	Packing (WxHxD)	mm	715×123×715			
	Net/Gross weight	kg	2.5/4.5			
Pipe connections	Liquid pipe	mm	Φ6.35			
	Gas pipe	mm	Φ12.7			
	Drain pipe	mm	OD Φ25			

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. 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.

Four-way Cassette

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

Key Features

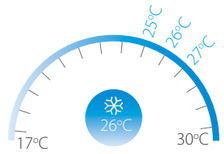
Four-way Cassette		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	● ○ (G3-class) (28-140)	●
	Fresh air intake	●	●
	Dirty filters indicator signal	●	●
Air flow	360° airflow	●	●
	Individual 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

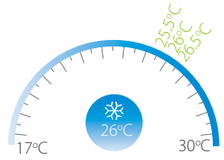
Note:
●: equipped as standard; ○: customization option

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.

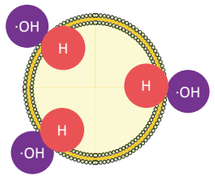
The optional filter comply with EN779:2012

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

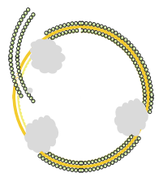
Ionizer Sterilization

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

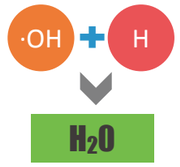
1.Negative ions combine with water molecules to form OH radicals



2.OHradical extraction of hydrogen from bacterial proteins



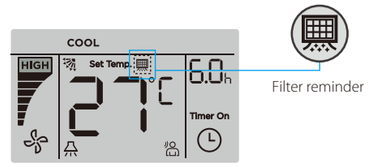
3.Components of bacterial tissues are destroyed and become ineffective (realize sterilization)



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

Dirty Filters Indicator Signal

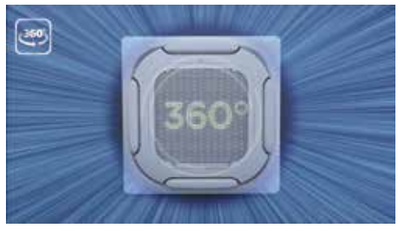
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



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.

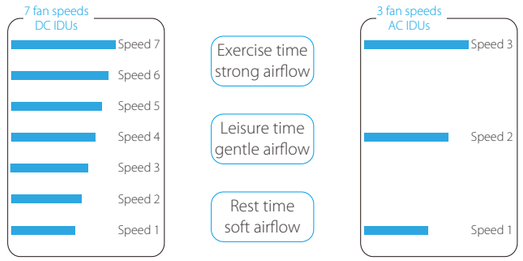
*The indoor units must be customized before order so as to use 360° panel with individual louver control,inproper combinations may cause malfunction

Soft Wind Mode

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

Multiple Fan Speeds

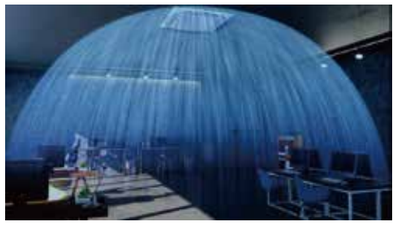
The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



EASY INSTALLATION

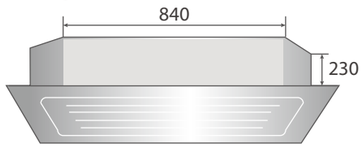
High Ceiling Installation

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.



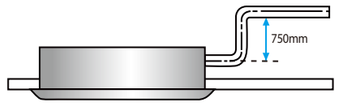
Compact Size

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.



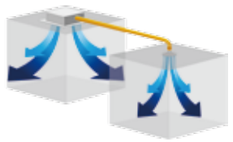
High-lift Drain Pump

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



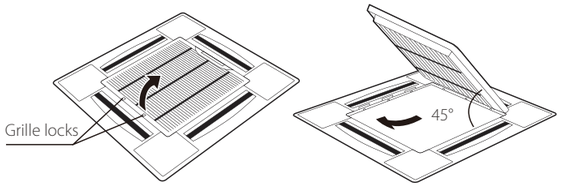
Sub Duct

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.



Simply press two locks to open the grille

Easy to remove the installation cover plate

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
	Power input	W	40	45	50	60	70
Heating[2]	Capacity	kW	3.2	4.0	5.0	6.3	8.0
		kBtu/h	10.9	13.6	17.1	21.5	27.3
	Power input	W	40	45	50	60	70
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	840×230×840				
	Packed dimensions (WxHxD)	mm	955×260×955				
	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 (W×H×D)	mm	950×54.5×950				
	Packed dimensions (W×H×D)	mm	1035×90×1035				
	Net/Gross weight	kg	5.5/8.2				
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32				

Model			MI2-80Q4DHN1	MI2-90Q4DHN1	MI2-100Q4DHN1	MI2-112Q4DHN1	MI2-140Q4DHN1	MI2-160Q4DHN1
Power supply			1 phase, 220-240V, 50/60Hz					
Cooling[1]	Capacity	kW	8.0	9.0	10.0	11.2	14.0	16.0
		kBtu/h	27.3	30.7	34.1	38.2	47.8	54.5
	Power input	W	96	100	150	160	170	170
Heating[2]	Capacity	kW	9.0	10.0	11.0	12.5	16.0	18.0
		kBtu/h	30.7	34.1	37.5	42.7	54.6	61.3
	Power input	W	96	100	150	160	170	170
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	840×230×840	840×300×840				950×300×950
	Packed dimensions (WxHxD)	mm	955×260×955	955×330×955				1050×335×1050
	Net/Gross weight	kg	23.2/27.6	28.4/33.8			30.7/35.8	35.3/41.2
Panel	Net dimensions (W×H×D)	mm	950×54.5×950					1050×55.0×1050
	Packed dimensions (W×H×D)	mm	1035×90×1035					1115×100×1115
	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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

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)	mm	840×230×840				
	Packing (WxHxD)	mm	955×260×955				
	Net/Gross weight	kg	21.5/26.7		23.7/28.9		
Panel	Dimension (WxHxD)	mm	950×50×950				
	Packing (WxHxD)	mm	1035×89×1035				
	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	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	840×230×840	840×300×840			
	Packing (WxHxD)	mm	955×260×955	955×330×955			
	Net/Gross weight	kg	23.7/28.9	28.7/34.1	28.7/34.1	28.7/34.1	30.9/36.3
Panel	Dimension (WxHxD)	mm	950×50×950				
	Packing (WxHxD)	mm	1035×89×1035				
	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:
1. Indoor temperature 27℃ DB, 19℃ WB; outdoor temperature 35℃ DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20℃ DB; outdoor temperature 7℃ DB, 6℃ 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.

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	840×230×840					
	Packing (WxHxD)	mm	955×260×955					
	Net/Gross weight	kg	21.5/26.7		23.7/28.9			
Panel	Dimension (WxHxD)	mm	950×50×950					
	Packing (WxHxD)	mm	1035×89×1035					
	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	840×300×840			
	Packing (WxHxD)	mm	955×330×955			
	Net/Gross weight	kg	28.7/34.1			30.9/36.3
Panel	Dimension (WxHxD)	mm	950×50×950			
	Packing (WxHxD)	mm	1035×89×1035			
	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:
1. Indoor temperature 27℃ DB, 19℃ WB; outdoor temperature 35℃ DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20℃ DB; outdoor temperature 7℃ DB, 6℃ 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.

Medium Static Pressure Duct

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

Key Features

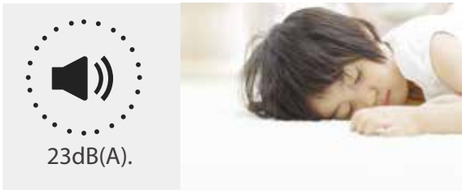
Medium Static Pressure Duct		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	● ○ (G3-class)	● ○ (G3-class)
	Innovative puro-air kit	●	●
	Fresh air intake	●	●
	Dirty filters indicator signal	●	●
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

COMFORT

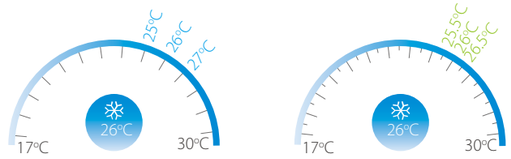
Quiet Operation

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.



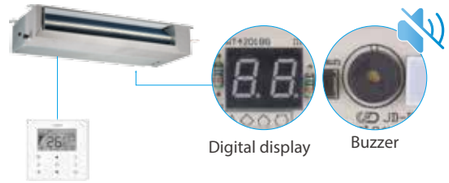
0.5°C/1°C Setting Temperature Adjustment

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.



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

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

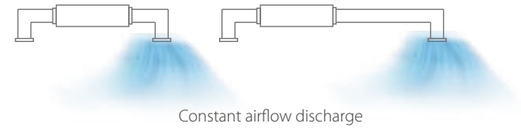
Ozone –Free
UV leakage-Free

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

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.

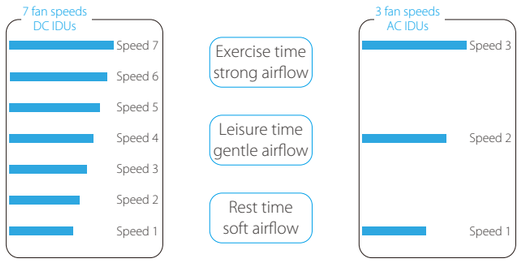


Constant airflow discharge

10 steps static pressure control

Multiple Fan Speeds

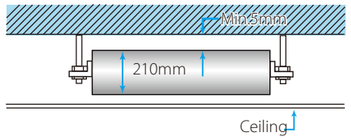
The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



EASY INSTALLATION

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.

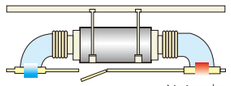


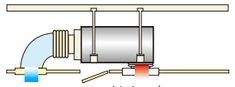
Stylish Air Discharge Panel

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

Flexible Air Inlet Port Installation

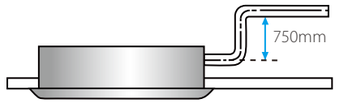
To provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the underside or the rear of the unit.





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
		kBtu/h	7.5	9.6	12.3
	Power input	W	40	40	45
Heating[2]	Capacity	kW	2.6	3.2	4.0
		kBtu/h	8.2	10.9	13.6
	Power input	W	40	40	45
Airflow rate[3]		m^3/h	520/480/440/400/360/330/300		580/540/500/460/430/400/370
External static pressure		Pa	10 (0~70)		
Sound pressure level[4]		dB(A)	32/31/29/28/26/25/23		33/32/31/30/28/27/25
Indoor unit	Net dimensions[5] (WxHxD)	mm	780×210×500		
	Packed dimensions (WxHxD)	mm	870×285×525		
	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
		kBtu/h	15.4	19.1	24.2
	Power input	W	92	92	98
Heating[2]	Capacity	kW	5.0	6.3	8.0
		kBtu/h	17.1	21.5	27.3
	Power input	W	92	92	98
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	1000×210×500		1220×210×500
	Packed dimensions (WxHxD)	mm	1090x285x525		1335×285×525
	Net/Gross weight	kg	21.5/25		25.7/30.2
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
		kBtu/h	27.3	30.7	38.2	47.8	54.6
	Power input	W	110	120	200	250	250
Heating[2]	Capacity	kW	9.0	10.0	12.5	15.5	18.0
		kBtu/h	30.7	34.1	42.7	52.9	61.4
	Power input	W	110	120	200	250	250
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)			40 (30~150)	
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	1230×270×775			1290×300×865	1490×300×865
	Packed dimensions (WxHxD)	mm	1355×355×795			1400×375×925	1605×345×955
	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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).
   Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

All specifications are measured at standard external static pressure.

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
		kBtu/h	7.5	9.6	12.3
	Power input	W	45	45	45
Heating[2]	Capacity	kW	2.6	3.2	4.0
		kBtu/h	8.2	10.9	13.6
	Power input	W	45	45	45
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	870×285×525		
	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
		kBtu/h	15.4	19.1	24.2	30.7
	Power input	W	97	97	103	150
Heating[2]	Capacity	kW	5.0	6.3	8.0	10.0
		kBtu/h	17.1	21.5	27.3	34.1
	Power input	W	97	97	103	150
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		1230×270×775	
	Packed dimensions (WxHxD)	mm	1145x355x705		1355×350×795	
	Net/Gross weight	kg	29/34		36.5/44.5	37/45
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
		kBtu/h	38.2	47.8	54.6
	Power input	W	205	260	250
Heating[2]	Capacity	kW	12.5	15.5	18.0
		kBtu/h	42.7	52.9	61.4
	Power input	W	205	260	250
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		1490x300x865
	Packed dimensions (WxHxD)	mm	1400x375x925		1605×345×955
	Net/Gross weight	kg	46.5/55.5		54/63
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/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. 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.

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	870×285×525			1115×285×525	
	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	1230×270×775			1290×300×865
	Packing (WxHxD)	mm	1335x285x525	1355×350×795			1400×375×925
	Net/Gross weight	kg	27.5/31	37.5/43	37.5/43	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:
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.

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	870×285×525			1115×285×525	
	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	1230×270×775			1290×300×865
	Packing (WxHxD)	mm	1335×285×525	1355×350×795			1400×375×925
	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:
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.

High Static Pressure Duct

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

Key Features

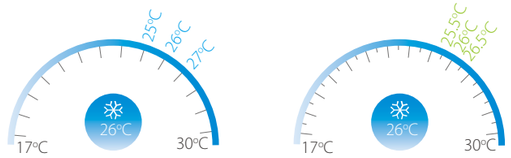
High Static Pressure Duct		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	● ○ (G3-class)	● ○ (G3-class)
	Innovative puro-air kit	○	○
	Dirty filters indicator signal	●	●
Air flow	Adjustable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

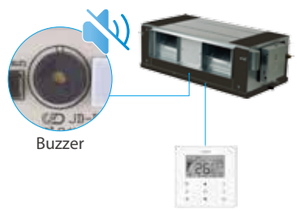


Digital Display On/Off

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.



Optional G3-class Air Filter

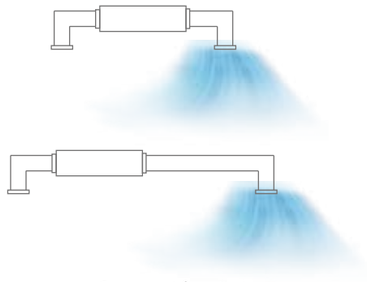
G3-class filter is optional for High Static Pressure Duct installation. Filtering effect of the G3-class filter reaches up to 80%-90% against coarse dust (particle size > 10 μm), creating a cleaner living environment.

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.

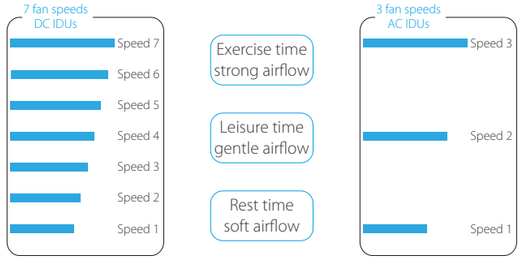


Constant airflow discharge

20 steps static pressure control

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.



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

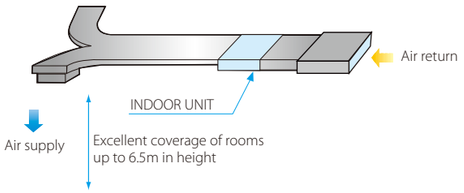
Ozone –Free
UV leakage-Free

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

EASY INSTALLATION

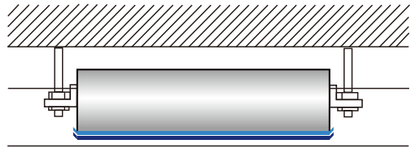
Flexible Duct Design

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
	Power input	W	180	180	220	380
Heating[2]	Capacity	kW	8.0	9.0	10.0	12.5
		kBtu/h	27.3	30.7	34.1	42.7
	Power input	W	180	180	220	380
Airflow rate[3]		m^3/h	1360/1327/1293/1260 /1227/1193/1160		1420/1373/1327/1280 /1233/1187/1140	1870/1783/1697/1610 /1523/1437/1350
External static pressure		Pa	100 (30~ 200)			
Sound pressure level[4]		dB(A)	42/41/40/40/39/39/38		45/44/43/42/41/40/39	48/47/46/45/43/42/41
Indoor unit	Net dimensions[5](WxHxD)	mm	965×423×690			
	Packed dimensions(WxHxD)	mm	1090×440×768			
	Net/Gross weight	kg	41/47		48/55	48/55
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9			
	Drain pipe	mm	OD Φ25			

Model			MI2-140T1DHN1	MI2-160T1DHN1	MI2-200T1DHN1	MI2-250T1DHN1
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	14.0	16.0	20.0	25.0
		kBtu/h	47.8	54.6	68.2	85.3
	Power input	W	420	700	990	1200
Heating[2]	Capacity	kW	16.0	17.0	22.5	26.0
		kBtu/h	54.6	58.0	76.8	88.7
	Power input	W	420	700	990	1200
Airflow rate[3]		m^3/h	2240/2133/2027/1920 /1813/1707/1600	2660/2530/2400/2270 /2140/2010/1880	4330/4230/4130/4030 /3930/3830/3730	
External static pressure		Pa	100 (30~ 200)		170(20~250)	
Sound pressure level[4]		dB(A)	45/44/43/42/41/40/40	46/45/44/43/42/41/40	51/50/50/49/49/48/47	
Indoor unit	Net dimensions[5](WxHxD)	mm	1322×423×691		1454×515×931	
	Packed dimensions(WxHxD)	mm	1436×450×768		1509×550×990	
	Net/Gross weight	kg	68/76		130/142	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		Φ12.7/Φ22.2	
	Drain pipe	mm	OD Φ25		OD Φ32	

Model			MI2-280T1DHN1	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
	Power input	W	1200	1800	1800	2272
Heating[2]	Capacity	kW	31.5	45.0	56.0	63.0
		kBtu/h	107.5	153.6	191.1	215.0
	Power input	W	1200	1800	1800	2272
Airflow rate[3]		m^3/h	4330/4230/4130/4030 /3930/3830/3730	6500/6150/5800/5450 /5100/4750/4400		7400/7000/6600/6200 /5800/5400/5000
External static pressure		Pa	170(20~250)	300(100~400)		300(100~400)
Sound pressure level[4]		dB(A)	51/50/49/49/48/48/47	60/59/58/57/55/54/52		59/58/57/56/55/53/51
Indoor unit	Net dimensions[5](WxHxD)	mm	1454×515×931	2010×680×905		2010×680×905
	Packed dimensions(WxHxD)	mm	1509×550×990	2095×800×964		2095×800×964
	Net/Gross weight	kg	130/142	220/245		218/248
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2	Φ15.9/Φ28.6		Φ15.9/Φ28.6
	Drain pipe	mm	OD Φ32			

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

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	1361/1285/1217/1175	1801/1687/1643/1431	2063/1939/1716/1533	2965/2561/2207/1905	3417/2875/2587/2383
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)	48/46/44/43	48/46/45/43	52/49/47/45	52/49/47/46	53/50/48/46	54/52/50/48
Indoor unit	Dimension[4] (WxHxD)	mm	965×423×690				1322×423×691	
	Packing (WxHxD)	mm	1090×440×768				1436×450×768	
	Net/Gross weight	kg	45/50	45/50	46.5/52.4	48/53	67/73	67/73
Piping connections	Liquid pipe	mm	Φ9.53					
	Gas pipe	mm	Φ15.9					
	Drain pipe	mm	OD Φ25					

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			3		
Refrigerant type			R410A					
Airflow rate (SH/H/M/L)		m^3/h	4600/3765/2900/2100			7500/5800/4310/3090	7500/5800/4310/3090	8400/5859/4300/3100
External static pressure (Std(Min~Max))		Pa	250(50~300)			300(50~400)		
Sound pressure level (SH/H/M/L)[3]		dB(A)	57/56/52/47			60/58/54/49	60/58/54/49	61/56/51/46
Indoor unit	Dimension[4] (WxHxD)	mm	1454×515×931			2010×680×905		
	Packing (WxHxD)	mm	1509×550×990			2095×800×964		
	Net/Gross weight	kg	124/135			202/233	202/233	202/233
Piping 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.

Specifications - AC Series

60Hz Series

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	965×423×690				1322×423×691	
	Packing (WxHxD)	mm	1090×440×768				1436×450×768	
	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	1454×515×931			2010×680×905		
	Packing (WxHxD)	mm	1509×550×990			2095×800×964		
	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

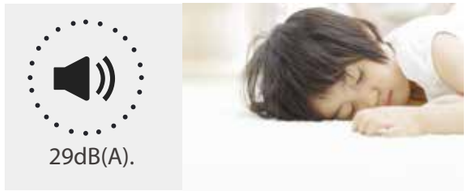
Wall Mounted		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	●	●
	Dirty filters indicator signal	●	●
Air flow	Multiple fan speeds	7+auto	7+auto
	Multiple steps vertical swing	5+auto	5+auto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

Note:
●: equipped as standard

COMFORT

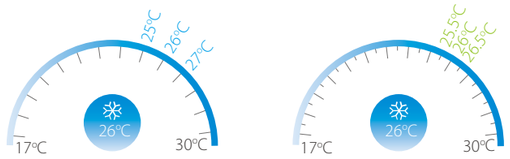
Quiet Operation

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



0.5℃/1℃ Setting Temperature Adjustment

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



Digital Display On/Off

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

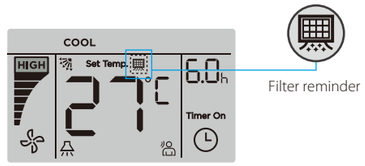
Buzzer Sound On/Off

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

HEALTH

Dirty Filters Indicator Signal

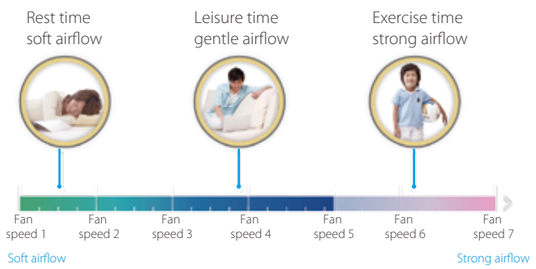
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

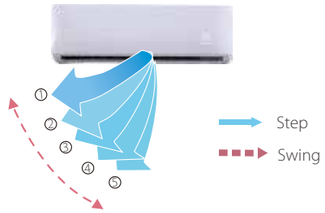
Multiple Fan Speeds

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.



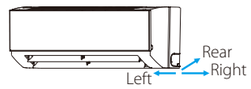
EASY INSTALLATION

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
	Power input	W	28	28
Heating[2]	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
	Power input	W	28	28
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	835×280×203	
	Packed dimensions (WxHxD)	mm	935×385×320	
	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
	Power input	W	30	40	45
Heating[2]	Capacity	kW	4.0	5.0	6.3
		kBtu/h	13.6	17.1	21.5
	Power input	W	30	40	45
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	990×315×223		
	Packed dimensions (WxHxD)	mm	1085×420×335		
	Net/Gross weight	kg	11.4/15.5	12.8/16.9	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ16		

Model			MI2-71GDHN1	MI2-80GDHN1	MI2-90GDHN1
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	7.1	8.0	9.0
		kBtu/h	24.2	27.3	30.7
	Power input	W	55	55	82
Heating[2]	Capacity	kW	8.0	9.0	10.0
		kBtu/h	27.3	30.7	34.1
	Power input	W	55	55	82
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	1194×343×262		
	Packed dimensions (WxHxD)	mm	1290×375×460		
	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	835×280×203			990×315×223
	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	990×315×223	1194×343×262		
	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:
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

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	835×280×203			990×315×223
	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	990×315×223	1194×343×262		
	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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).
   Sound pressure level is measured 1m in front and 1m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Ceiling & Floor

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

Key Features

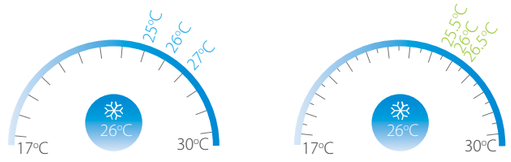
Ceiling & Floor		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5℃/1℃ setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	●	●
	Dirty filters indicator signal	●	●
Air flow	Multiple fan speeds	7+auto	3+auto
	Multiple steps vertical swing	5+auto	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℃/1℃ Setting Temperature Adjustment

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



Digital Display On/Off

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

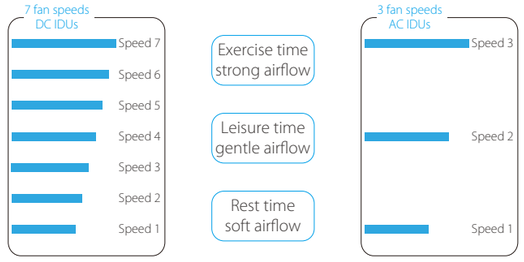
Buzzer Sound On/Off

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

AIR FLOW

Multiple Fan Speeds

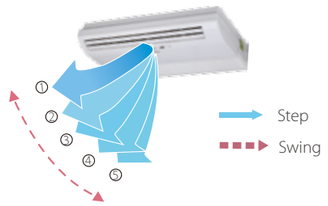
The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



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.

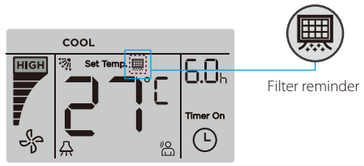
Horizontal & Ver tical



HEALTH

Dirty Filters Indicator Signal

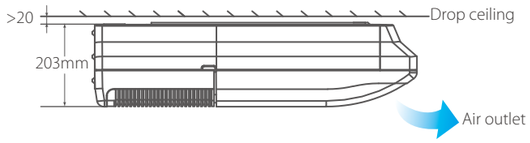
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



EASY INSTALLATION

Pure White Stylish Panel with Slim Design

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

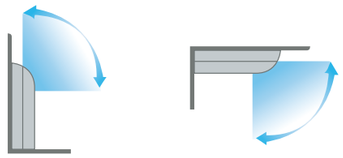


Exposed Installation, Easy Installation and Maintenance

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	990×660×203			
	Packed dimensions (WxHxD)	mm	1089×744×296			
	Net/Gross weight	kg	27/33	28/34		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ16			

Model			MI2-80DLDHN1	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	1280×660×203		1670×680×244		
	Packed dimensions (WxHxD)	mm	1379×744×296		1915×760×330		
	Net/Gross weight	kg	35/41		48/58		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9				
	Drain pipe	mm	OD Φ16				

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

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	990×203×660			
	Packing (WxHxD)	mm	1089×296×744			
	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	1280×203×660		1670×244×680	
	Packing (WxHxD)	mm	1379×296×744		1764×329×760	
	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:
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.

Specifications - AC Series

60Hz Series

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[4] (WxHxD)	mm	990×203×660			
	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[4] (WxHxD)	mm	1280×203×660		1670 x244x680	
	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 unit with multi casing options can be installed quickly and easily in new or existing facilities in a variety of applications.

Key Features

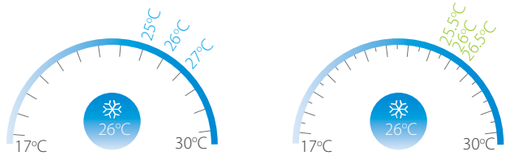
Floor Standing		DC Series
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Air filter	●
	Dirty filters indicator signal	●
Air flow	Adjustable ESP	10-steps
	Multiple fan speeds	7+auto
Easy installation	Pure white stylish panel 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.

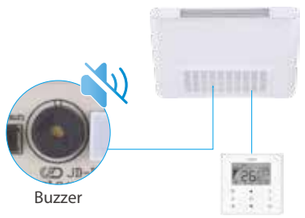


Digital Display On/Off

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

Buzzer Sound On/Off

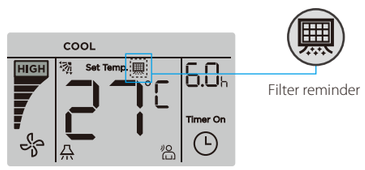
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Dirty Filters Indicator Signal

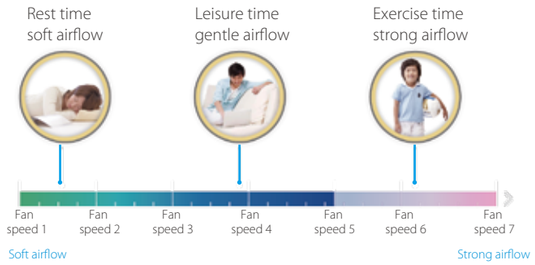
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



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 name			MI2-22F3DHN1(A)	MI2-28F3DHN1(A)
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	2.2	2.8
	Power input	W	35	35
Heating[2]	Capacity	kW	2.4	3.2
	Power input	W	35	35
External static pressure		Pa	0~60	
Air flow rate		m^3/h	473/464/454/449/439/431/426	473/464/454/449/439/431/426
Sound pressure level[3]		dB(A)	36/35/34/33/31/30/29	36/35/34/33/31/30/29
Indoor unit	Net dimensions (W×H×D)	mm	915×470×200	915×470×200
	Packed dimensions (W×H×D)	mm	985×555×255	985×555×255
	Net/Gross weight	kg	17.7/21.4	17.7/21.4
Refrigerant type			R410A	
Pipe connections	Liquid/Gas side	mm	Φ6.4/Φ12.7	Φ6.4/Φ12.7
	Drain piping	mm	Φ18.5	Φ18.5

Model name			MI2-36F3DHN1(A)	MI2-45F3DHN1(A)
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	3.6	4.5
	Power input	W	40	44
Heating[2]	Capacity	kW	4	5
	Power input	W	41	46
External static pressure		Pa	0~60	
Air flow rate		m^3/h	524/503/488/471/450/427/408	636/611/584/557/533/507/483
Sound pressure level[3]		dB(A)	37/36/35/34/32/31/30	37/36/35/34/32/31/30
Indoor unit	Net dimensions (W×H×D)	mm	915×470×200	1133×470×200
	Packed dimensions (W×H×D)	mm	985×555×255	1205×555×255
	Net/Gross weight	kg	18.3/22.1	21.4/25.8
Refrigerant type			R410A	
Pipe connections	Liquid/Gas side	mm	Φ6.4/Φ12.7	Φ6.4/Φ12.7
	Drain piping	mm	Φ18.5	Φ18.5

Model name			MI2-56F3DHN1(A)	MI2-71F3DHN1(A)	MI2-80F3DHN1(A)
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	5.6	7.1	8
	Power input	W	45	53	62
Heating[2]	Capacity	kW	6.3	8	9
	Power input	W	47	57	64
External static pressure		Pa	0~60		
Air flow rate		m^3/h	781/756/738/717/683/651/624	928/893/865/834/803/770/739	928/893/865/834/803/770/739
Sound pressure level[3]		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 (W×H×D)	mm	1253×566×200	1253×566×200	1253×566×200
	Packed dimensions (W×H×D)	mm	1325×650×255	1325×650×255	1325×650×255
	Net/Gross weight	kg	25.5/31.2	27.3/33.0	27.3/33.0
Refrigerant type			R410A		
Pipe connections	Liquid/Gas side	mm	Φ6.4/Φ12.7	Φ9.5/Φ15.9	Φ9.5/Φ15.9
	Drain piping	mm	Φ18.5	Φ18.5	Φ18.5

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. Fan motor speed and air flow rate are from the highest to the lowest, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured at 1m in front of the unit and at a height of 1.5m in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications - DC Series

Exposed

Model name			MI2-22F4DHN1(A) MI2-22F5DHN1(A)	MI2-28F4DHN1(A) MI2-28F5DHN1(A)
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	2.2	2.8
	Power input	W	35	35
Heating[2]	Capacity	kW	2.4	3.2
	Power input	W	35	35
External static pressure		Pa (F4)	0-10	
		Pa (F5)	0-10	
Air flow rate		m^3/h	507/490/482/466/449/450/435	507/490/482/466/449/450/435
		m^3/h	498/486/475/464/453/441/430	498/486/475/464/453/441/430
Sound pressure level[3]		dB(A)(F4)	39/38/37/37/36/36/35	39/38/37/37/36/36/35
		dB(A)(F5)	37/37/36/36/36/35/35	37/37/36/36/36/35/35
Unit	Net dimensions (W×H×D)	mm (F4)	1020×495×200	1020×495×200
		mm (F5)	1020×495×200	1020×495×200
	Packed dimensions (W×H×D)	mm (F4)	1125×595×285	1125×595×285
		mm (F5)	1125×595×285	1125×595×285
	Net/Gross weight	kg (F4)	22.5/29.3	22.5/29.3
		kg (F5)	22.5/28.2	22.5/28.2
Refrigerant type			R410A	
Pipe connections	Liquid/Gas side	mm	Φ6.4/Φ12.7	Φ6.4/Φ12.7
	Drain piping	mm	Φ18.5	Φ18.5

Model name			MI2-36F4DHN1(A) MI2-36F5DHN1(A)	MI2-45F4DHN1(A) MI2-45F5DHN1(A)
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	3.6	4.5
	Power input	W	40	44
Heating[2]	Capacity	kW	4	5
	Power input	W	41	46
External static pressure		Pa (F4)	0-10	
		Pa (F5)	0-10	
Air flow rate		m^3/h	532/512/501/483/466/435/414	689/663/639/608/575/560/526
		m^3/h	508/491/474/458/441/424/407	692/665/637/610/582/555/528
Sound pressure level[3]		dB(A)(F4)	39/39/38/37/35/34/33	44/43/42/41/40/39/37
		dB(A)(F5)	38/38/37/36/36/35/34	41/40/39/38/37/36/35
Unit	Net dimensions (W×H×D)	mm (F4)	1020×495×200	1240×495×200
		mm (F5)	1020×495×200	1240×495×200
	Packed dimensions (W×H×D)	mm (F4)	1125×595×285	1345×595×285
		mm (F5)	1125×595×285	1345×595×285
	Net/Gross weight	kg (F4)	23.3/30.0	27.7/34.3
		kg (F5)	23.3/29.0	27.7/33.8
Refrigerant type			R410A	
Pipe connections	Liquid/Gas side	mm	Φ6.4/Φ12.7	Φ6.4/Φ12.7
	Drain piping	mm	Φ18.5	Φ18.5

Model name			MI2-56F4DHN1(A) MI2-56F5DHN1(A)	MI2-71F4DHN1(A) MI2-71F5DHN1(A)	MI2-80F4DHN1(A) MI2-80F5DHN1(A)
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	5.6	7.1	8
	Power input	W	45	53	62
Heating[2]	Capacity	kW	6.3	8	9
	Power input	W	47	57	64
External static pressure		Pa (F4)	0-10		
		Pa (F5)	0-10		
Air flow rate		m^3/h	934/904/888/860/821/786/7	1054/1011/992/955/924/88	1054/1011/992/955/924/88
		m^3/h	811/785/759/732/706/680/6	930/895/860/825/790/755/7	930/895/860/825/790/755/7
Sound pressure level[3]		dB(A)(F4)	43/43/42/42/41/40/40	47/46/45/45/44/43/43	47/46/45/45/44/43/43
		dB(A)(F5)	39/38/38/38/37/37/36	41/40/40/39/38/38/37	41/40/40/39/38/38/37
Unit	Net dimensions (W×H×D)	mm (F4)	1360×591×200	1360×591×200	1360×591×200
		mm (F5)	1360×591×200	1360×591×200	1360×591×200
	Packed dimensions (W×H×D)	mm (F4)	1465×695×285	1465×695×285	1465×695×285
		mm (F5)	1465×695×285	1465×695×285	1465×695×285
	Net/Gross weight	kg (F4)	31.8/41.3	34.5/43.3	34.5/43.3
		kg (F5)	31.8/39.7	34.5/42.3	34.5/42.3
Refrigerant type			R410A		
Pipe connections	Liquid/Gas side	mm	Φ6.4/Φ12.7	Φ9.5/Φ15.9	Φ9.5/Φ15.9
	Drain piping	mm	Φ18.5	Φ18.5	Φ18.5

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. Fan motor speed and air flow rate are from the highest to the lowest, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured at 1m in front of the unit and at a height of 1.5m in a semi-anechoic chamber.
5. 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	●	●
	Buzzer sound on/off	●	●
Health	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	○	○

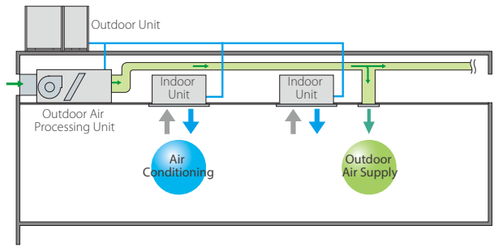
Note:
●: equipped as standard; ○: customization option;

COMFORT

100% Fresh Air Processing Unit

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

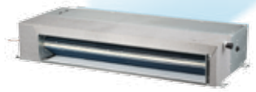
Indoor units and the Fresh Air Processing Unit can be connected to the same refrigerant system, increasing design flexibility and greatly reducing total system costs.



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

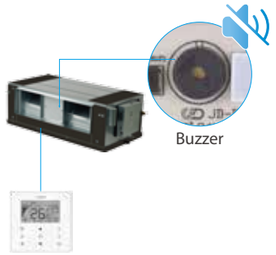
Digital Display On/Off

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

Digital display

Buzzer Sound On/Off

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



Buzzer

HEALTH

Optional G3-class Air Filter

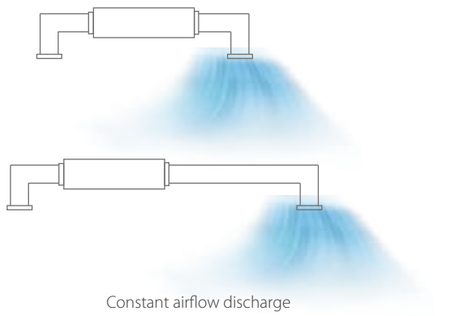
G3-class filter is optional for Fresh Air Processing Unit installation. Filtering effect of the G3-class filter reaches up to 80%-90% against coarse dust (particle size > 10 μm), creating a cleaner living environment.

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.



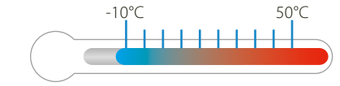
Constant airflow discharge

20 steps static pressure control

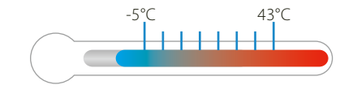
EASY INSTALLATION

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.



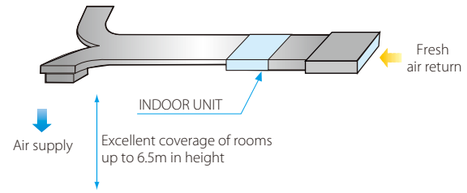
Small airflow unit special for tropical conditions



Large airflow unit special for standard conditions

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	1322×423×691		1454×515×931
	Packed dimensions (WxHxD)	mm	1436×450×768		1509×550×990
	Net/Gross weight	kg	68/76		130/142
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		Φ12.7/Φ22.2
	Drain pipe	mm	OD Φ25		OD Φ32
Operating temperature range		℃	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 large airflow)

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	1454×515×931		2010×680×905	2010×680×905
	Packed dimensions (WxHxD)	mm	1509×550×990		2095×800×964	2095×800×964
	Net/Gross weight	kg	130/142		195/215	218/248
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2		Φ15.9/Φ28.6	Φ15.9/Φ28.6
	Drain pipe	mm	OD Φ32			
Operating temperature range		℃	Heating: -5 to 16; Cooling: 20 to 43; Fan only: 16 to 20			

Notes:
1. Outdoor temperature 33℃ DB, 28℃ WB;equivalent refrigerant piping length 7.5m with zero level difference.
2. Outdoor temperature 0℃ DB, -2.9℃ 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	47/46/45/45/44/43/42
Indoor unit	Net dimensions (WxHxD)	mm	1150×457×970	1270×490×1100	
	Packed dimensions (WxHxD)	mm	1285×470×1095	1415×515×1235	
	Net/Gross weight	kg	67/80	81/97	
Pipe connections	Liquid/Gas pipe	mm	Φ9.5/Φ15.9	Φ12.7/Φ22.2	
	Drain pipe	mm	OD Φ25	OD Φ33	
Operating temperature range		℃	Heating: -10 to 16; Cooling: 20 to 50; Fan only: 5 to 43		

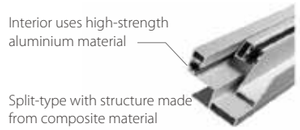
Notes:
1. Outdoor temperature 33℃ DB, 28℃ WB;equivalent refrigerant piping length 7.5m with zero level difference.
2. Outdoor temperature 0℃ DB, -2.9℃ WB;equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.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

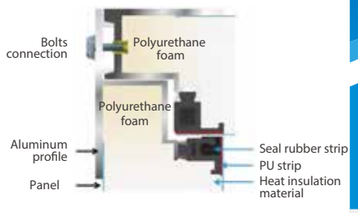
Midea DX Modular Air Handling Unit

Function Specifications

Function Section	Size (mm)	Features
Air inlet	Section length = 600	
Primary filter	Section length = 100	
Sub-Hepa filter	Standard bag length = 381, section length = 500	
DX coil	Section length = 600/800	
Electric heating	Section length = 300	
Electrostatic dedusting	Section length = 400	
Humidifying	/	
Fan	/	
High efficiency filter	Section length = 500	
Flow equalization	Section length = 700	
Noise reduction	Section length = 600	

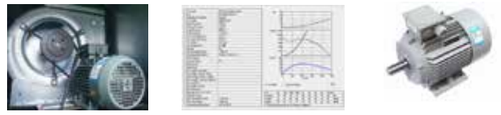
1. Patented chassis st ructure, with low air leakage and high strength





2. High performance heat exchanger

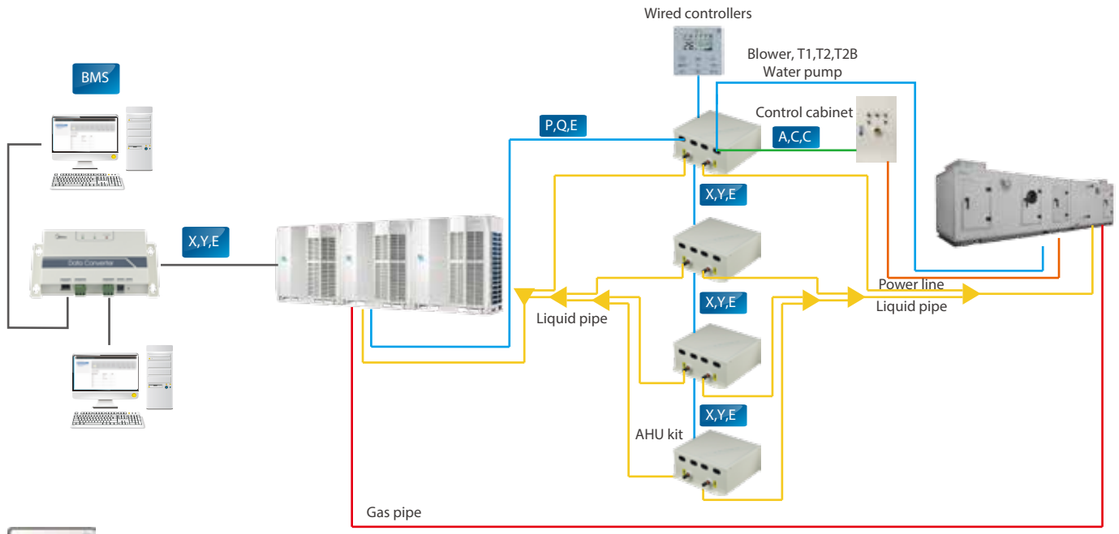
3. High efficiency centrifugal fan and high quality motor for optimal working point and efficiency of the fan



4. Inclining drain pan for quick condensate drainage

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.

Control System Customization

Features of control products			Constant temp. and humidity	Purifying	Fresh air pretreatment
Cooling and heating type			Cooling-only/Heat pump	Cooling-only/Heat pump	Cooling-only/Heat pump
Control object			Return air	Return air	Fresh air
Control accuracy	Temp.	Scope	17°C~26°C	17°C~26°C	/
		Accuracy	Cooling-only ±1°C / Heat pump ±2°C	±2°C	/
	Humidity	Scope	17°C~26°C	17°C~26°C	/
		Accuracy	±5%	±10%	/
Control cabinet	Master controller type		PLC or DDC	SCM	SCM
	Operating mode		Auto/Cool/ Heat/Fan	Auto/Cool/ Heat/Fan	Cool/Heat/ Fan
	Automatic on/off		Yes	Yes	Yes
	RS485 monitoring port		Yes	Yes	Yes
	ODU power supply circuit breaker		None	Yes	None
	Disinfection device		Optional	No	None
	Man-machine interface	Type	Resistance touchscreen	LCD wired controller	LCD wired controller
		Local touchscreen	7" (default)	None	None
		External touchscreen	None	No	None
	Monitoring dry contact	Remote start/stop	Yes	Yes	Yes (75HP and larger)
		Operating status indicator	Yes	Yes	None
		Fault status indicator	Yes	Yes	None
	Interlocked passive dry contact	Fire damper interlock	Yes	Yes	Yes
		Fire-fighting monitoring interlock	Yes	Yes	Yes
		Exhaust fan	Yes	Yes	No
		Wheel heat recovery interlock	Yes	No	No
		Wheel dehumidifier interlock	Yes	No	No
		Ozone disinfection	Yes	No	No
		UV disinfection	Yes	No	No
		Electrostatic precipitator	Yes	No	No
	Protection Functions	Air flow failure protection (Including differential pressure switch)	Yes	Yes	Yes
		Electric heater over-tem perature power-off protection	Yes	Yes	Yes (configured when unit with e-heater is available)
		Primary/Medium/High efficiency filter alarm (excluding differential pressure switch)	Yes	Yes	None
		Hot water coil anti-freezing switch	Optional	No	None
		Steam heating overheating protection	Optional	No	None
		Emergency stop button	Cabinet door	Cabinet door + AHU cabinet	None

Note:
The above listed are standard configurations for product control. For custom requirements, consult Midea.

Air cleaning option

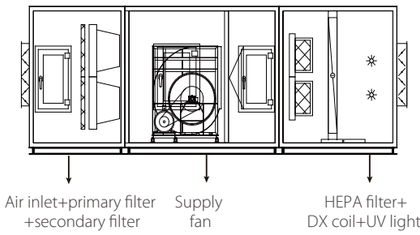
HEPA filter

UV lamp

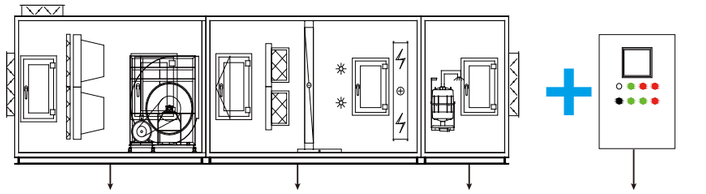
Photocatalyst filter

Electrostatic filte

Solution 1:
Applicable for all fresh air purposes for ordinary cases.



Solution 2:
Applicable for hospitals, clinics and temporary hospitals.



Type	Principle	Advantage
HEPA filter	Filter efficiency >99.99%	Large pressure loss
UV lamp	Principle of ultraviolet sterilization	High bactericidal properties
Photocatalyst filter	Photochemical decomposition and oxidation technology	High efficient way of sterilization and removal of gaseous pollutants and odour
Electrostatic filter	High voltage electrostatic adsorption	Highly efficient way of dust removal and sterilization

Function Selections

Name		Standard	Customized
Panel	Thickness	25mm	50mm
	Innet Skin	0.5mm,Galvanized Steel	Stainless Steel(Thickness:0.5/0.7/1.0), Pre-coated Steel(Thickness:0.5/1.0)
	Outer Skin	0.5mm,Pre-coated Steel	Stainless Steel(Thickness:0.5/0.7/1.0)
Coil	Fin Material	Aluminium	Hydrophilic AL
	Header Material	Seamless Steel Tube	Copper Tube
	Coil Frame	GI	SUS304
	Has Moisture Eliminator	×	AL Grid,AL,Stainless Steel
	Drain Pan Material	GL Spray	SUS304
	Steam Heater	Steel Pipe	Stainless Steel Pipe
	Accessories	×	UV Lamp,Flange components,Thermometer,Hygrothermograph,U Trap,
Motor	Motor Brand	BeiDe	WanNan,Siemens,WEG,ABB，Non-Standard Motor Brand
	Frequency Type	Single Speed	Variable Frequency Motor,Explosion-Proof Motor，EC motor, Double speed motor
	Efficiency	IE3	IE4
	Accessories	×	Belt guard，Winding protection，NSK/SKF bearing
Fan	Blower Brand	Yilida	Kruger,Wolter,Ebm-Papst EC Fan,Comefri Plug Fan,Aiehl-abegg Plug Fan,Non-Standard Blower Brand
	Blade Type	Forward Curved	Backward curved,Airfoil,Explosion-proof,Plug Fan
	Accessories	×	NSK/SKF bearing,Pressure Switch,Thermometer,Hygrothermograph,Star-delta starting ark,Frequency Converter,EC fan air flow controller,EC fan junction box,Inlet grid
Humidiffer	Humidifier Type	×	Evaporative Humidifier,Water Spray Humidifier,Water Mist Humidifier,Electrode Boiler Humidifier,Electrical Heating Element Humidifier,Dry Steam Humidifier,Water Spray,
	Accessories	×	UV lamp, Thermometer,Hygrothermograph,Humidity Transmitter
Filter	Filter Brand	×	G2~H14
	Filter Frame	G2~G4:AL,More thanF5:Galvanized Steel	AL
	Frame Material	Galvanized Steel	Stainless Steel
	Special filter	×	Chemical filter,UV lamp,Air Purifier,Photocatalyst filter
	Accessories	×	Manometer,Pressure Switch
Electric Heating	Heater Type	PTC	
	Accessories	×	Thermometer
Heat Recovery	Device type	×	Heat Wheel,Heat Plate,Heat pipe,
	Accessories	×	Pressure Switch,Thermometer
Silencer	Silencer Type	Resistance Type	Silencer Size:400mm,700mm,1000mm
controller	General customization	×	Direct Starting ark,Star-delta Starting Ark,Frequency Converter
	Non-standard custom	×	Constant temperature and humidity control cabinet,Constant temperature control cabinet,Humidity control cabinet,MBS,etc.
	Accessories	×	VSD,Water Valve
Others	Anti-corrosion customization	spray	SUS Fastener,Nano protective coating for coil
	Unit Base	Base Height:80mm	100mm,160mm,200mm
	Outdoor Location	×	Has Roof,Tuyere shutter
	Accessories	×	Lamp,Lamp Control Box,Inspection Window,GL Damper,AL Damper,Danper Handle

Parameters of Air-cooled DX Constant Temperature/Purifying Unit

Model	IDU air flow (m^3/h)		1400	2400	5000	6000	7500	10000	12000	15000	18500	23500	28000	34500
	IDU model (modulus)		0607	0608	0810	0813	1013	1115	1117	1218	1521	1622	1923	2026
System parameters	Rated cooling capacity (kW)		7.5	15	25.5	30	41	52	62	79	104	124	156	186
	Rated heating capacity (kW)		8	16	28.5	34.1	44	55	68	83	110	136	165	204
ODU	Compressor		Enhanced vapour injection DC inverter scroll compressor											
	Throttling mode		Electronic expansion valve											
Refrigerant	R410A charge amount (kg)		2.1	2.1×2	3.4×2	3.6×2	4.35×2	6.7×2	7.2×2	4.35×4	6.7×4	7.2×4	6.7×6	7.2×6
Connecting pipe	Connection methods		Welding or flaring connection											
	Dimension	Liquid pipe(mm)	Ø6.35	Ø6.35×2	Ø9.52×2	Ø9.52×2	Ø12.7×2	Ø12.7×2	Ø12.7×2	Ø12.7×4	Ø12.7×4	Ø12.7×4	Ø12.7×6	Ø12.7×6
		Gas pipe(mm)	Ø15.9	Ø15.9×2	Ø15.9×2	Ø15.9×2	Ø19.1×2	Ø22.2×2	Ø25.4×2	Ø19.1×4	Ø22.2×4	Ø25.4×4	Ø22.2×6	Ø25.4×6

Notes:
1. Rated cooling capacity is measured under nominal air flow conditions with an indoor dry bulb/wet bulb temperature of 24/17℃ and an outdoor dry bulb/wet bulb temperature of 35/24℃.
2. Rated heating capacity is measured under nominal air flow conditions with an indoor dry bulb/wet bulb temperature of 20/15℃ and an outdoor dry bulb/wet bulb temperature of 7/6℃.
3. Performance test for piping conditions: the equivalent refrigerant pipe is 7.5m long.
4. 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. Matched ODUs: VRF series such as V5 series, V6 series,. See the manual for specific ODU specifications.

Parameters of Air-cooled DX Fresh Air Handling Unit

Model	IDU air flow (m^3/h)		2450	3000	4000	5000	7000	8000	10000	14000
	IDU model (modulus)		0610	0711	0813	0814	1015	1017	1119	1319
System parameters	Rated cooling capacity (kW)		25.5	30	41	51	61	81	105	121
	Rated heating capacity (kW)		28.5	34.1	41.5	55	68	83	110	135
ODU	Compressor		Enhanced vapour injection DC inverter scroll compressor							
	Throttling mode		Electronic expansion valve							
Refrigerant	R410A charge amount (kg)		3.4×2	3.6×2	4.35×2	6.7×2	7.2×2	4.35×4	6.7×4	7.2×4
Connecting pipe	Connection methods		Welding or flaring connection							
	Dimension	Liquid pipe(mm)	Ø9.52×2	Ø9.52×2	Ø12.7×2	Ø12.7×2	Ø12.7×2	Ø12.7×4	Ø12.7×4	Ø12.7×4
		Gas pipe(mm)	Ø15.9×2	Ø15.9×2	Ø19.1×2	Ø22.2×2	Ø25.4×2	Ø19.1×4	Ø22.2×4	Ø25.4×4

Notes:
1. Rated cooling capacity is measured under nominal air flow conditions with an outdoor dry bulb/wet bulb temperature of 34/28°C.
2. Rated heating capacity is measured under nominal air flow conditions with an outdoor dry bulb/wet bulb temperature of 7/6℃ (no frost).
3. 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.
4. Operating temperature: cooling: 20℃ to 43℃; heating: -5℃ to +16℃.
5. Matched ODUs: VRF series such as V5 series, V6 series. See the manual for specific ODU specifications.

Heat Recovery Ventilator (HRV)

Wide Capacity Range

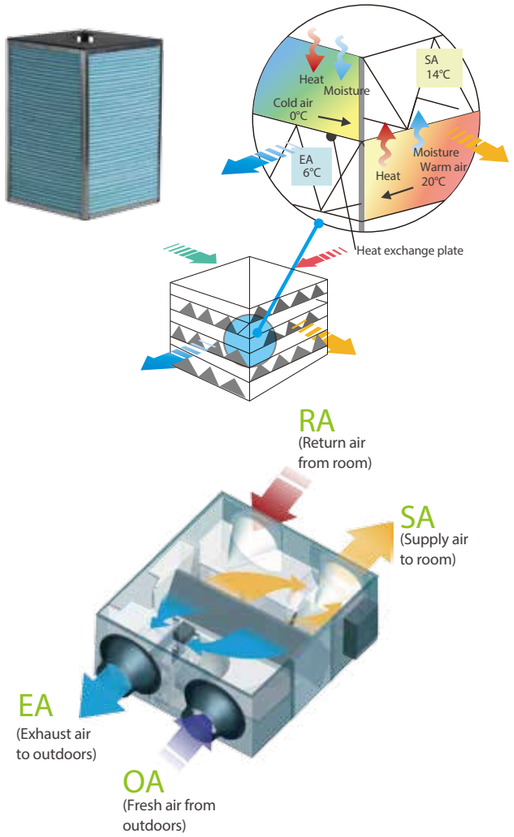
The HRV has AC Series and DC Series options. The airflow is from 200m³/h to 2000m³/h which can meet the requirements of most scenarios.

200/300/400/500/800/1000m³/h

1500/2000m³/h

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.

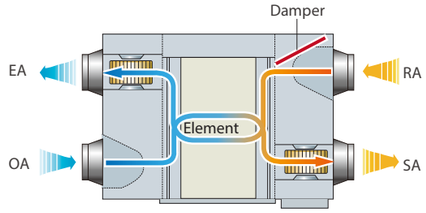


Multiple Operation Modes

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

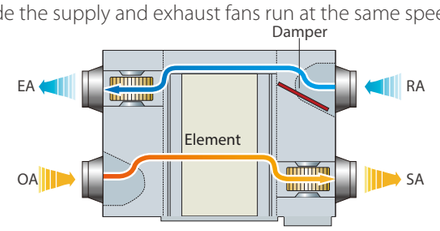
The flows of incoming and outgoing air pass close to each other, allowing heat transfer between the two channels. During summer, incoming air is cooled by the indoor air being exhausted and in winter, incoming air is warmed.



Heat exchange mode

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.



Bypass mode

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

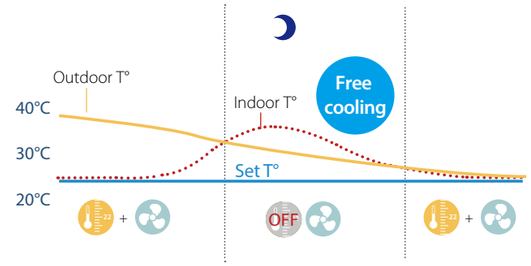
Exhaust mode is where the exhaust fan is set to run faster than the supply fan, which is useful in mild climate installations with large amounts of exhaust air to be expelled.

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

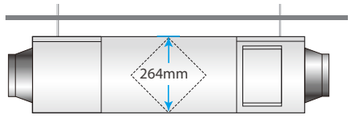
Standard Built-in G4-class dust filter, optional F7-class filter for air supply side and M5-class filter for exhaust air side in line with EU legislations can be customized.

F7-class filter

M5-class filter

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.

Wired controller
KJR-27B

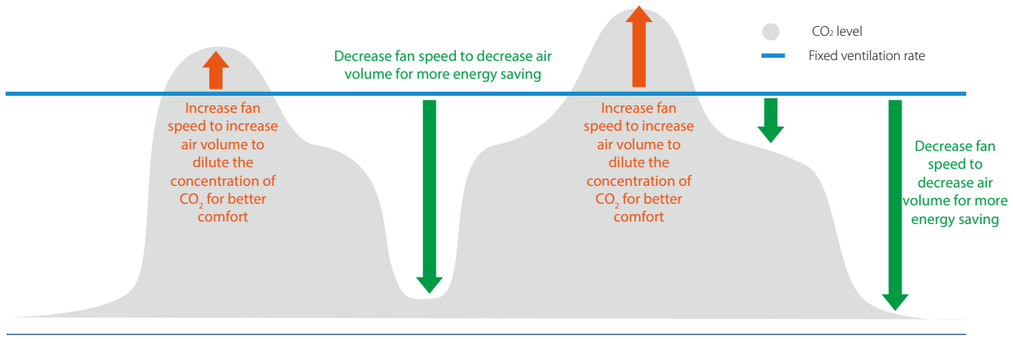
Wired controller
WDC-120G/WK(A)

BMS gateway

Centralized controller
CCM-270B/WS(A)

CO_2 Sensor Option

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore, an optional CO_2 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	1195×801×272	1195×914×272	1276×1204×272	1311×1106×390
Packed dimensions (WxDxH)	mm	1275×880×420	1275×994×420	1360×1284×420	1390×1244×540
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	℃	-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	1311×1286×390	1311×1526×390	1740×1375×615	1811×1575×685
Packed dimensions (WxDxH)	mm	1390×1424×540	1390×1670×540	1830×1520×770	1900×1720×845
Net/Gross weight	kg	80/104	90/112	181.5/213	208.5/245
Duct diameter	mm	Φ244	Φ244	346×326	346×326
Operating temperature range	℃	-7 to 43 DB, RH 80% or lower			

Note:
1. For the units model of HRV-D200(B)~HRV-D2000(B), there are 3-speed adjustable air-volume (Hi, Med, Low).
2. 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	866×655×264	944×722×270	944×927×270	1038×1026×270
Packed dimensions (WxDxH)	mm	960×770×445	1020×810×452	1020×1020×452	1120×1120×452
Net weight	kg	23	26	31	41
Gross weight	kg	40	44	52	64
Operating temperature range	℃	-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	346×326	346×326
Net dimensions (WxDxH)	mm	1286×1006×388	1286×1256×388	1600×1270×540	1650×1470×540
Packed dimensions (WxDxH)	mm	1380×1100×573	1400×1370×573	1710×1410×720	1760×1610×720
Net weight	kg	62	79	163	182
Gross weight	kg	88	110	224	247
Operating temperature range	℃	-7 to 43 DB, RH 80% or lower			

Note:
1. 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.
2. Sound level is measured 1.4m below the center of the unit in an semi-anechoic chamber.
3. 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

Independently tested Intertek

CE

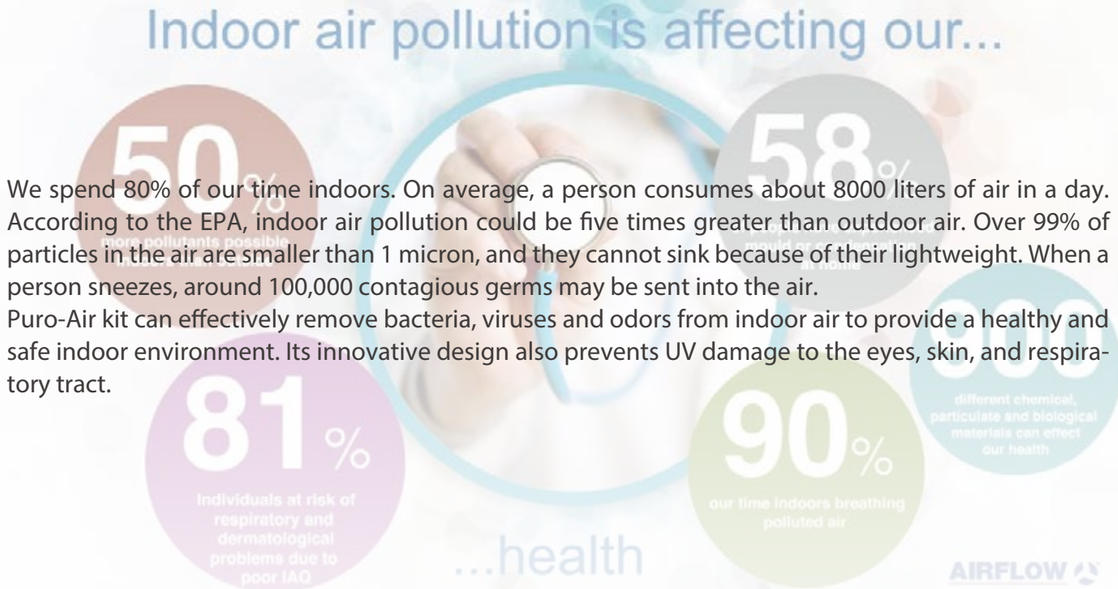
First Global Tick-mark Certification Of Purification Ac Products

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



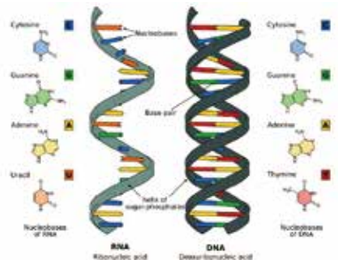
We spend 80% of our time indoors. On average, a person consumes about 8000 liters of air in a day. According to the EPA, indoor air pollution could be five times greater than outdoor air. Over 99% of particles in the air are smaller than 1 micron, and they cannot sink because of their lightweight. When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

ASHRAE

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



medRxiv THE PREPRINT SERVER FOR HEALTH SCIENCES

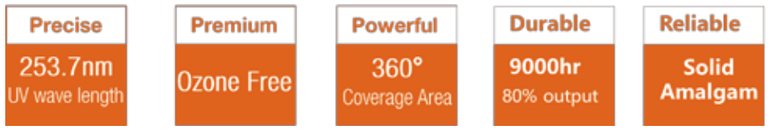
CSH Cold Spring Harbor Laboratory BMJ Yale

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

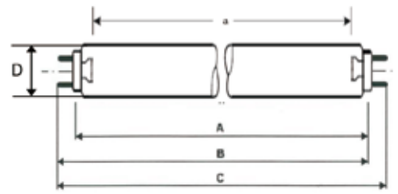
Features:

1. 2 models, power range from 60W to 120W
2. 2 UV lamps and 4 UV lamps are optional
3. Application air flow rate of 2 UV lamps model can be up to 2600 m3/h
4. Application air flow rate of 4 UV lamps model can be up to 4300 m3/h.
5. UVGI high efficient
6. Innovative structural design
7. Higher safty,Ozone-free and UV leakage-free
8. Flexibility Control
9. Higher reliability
10. 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
11. Be widely used in many scenes



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



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.

Geometric Data

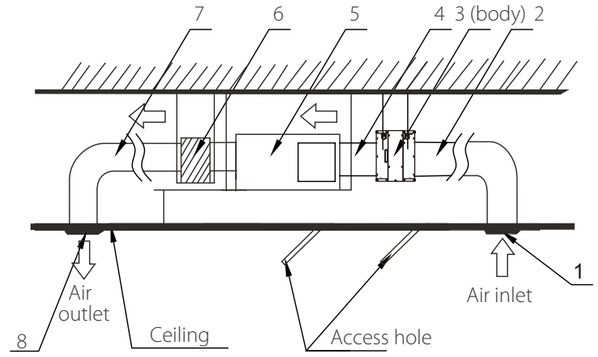
Face to Face	A max 894.3 mm
Face to end of opposite pin	B min 899.3 mm
Face to end of opposite pin	B max 901.7 mm
Overall length	C max 908.8 mm
Radiation length	a 824 ± 2 mm
Tube diameter	D max 25.5 ± 2 mm
Base G13	

Spectral Data

Radiation flux (254nm)	12.0 W
Initial UV-C irradiance	> 0.31 W/m2 @ 2 meter
Lifetime	9000 hrs
UV-C irradiance @ 9000hrs	> 0.24 W/m2 @ 2 meter

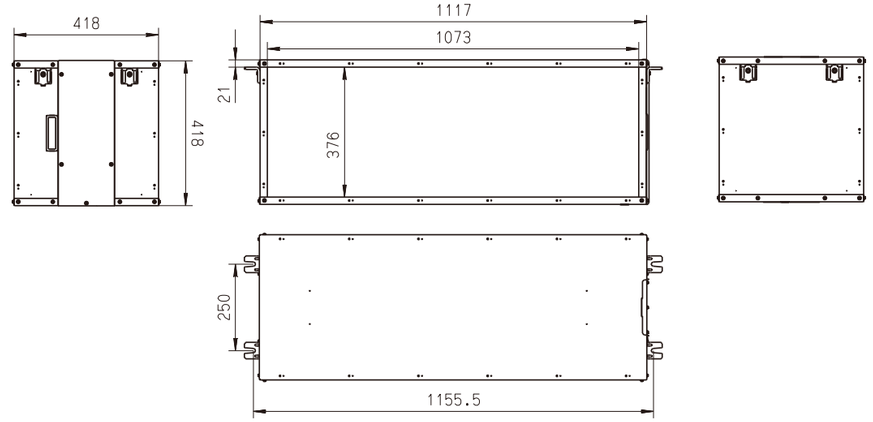
Air Duct Installation

1. The air inlet flange and air outlet flange are connected to air ducts, respectively.
2. Seal the connection parts of the flange and air duct with aluminum foil tape.
3. 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 V6/V6i/V6R/V4+I(10-12HP)/ Mini C

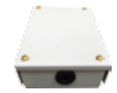
Wireless Remote Controllers	Wired Remote Controllers	Central Controllers Data converter		Network Control System	BMS Gateways	Accessories
 RM05B(A)	 WDC-86E/KD	 CCM-180A/BWS(A)		 IMMP-BAC(A)	 IMMP-BAC(A)	Hotel Key Card Interface Module  MA-HKCW  MA-HKCS
 RM12F	 WDC-120G/WK(A)	 CCM-210G/BWS  CCM-270B/WS(A)		+  IMMP-S(A)	 GW-LON(A)	Infrared Sensor Controller   MA-IS WiFi Kit  MA-WK
	 WDC-120G/WK(HTHM)	 CCM30/BKE-B(A)		 CCM-270B/WS(A)	 GW-MOD(A)	Diagnosis software  MCAC-DIAG-B(A)
		 CCM-15		+  IMMP-S(A)	 GW-KNX,GW-KNX(A)*	XYE Extension Kit  MA-EK IDU Online Kit  MCAC-PIDU

Note:
1. GW-KNX(A) is only used for High Temperature Hydro Module in V6R systems.
2. The diagnosis software is only compatible with V6/V6i outdoor unit.

CONTROLLER LINEUP for VC Pro

Wireless Remote	Wired Controllers	Central Controllers Data converter		Network Control System	BMS Gateways	Accessories
 RM12D(C)	 WDC-86E/KD	 CCM-180A/BWS(A)  CCM-210G/BWS  CCM-270B/WS(A)		 IMMP-BAC(A) +  IMMP-S(A)	 IMMP-BAC(A)	Hotel Key Card Interface Module  MA-HKCW  MA-HKCS
	 WDC-120G/WK(A)				 GW-LON(A)	Infrared Sensor Controller  MA-IS WiFi Kit  MA-WK
		 CCM30/BKE-B(A)		 CCM-270B/WS(A) +  IMMP-S(A)	 GW-MOD(A)	Diagnosis software  MCAC-DIAG-B(A)
		 CCM-15			 GW-KNX	XYE Extension Kit  MA-EK IDU Online Kit  MCAC-PIDU

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

Wireless Remote Controllers	Wired Remote Controllers	Central Controllers		Network Control System Data Converter	BMS Gateways	Accessories
 RM05B(A)	 WDC-86E/KD	 CCM-180A/BWS(A)		M-interface Gateway  + IMM Software 	  IMMP-BAC(A) GW-BAC(D)	Hotel Key Card Interface Module  MA-HKCW  MA-HKCS
 RM12F	 WDC-120G/WK(A)	 CCM-270B/WS(A)			 GW-LON(A)	Infrared Sensor Controller   MA-IS
		 MD-CCM09(A)		 CCM-15	Modbus Gateway  CCM-18A/N CCM-18A/N-U	Network Electricity Distribution Module (Special for Mini VRF)  MD-NIM10
		 CCM30/BKE-B			 GW-KNX	XYE Extension Kit  MA-EK Indoor Unit Online Kit  MCAC-PIDU

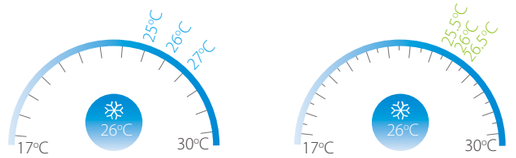
Features

Model	RM05B(A)	RM12F
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5℃ or 1℃ steps)	● (0.5℃ or 1℃ 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 (H×W×D) (mm)	150×65×20	170×48×20
Batteries	1.5V (LR03/AAA) × 2	
Indoor unit series	2nd 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.

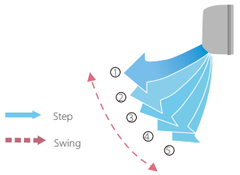


Digital Display On/Off

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.

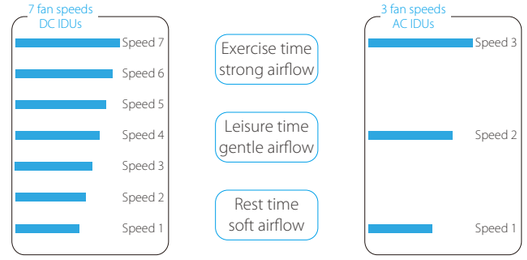


Follow Me

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℃ or 1℃ steps)	● (0.5℃ or 1℃ 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/℃ 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,Italian,German, Portuguese, Turkish
HRV control	×	●
Puro-Air Kit control	×	●
System setting control	●	●
Dimensions (WxHxD) (mm)	86x86x18	120x120x20
Power supply	18V DC	18V DC
Indoor unit series	2nd 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.

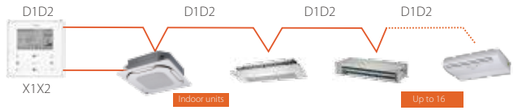
Features

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.

One indoor unit

Two or more indoor units

2 Permission Levels

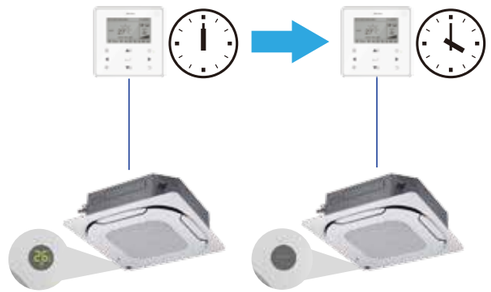
2 permission levels ensure users can easily access control functions and allow administrators convenient access to operating parameters.

Buzzer Sound On/Off

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

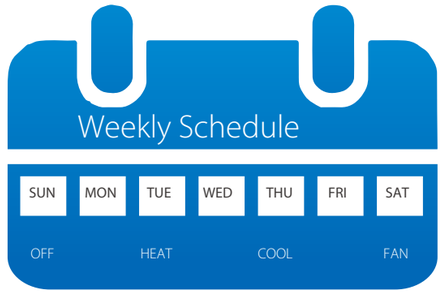
Off Timer Function

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



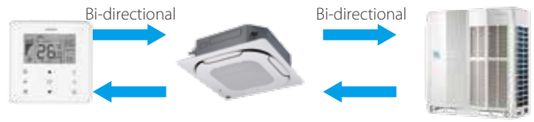
Weekly Schedule Timer

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 V6/V6i/VC pro/V6R/V4+I(10-12HP) outdoor unit connected to 2nd generation DC indoor unit.

Central Controllers

Features

Function	 CCM-180A/BWS(A)	 CCM-210G/BWS	 CCM-270B/WS(A)
Max. number of indoor units	64	64	384
Max. number of refrigerant systems	8	8	48
Touch screen	● (6.2-inch)	● (7-inch)	● (10.1-inch)
On/Off	●	●	●
Mode selection	●	●	●
Temperature setting	● (0.5℃ steps)*		
7-speed fan control	●*		
Auto swing	●	●	●
5-step swing louver*	●	●	●
Room temperature display	●	●	●
Holiday setting	●	●	●
℃/℉ 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	operation record	Error report and operation record
Operation log	×	×	●
LAN access	×	×	●
Language supported	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Russian, Korean	English, Chinese	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Russian, Korean
Dimensions (W×H×D)(mm)	182×123×34	174×111×26	270×183×27
Power supply	12V DC	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 V6/V6i/VCpro/V6R/V4+I(10-12HP), Mini C outdoor unit.

Features

Function	CCM30/BKE-B CCM30/BKE-B(A)	MD-CCM09(A)
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 (W×H×D) (mm)	179×119×74	179×119×74
Power supply	198-242V AC (50/60Hz)	
Outdoor unit series or indoor unit series	V6/VC Pro/V4+I(except 10/12HP)/V4+W/ Mini VRF- Standard Series ODU	V4+I(except 10/12HP)/V4+W/ Mini VRF- Standard Series ODU

Note:
●: equipped as standard; ×: without this function
*means this function is only available for V6/V6i/VC pro/V6R/V4+I(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
	Low static pressure and middle static pressure (L-DUCT/M-DUCT)		Vertical concealed installation/vertical surface mounting (FS)
	High static pressure (H-DUCT)		Four-way Cassette
	Purifier (FAPU)		Compact Four-way Cassette (COMPACT)
	Wall mounting (WALL)		Ceiling-floor type (C&F)
	Old IDU (1st Gen. IDU)		Two-way Cassette
	One-way Cassette		CONSOLE
	Group control device 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 V6/V6i/VC pro outdoor unit.

Schedule Management

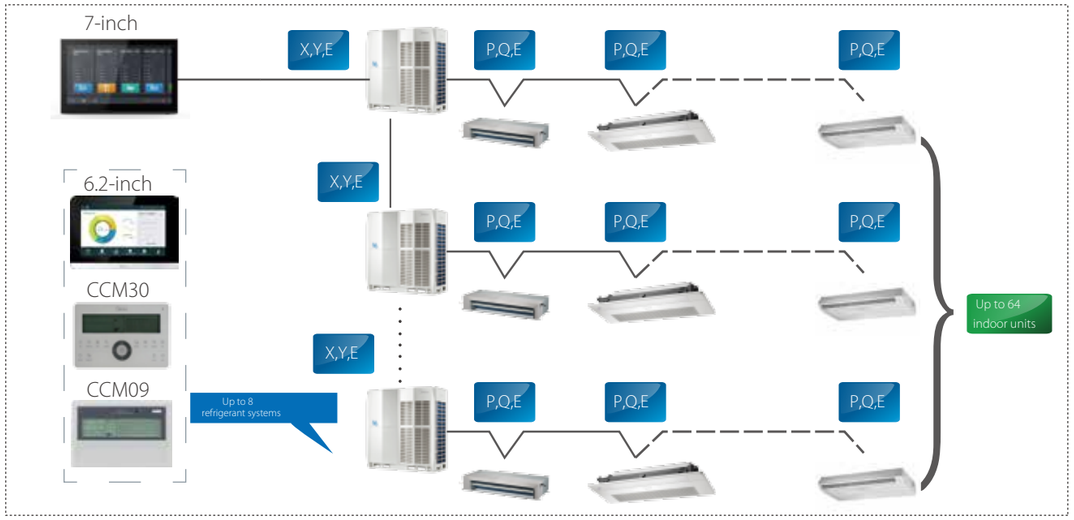
Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.

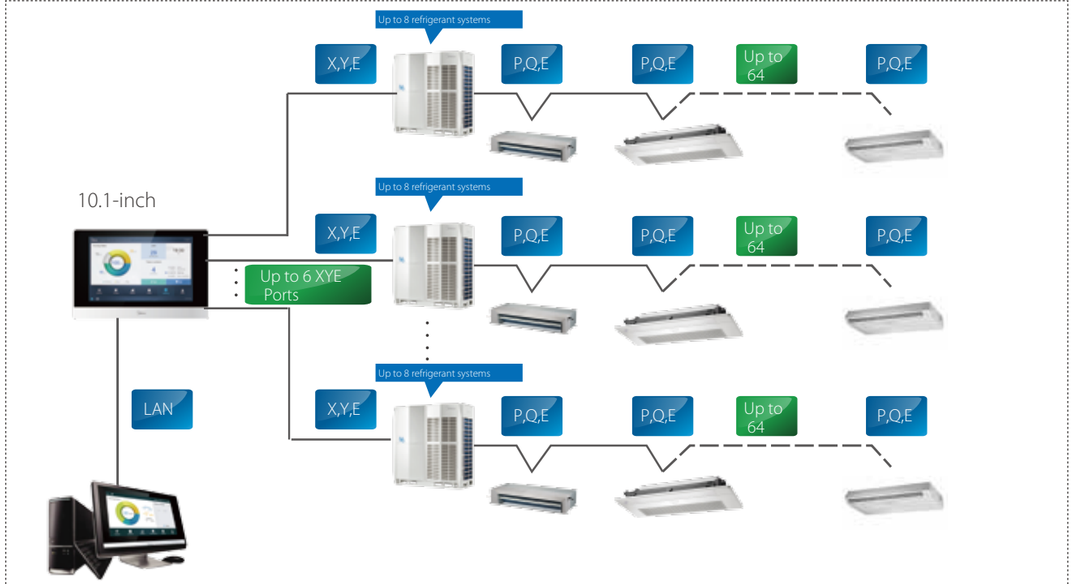
LAN Access

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

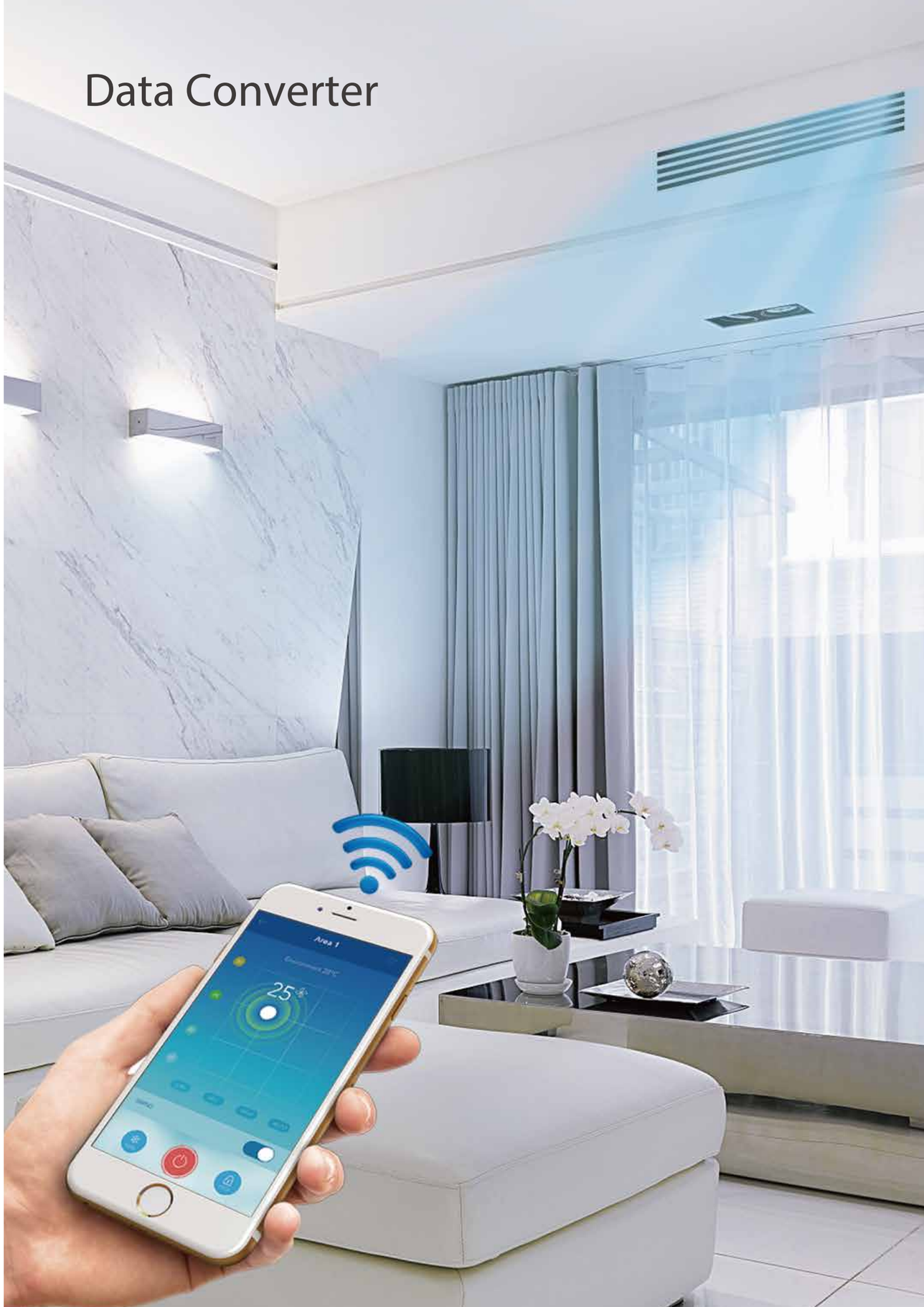
Wiring Flexibility

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





Data Converter



Features

Hardware model	 CCM-15	
Application scenarios	 Mobile Phone Application	 Cloud Server Website
Max. number of CCM-15 for one mobile APP	10	10
Max. number of indoor units	640	640
Max. number of refrigerant systems	80	80
On/Off	●	●
Mode selection	●	●
Temperature setting	● (1℃ steps)	● (1℃ steps)
7-speed fan control	×	×
Auto swing	●	●
5-step swing louver	×	×
Room temperature display	●	●
℃/℉ 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)	187×115×28	
Power supply	5V DC	
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.

User Friendly Interface

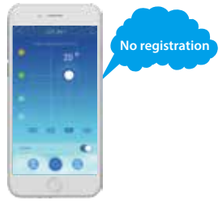
Clear, stylish interface designed by leading industrial designers.

Cloud Server Website

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

Virtual Experience

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



Easy Configuration

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

Convenient Operation

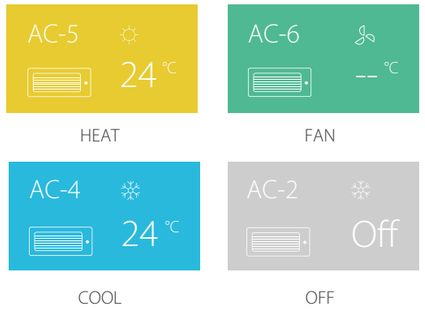
Drag the position of the floating bubbles to change temperature and fan speed.

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.



HEAT FAN

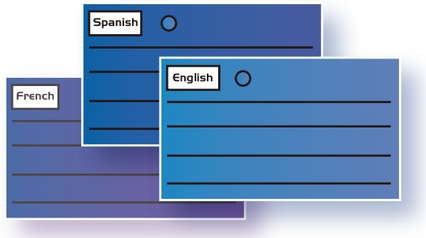
COOL OFF

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.

Multiple Language Options

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

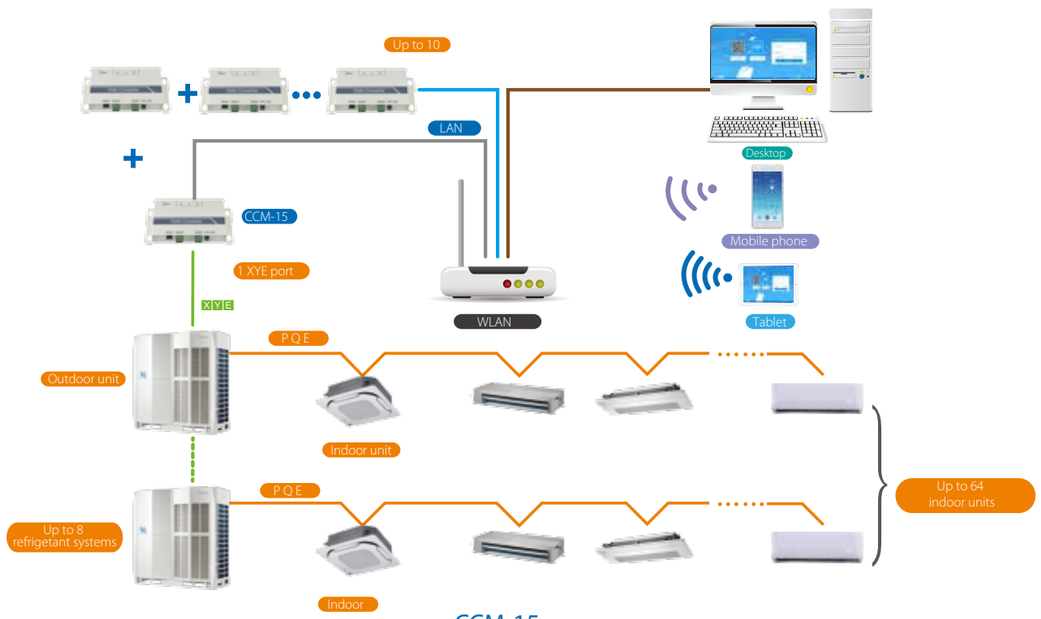


2 Permission Levels

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

Flexibility

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



CCM-15

Network Control System

Features

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℃ steps)	● (0.5℃ steps)	● (1℃ 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, Russian, Korean		9 languages
Dimensions (W×H×D) (mm)	251×319×61	270×183×27	251×319×66
Power supply	24V AC	24V AC	1 phase, 100-240V, 50/60Hz
Outdoor unit series	V6/V6i/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 V6/V6i/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 V6/V6i/VC pro outdoor unit.

Electricity Charge Distribution

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

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

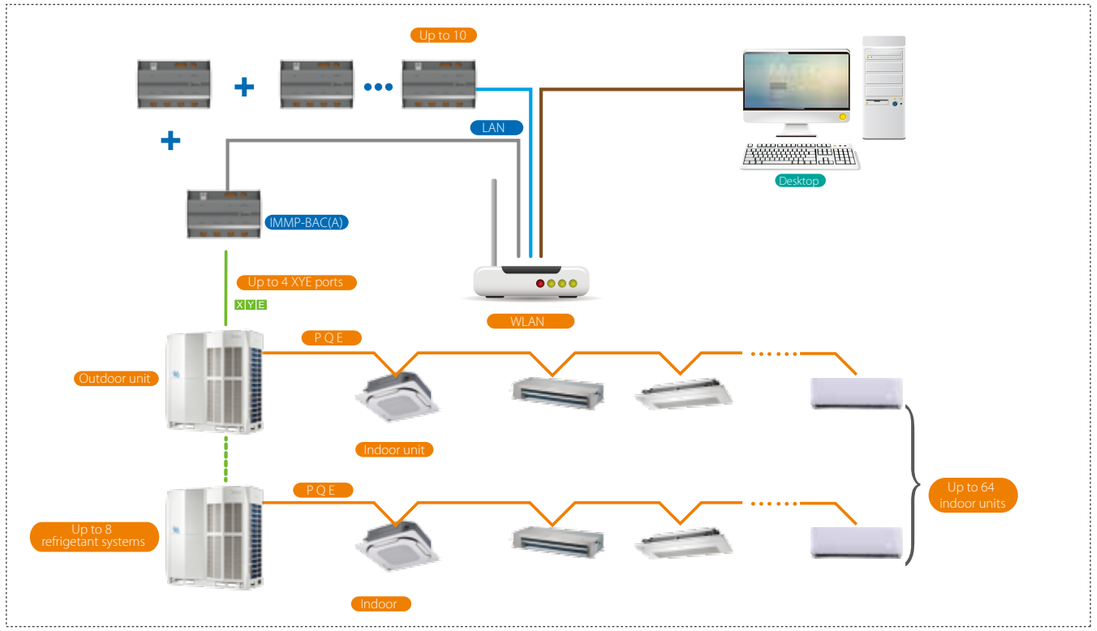
By importing floor plans and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.

Schedule Management

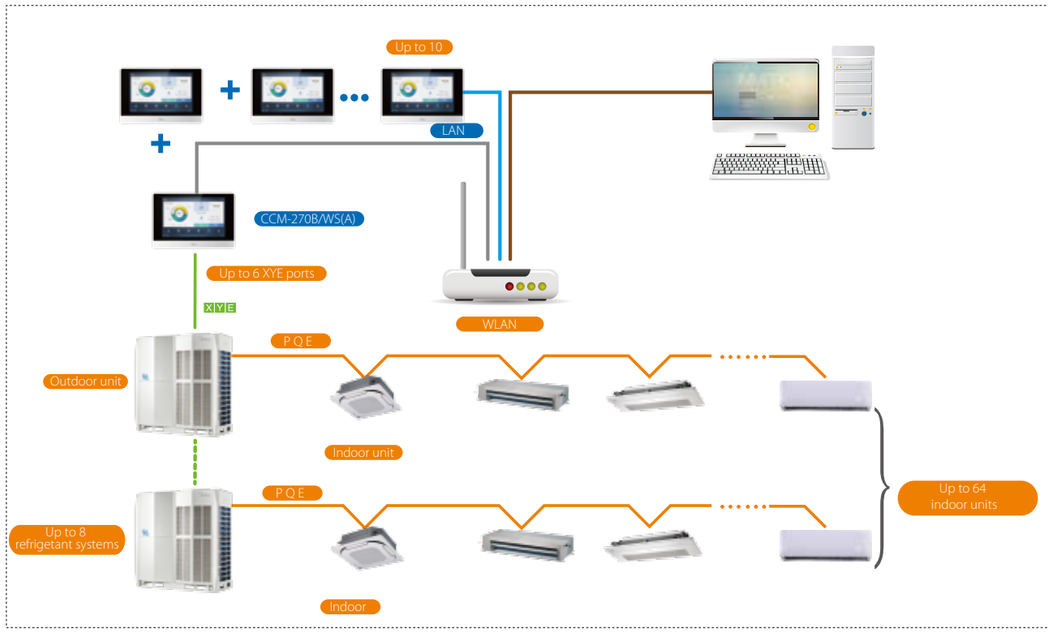
Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.

Xpress Installation

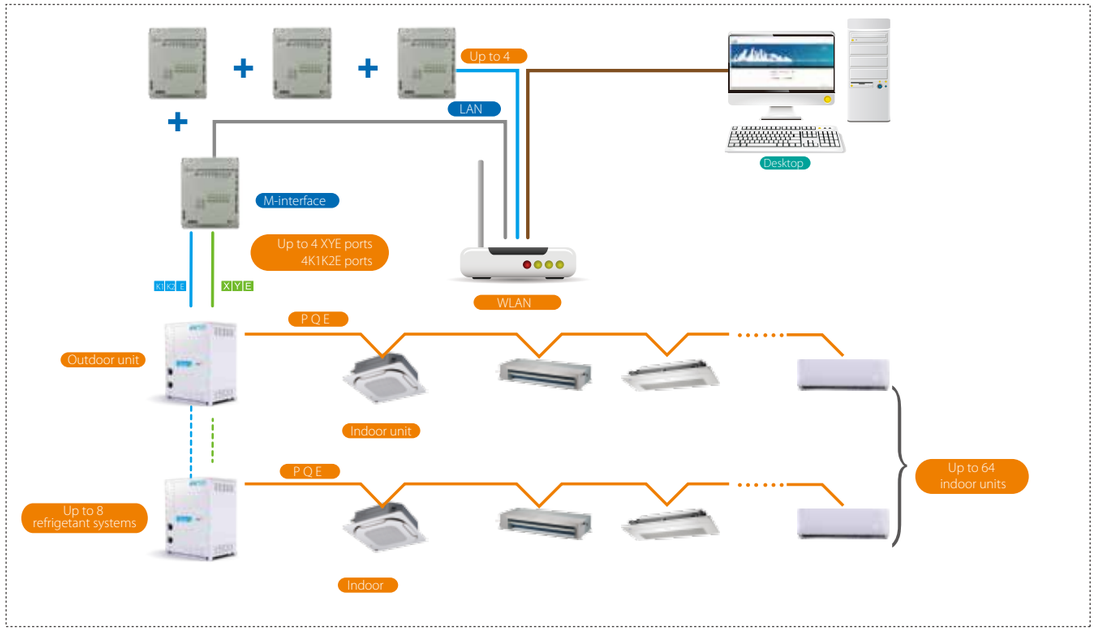
With the Xpress Installation wizard, IMMPRO can be installed quickly and easily without requiring support from a technical support engineer.



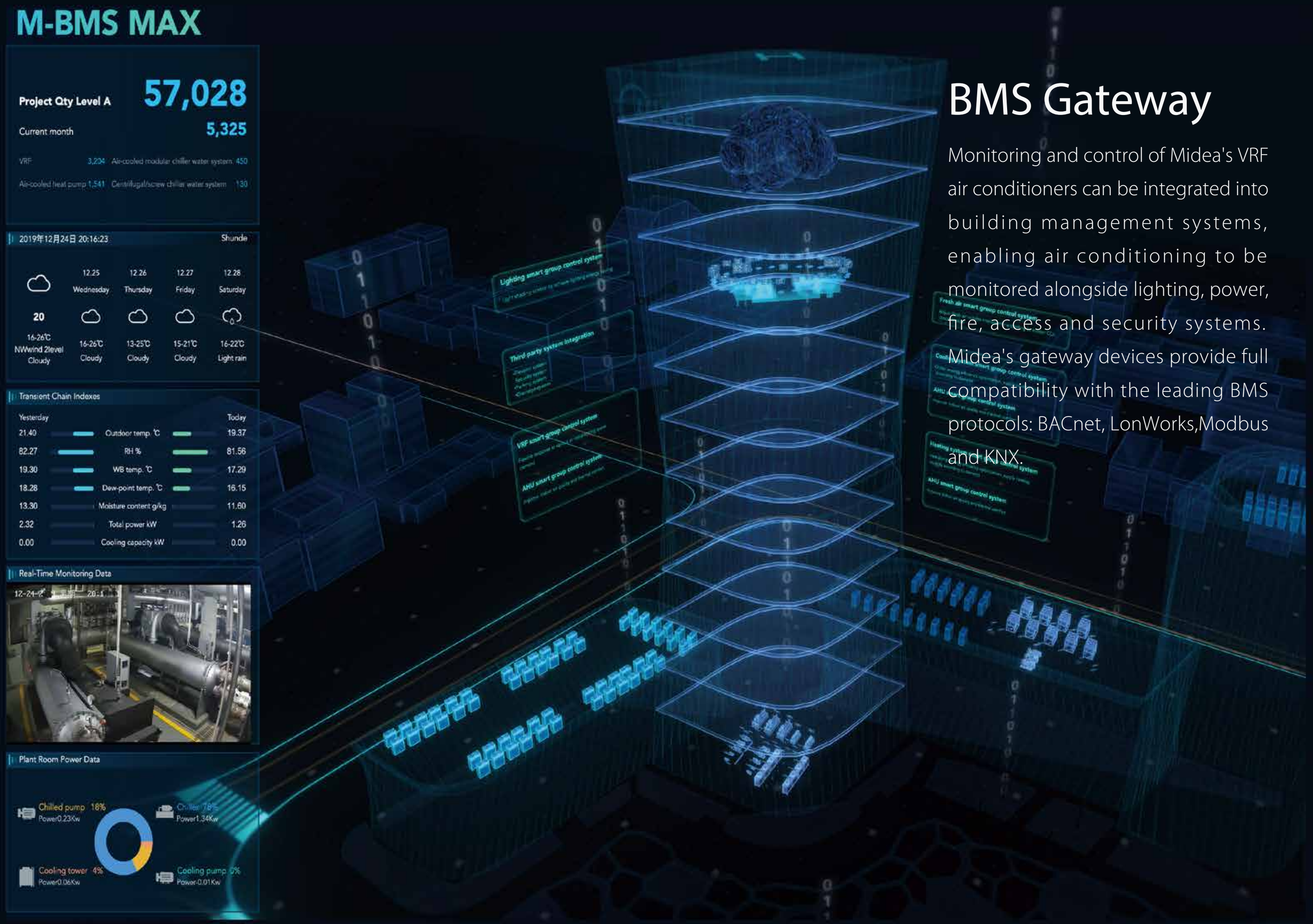
IMMP-BAC(A)



CCM-270B/WS(A)



M-interface



BMS Gateway

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

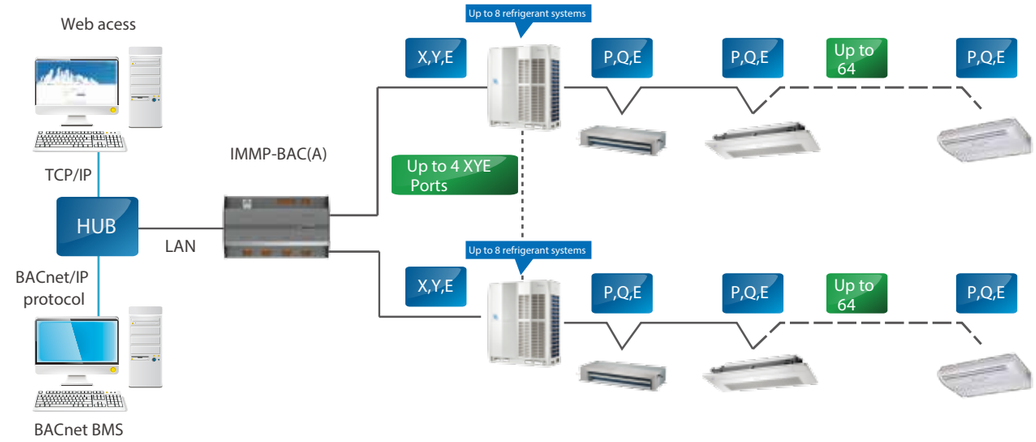
BACnet Gateway

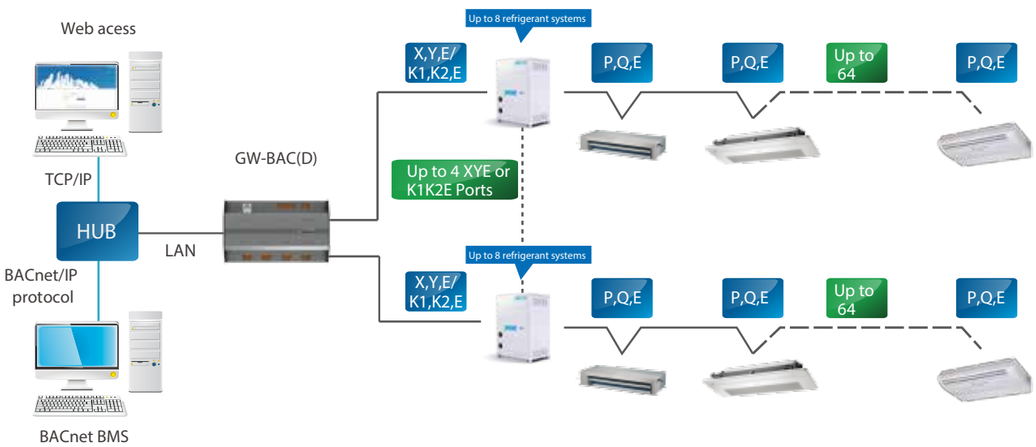
Full Integration

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.





Features

Model		 IMMP-BAC(A)	 GW-BAC(D)
Max. number of devices (include indoor and outdoor units)		256	256
Max. number of refrigerant systems		32	32
Control	On / Off	●	●
	Mode selection	●	●
	Temperature setting	●	●
	Fan speed	●	●
	Energy management	●	×
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	APOGEE
	Trane	TRACER	TRACER
	Honeywell	ALERTON	ALERTON
	Schneider	Andover Continuum	Andover Continuum
	Johnson Controls	METASYS	METASYS
Dimensions (HxWxD)(mm)		116×190×67	116×190×67
Power supply		24V AC~50/60Hz	24V AC~50/60Hz
Outdoor unit series		All series	V4+I(except 10/12HP)/V4+W/ Mini VRF- Standard Series ODU

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

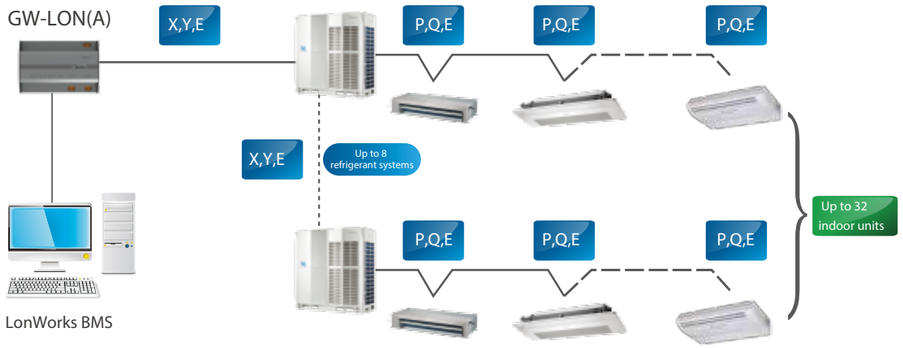
LonWorks Gateway

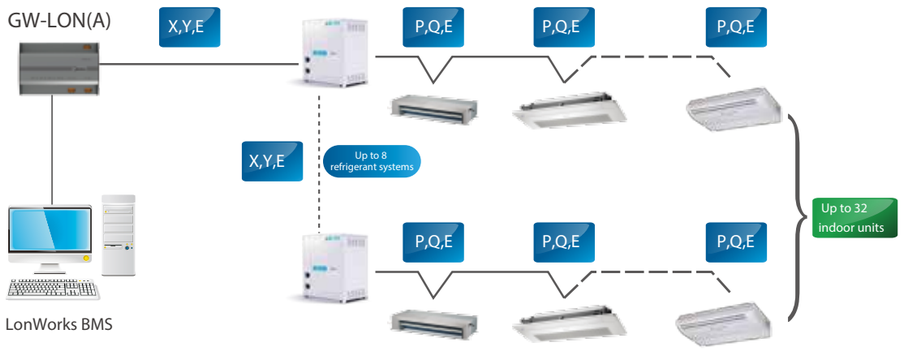
Full Integration

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' XYE 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)		116×170×67
Power supply		24V AC~50/60Hz
Outdoor unit series		All series

Note:
●: equipped as standard

Control Solutions

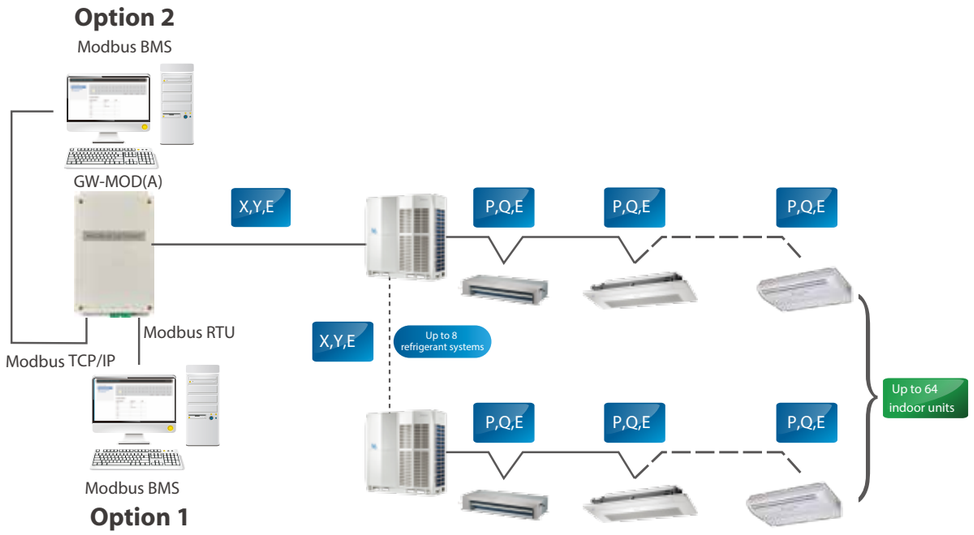
Modbus Gateway

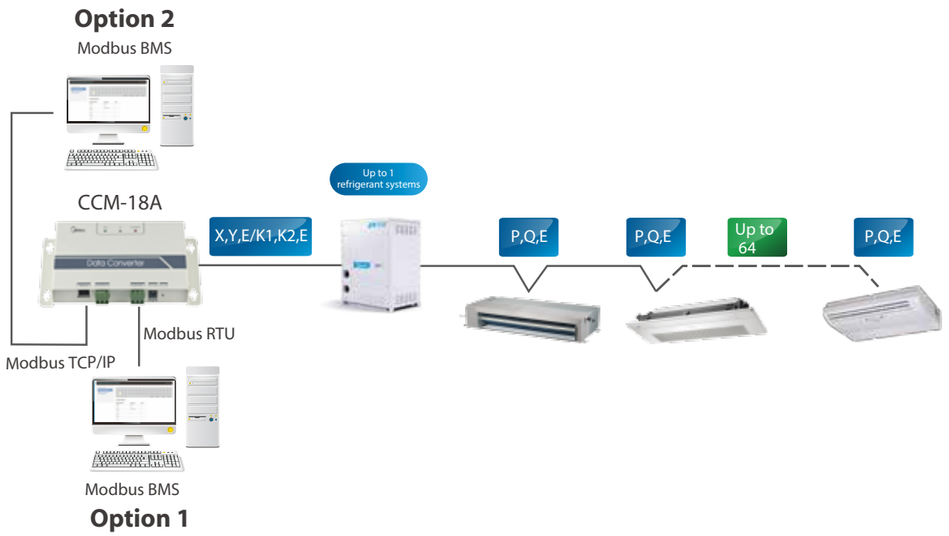
Full Integration

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)		225×128×28	187×115×28	
Power supply		12V DC	5V DC	
Outdoor unit series		V6/V6i/VC pro/V6R/V4+I(10-12HP), Mini C ODU	V4+I(Except 10/12HP)/V4+W/Mini VRF-Standard Series	

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

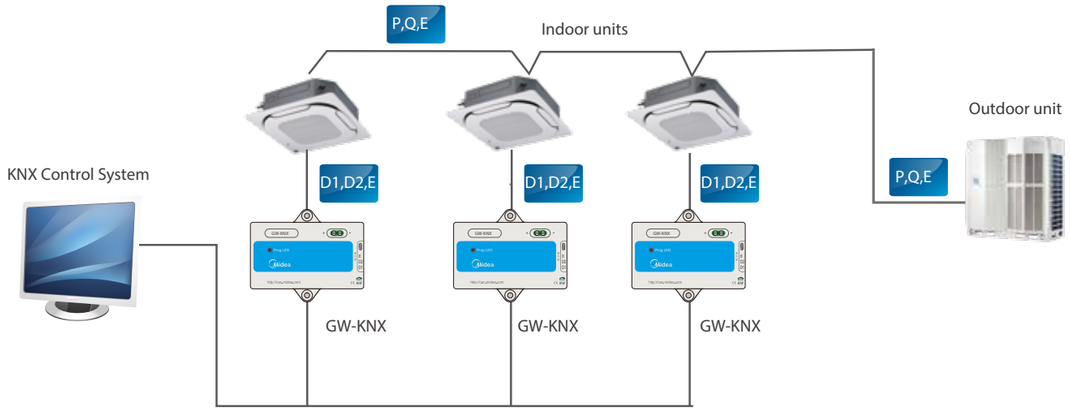
KNX Gateway

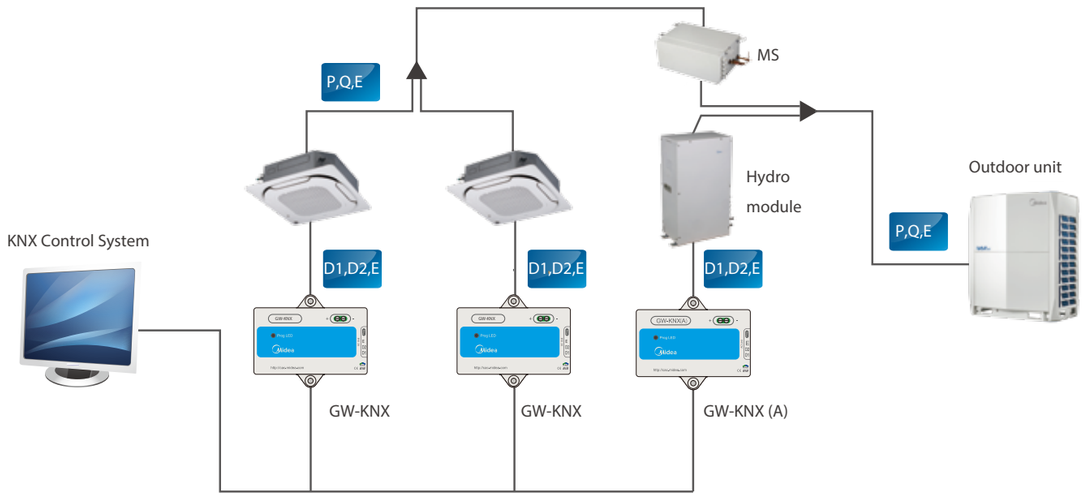
Full Integration

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℃ 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)		85×51×16
Power supply		29VDC (KNX bus supply)
Indoor unit series		2nd 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)		85×51×16
Power supply		29VDC (KNX bus supply)
Indoor unit series		High Temperature Hydro Module for V6R

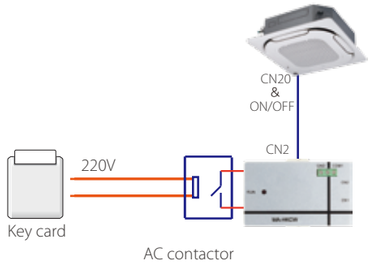
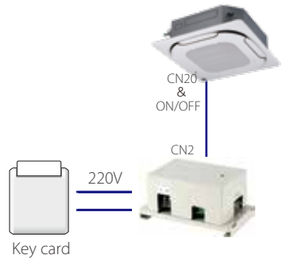
Note:
●: equipped as standard

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	●	●
Compatiblity	Remote and wired controller	Remote and wired controller
Dimensions (H×W×D) (mm)	15.5×86×72.8	87×150×70
Power supply	5V DC (Supplied by indoor unit)	5V DC (Supplied by indoor unit)
Indoor unit series	All series	

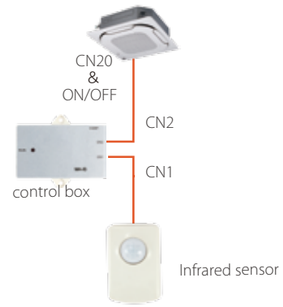
Note:
●: equipped as standard

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 (H×W×D)(mm)	Sensor 46×30×25.6, Control box 86×72.8×15.5
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		●
Toubleshooting		●
Data logs		●
Diagrams		System schematic, refregetrant flow diagram, parameter chart
Languages supported		English, Chinese
Outdoor unit series		V6/V6i/VCPco/V6R

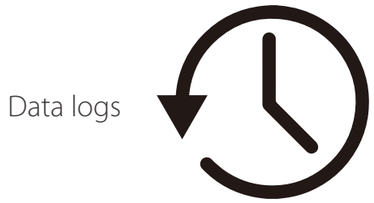
Note:
●: equipped as standard
1. Heat exchanger temperature, outdoor ambient temperature, discharge temperature.
2. Oil return valve, defrosting valve, EXV bypass valve, four-way valve.
3. Indoor ambient temperature, indoor heat exchanger mid-point temperature, indoor heat exchanger outlet temperature, 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.

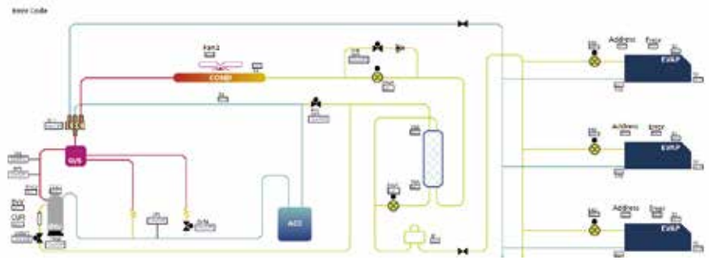
Parameter Querying
Access all the system parameters easily.

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

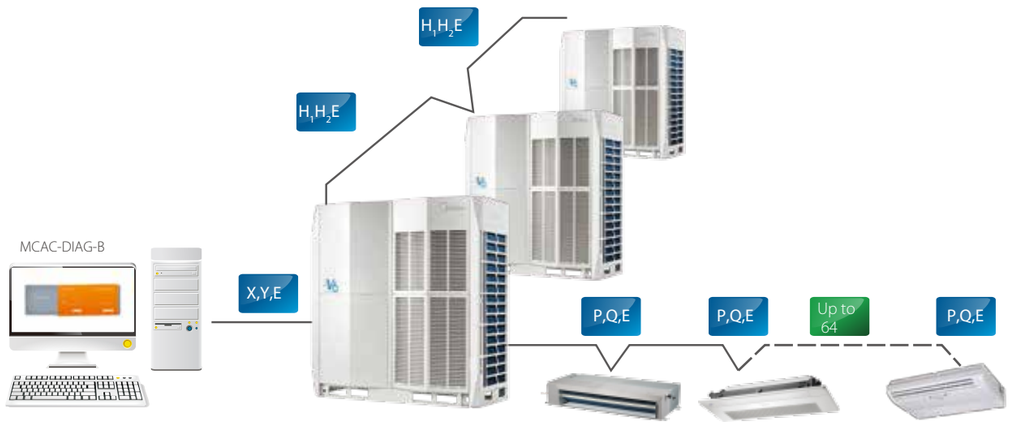
Data Logs
Data logs including operating records and error reports are saved by the software which is useful for discovering system issues.



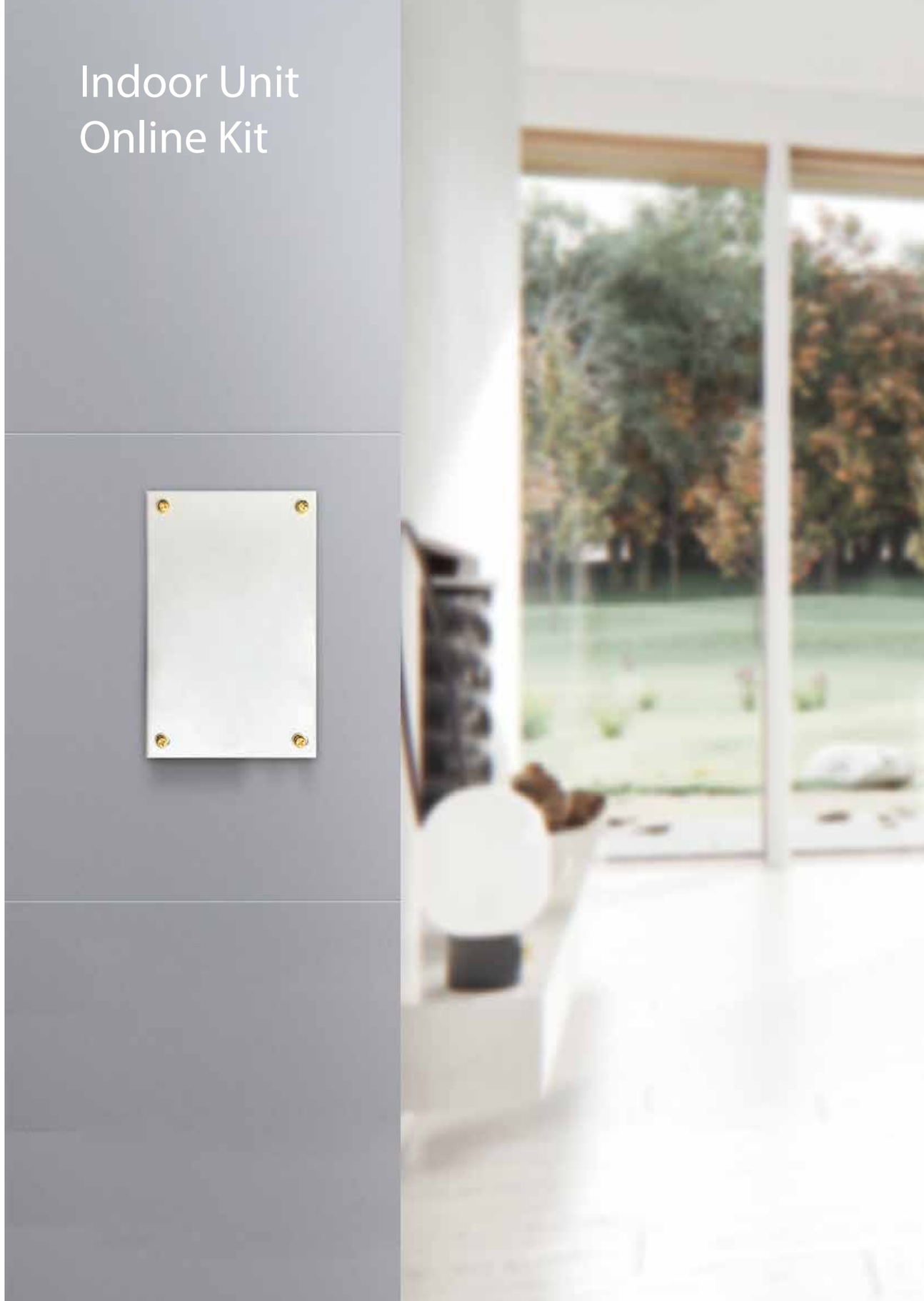
Diagrams
A system schematic, refregetrant flow diagram and parameter chart can be generated to provide a graphical interpretation of the system status.



Wiring Schematic



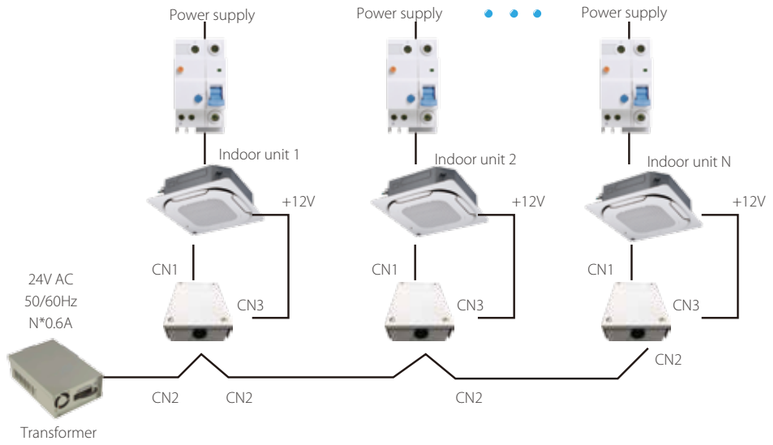
Indoor Unit Online Kit



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.

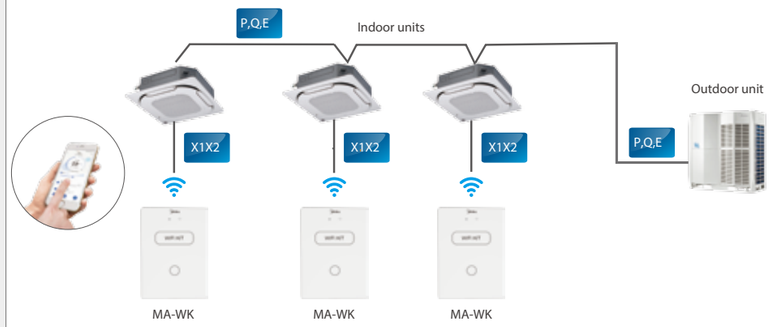
Features

Model	 MCAC-PIDU
Network flexibility	
Dimensions (HxWxD)(mm)	146.6 x 100.6x 46.8
Power supply	24V AC
Indoor unit series	2nd generation DC IDU

WiFi Kit

The MA-WK is used to connect IDU to Could to control by Midea Smartlife App.

Features

Model	 MA-WK
Wiring flexibility	
Dimensions (HxWxD)(mm)	102×75×15
Power supply	18V DC(From IDU X1X2 port)
Indoor unit series	2nd generation IDU

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 (H×W×D)(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 (H×W×D)(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+I(Except 10/12HP) ODU

VRF DX AHU Control Box

High Efficiency

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

Wide Capacity Range

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

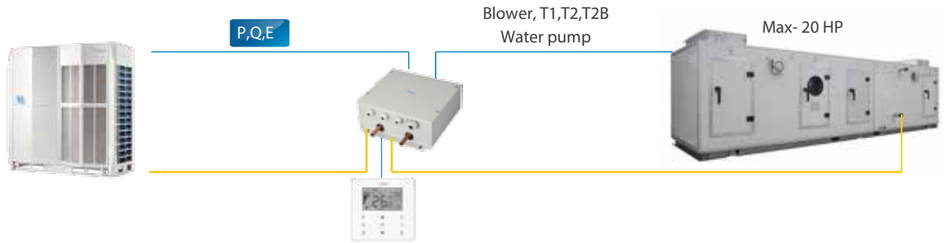
AHUKZ-00B: 2.2~9kW
AHUKZ-01B: 9~20kW
AHUKZ-02B: 20~36kW
AHUKZ-03B: 36~56kW

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

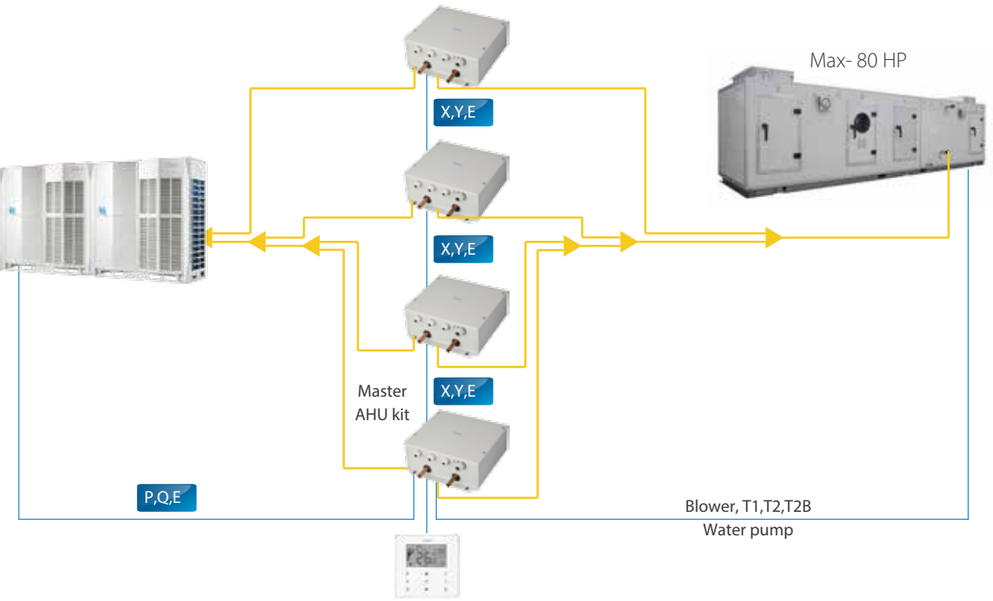
Compatible with VRF Systems

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



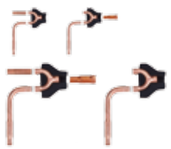
Specifications

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			

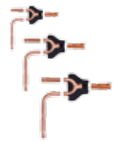
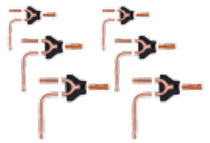
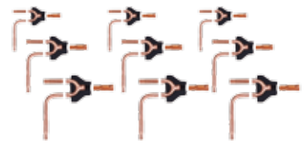
Model name	AHUKZ-00B	AHUKZ-01B	AHUKZ-02B	AHUKZ-03B
Capacity A (kW)	2.2≤ A<9	9≤A≤20	20<A≤36	36<A≤56
Power supply	220-240V~50/60Hz			
Liquid pipe (in/out) (mm)	Φ9.53/Φ9.53	Φ9.53/Φ9.53	Φ12.7/Φ12.7	Φ15.9/Φ15.9
Dimension (WxHxD) (mm)	350×150×375			
Weight (kg)	8.4	8.4	8.7	8.9
Operation range (cooling on coil) (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

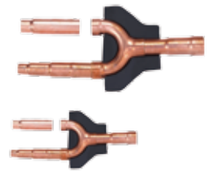
Type	Appearance	Model	PackedDimensions mm	GrossWeight kg	Note
Branch joints for V6 & VC Pro VRF		FQZHW-02N1E	255×150×185	2.0	Connecting two outdoor units
		FQZHW-03N1E	345×160×285	4.3	Connecting three outdoor units
Branch joints for V4+W VRF		FQZHW-02N1D	255×150×185	1.5	Connecting two outdoor units
		FQZHW-03N1D	345×160×285	3.4	Connecting three outdoor units
		FQZHW-04N1D	475×165×300	4.8	Connecting four outdoor units

For Heat Recovery Outdoor Units

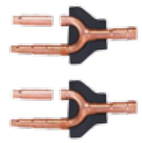
Type	Appearance	Model	Packed Dimensions mm	GrossWeight kg	Note
Branch joints between outdoor unit		FQZHW-02SB	272×167×232	2.2	Connecting two outdoor units
		FQZHW-03SB	472×157×312	5.0	Connecting three outdoor units
		FQZHW-04SB	745×160×335	7.5	Connecting four outdoor units
Branch joints between MS and outdoor unit		FQZHN-01SB	257×127×107	0.8	
		FQZHN-02SB	287×137×107	0.9	
		FQZHN-03SB	297×167×177	1.4	
		FQZHN-04SB	372×197×187	2.3	
		FQZHN-05SB	432×222×227	3.3	

Branch Joints

For Indoor Units

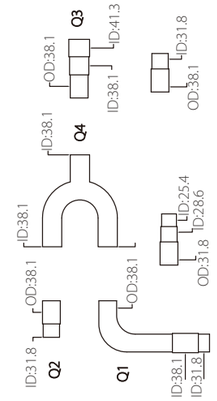
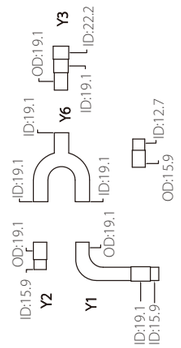
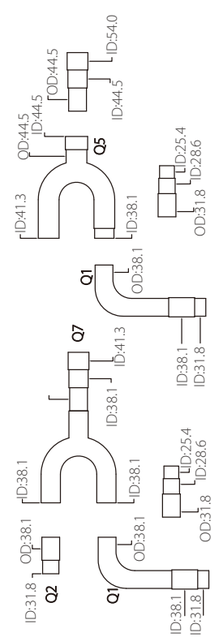
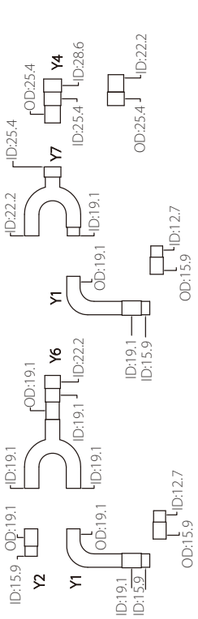
Type	Appearance	Model	PackedDimensions mm	GrossWeight kg	Note
Branch joints for indoor units		FQZHN - 01D	290×105×100	0.4	/
		FQZHN - 02D	290×105×100	0.6	/
		FQZHN - 03D	310×130×125	0.9	/
		FQZHN - 04D	350×180×170	1.5	/
		FQZHN - 05D	365×195×215	1.9	/
		FQZHN - 06D	390×230×255	3.1	/
		FQZHN - 07D	390×230×255	3.4	/

For DX AHU Control Box

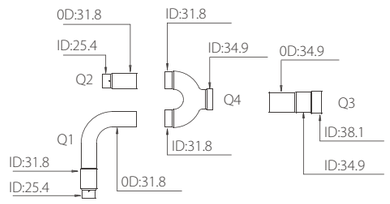
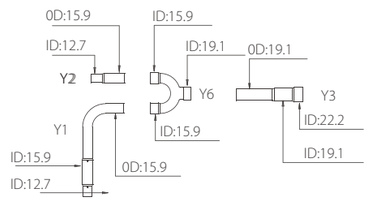
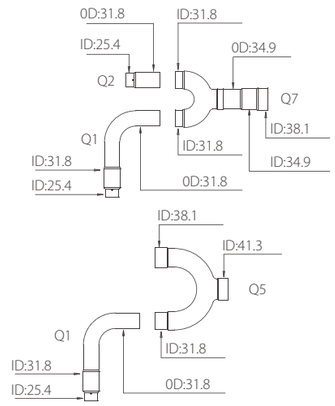
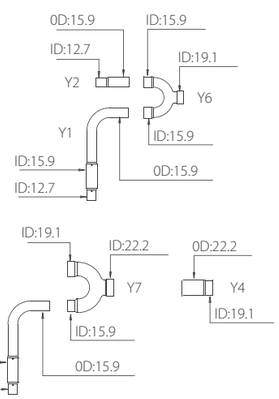
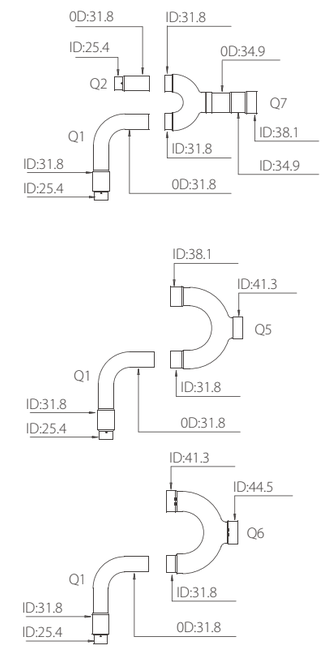
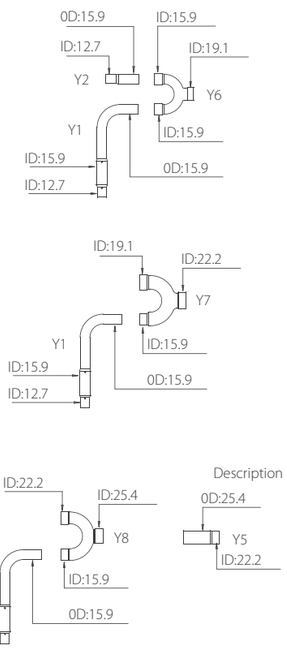
Type	Appearance	Model	PackedDimensions mm	GrossWeight kg	Note
Branch joints for DX AHU control box		FQZHD - 01	240×80×80	0.3	/
		FQZHD - 02	280×90×90	0.5	/
		FQZHD - 05	310×130×125	0.7	/
		FQZHD - 04	310×130×125	0.9	/

Dimensions

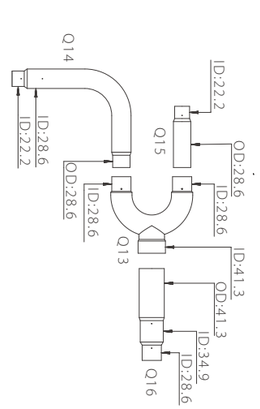
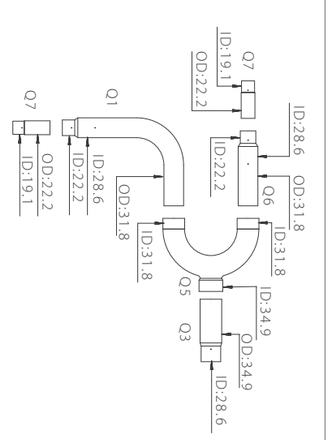
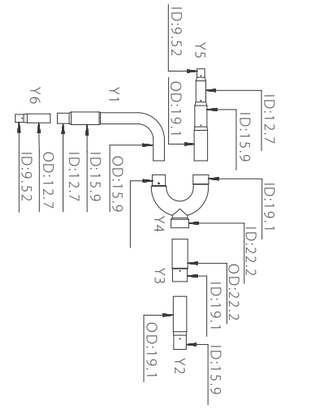
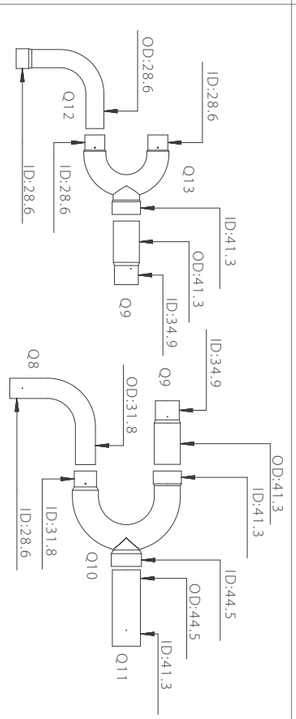
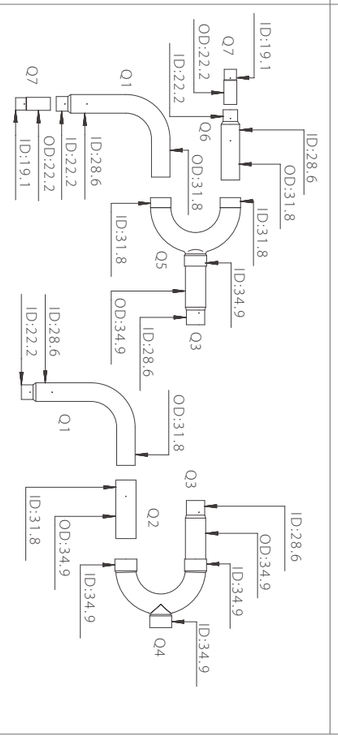
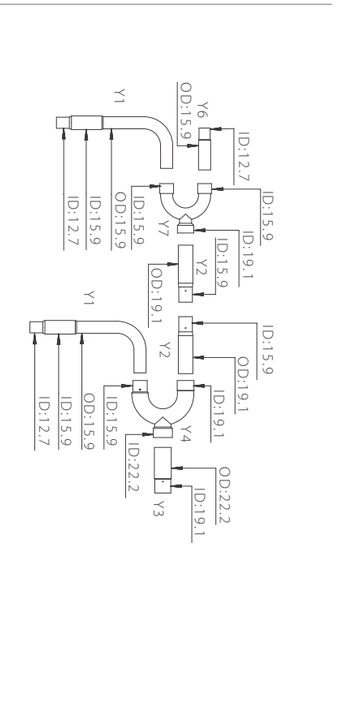
Outdoor Branch Joints

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

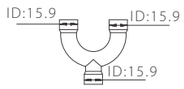
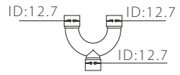
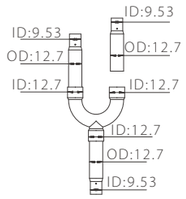
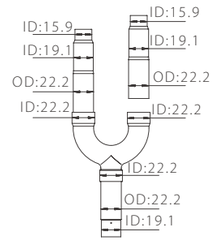
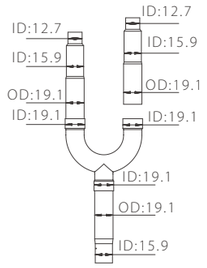
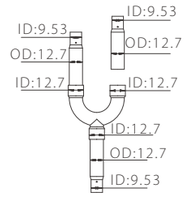
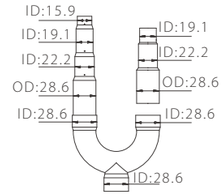
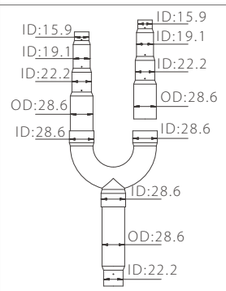
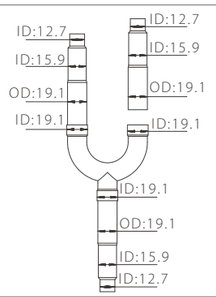
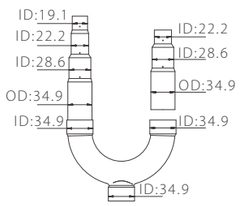
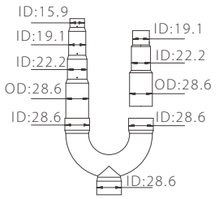
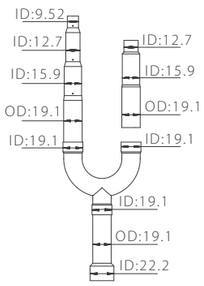
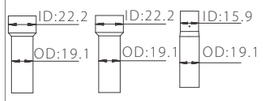
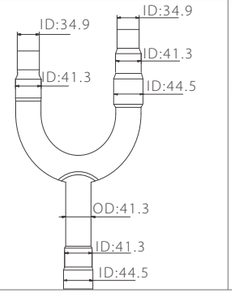
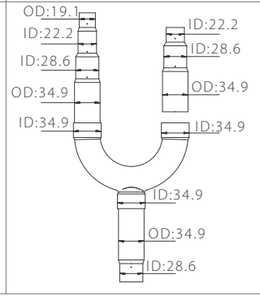
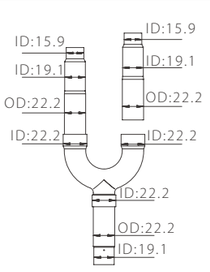
Outdoor Branch Joints

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

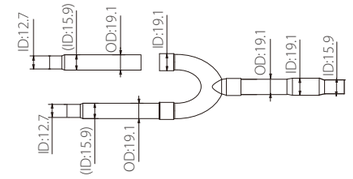
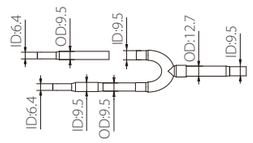
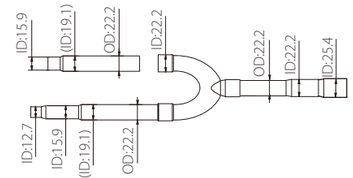
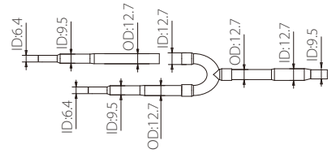
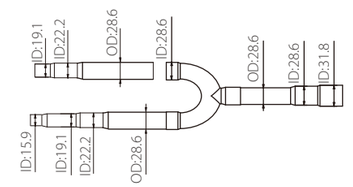
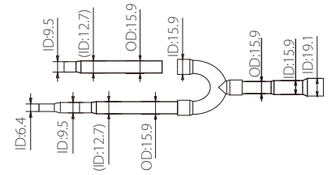
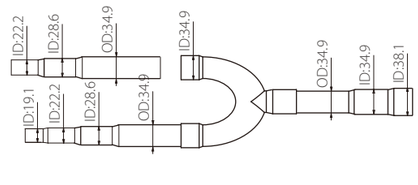
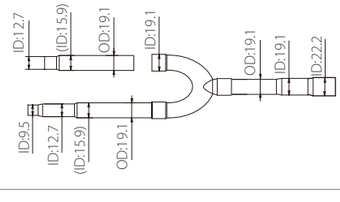
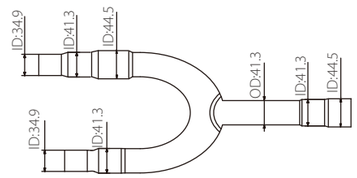
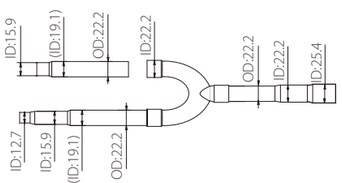
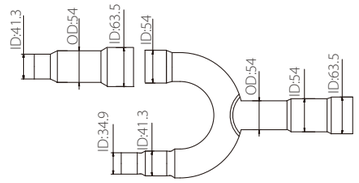
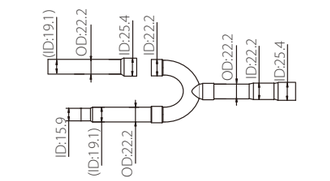
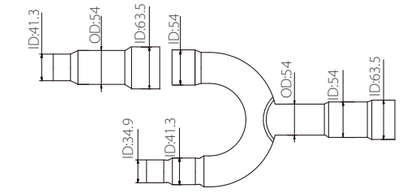
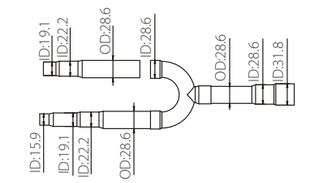
Outdoor Branch Joints

Model	Low-pressure gas side joints	High-pressure gas side joints	Liquid side joints
FQZHW-02SB1			
FQZHW-03SB1			

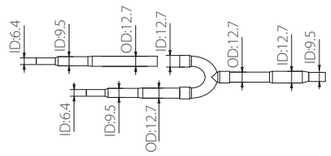
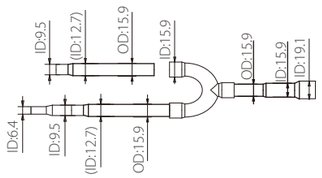
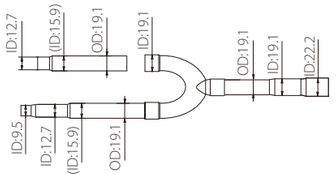
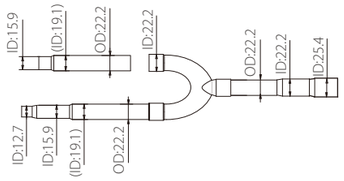
Branch Joints between MS and Outdoor Unit

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

Indoor Branch Joints

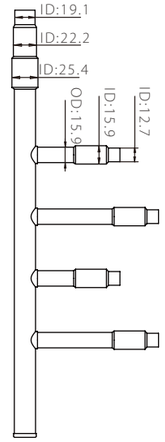
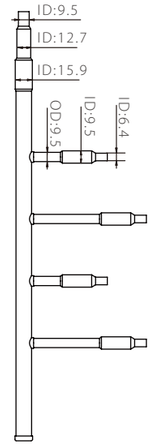
Model	Gas side joints	Liquid side joints
FQZHN-01D		
FQZHN-02D		
FQZHN-03D		
FQZHN-04D		
FQZHN-05D		
FQZHN-06D		
FQZHN-07D		

DX AHU Control Box Branch Joints

Type	Liquid side joints (2 Sets)
FQZHD-01	
FQZHD-02	
FQZHD-03	
FQZHD-04	

Branch Header

For Indoor Units

Model	Appearance	Gas side dimension	Liquid side dimension
DXFQT4-01			
DXFQT8-01