

MDV2V202101

HVAC & Building Technologies Division
Midea Group

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

2021

H V A C B U I L D I N G T E C H N O L O G I E S

VRF

50Hz Catalogue



MDV

MDV was created in 1999 under HBT (HVAC & Building Technologies) Division as a professional climatic solution brand for sales via specialized air-conditioning companies. MDV's brand portfolio (range of products produced under MDV brand) consists of cutting-edge technology and commercial and industrial equipment. These include VRF (Variable Refrigerant Flow) systems, air source heat pump, chillers and fan-coils, compressor condensing units, light commercial air-conditioners, used in commercial segment. Focusing on the professional channel for more than 10 years, MDV brand is recognized worldwide as one "professional HVAC solutions" .



Benefits of Midea VRF

Benefits for End-users



Healthy Operation

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



Cost Saving Operation

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



Comfortable Environment

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



Benefits for Building Owners



Energy Saving Management

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



Reliable Operation

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



Backup Solution

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



Benefits for Consultants



Diversified Solutions

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



Professional Tool and Support

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



Design Flexibility

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



Benefits for Construction Companies



Green Solutions

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



Space Saving Design

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



Intelligent Management

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



Application Solutions

Office Complexes

Enjoy comfort while working

High-rise office building



- ◆ V6 / V6R VRF
- ◆ High Static Pressure Duct
- ◆ Four-way Cassette
- ◆ DX AHU / HRV
- ◆ BMS Controller

Small and medium-sized office buildings



- ◆ V6 / V6i VRF
- ◆ Medium Static Pressure Duct
- ◆ Four-way Cassette
- ◆ Central Controller

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



- ◆ V6 VRF
- ◆ High Static Pressure Duct
- ◆ DX AHU
- ◆ BMS controller



- ◆ V6i VRF
- ◆ Ceiling & Floor Unit
- ◆ Central Controller



- ◆ V6R VRF
- ◆ Medium Static Pressure Duct
- ◆ HRV
- ◆ Hydro Module
- ◆ Central Controller

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



- ◆ V6 VRF
- ◆ Wall-mounted Unit
- ◆ Medium Static Pressure Duct
- ◆ HRV
- ◆ BMS Controller



- ◆ V6i VRF
- ◆ Mini VRF
- ◆ Medium Static Pressure Duct
- ◆ Remote Controller

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

Other Applications

Meeting all expectations

Hospitals

Schools

Airports



- ◆ V6R VRF
- ◆ Medium Static Pressure Duct
- ◆ Fresh Air Processing Unit
- ◆ DX AHU / HRV
- ◆ Hydro module
- ◆ Puro-air Kit
- ◆ Remote / Central Controller



- ◆ V6 VRF
- ◆ Four-way Cassette
- ◆ Central controller



- ◆ V6R VRF
- ◆ High Static Pressure Duct
- ◆ DX AHU / HRV
- ◆ BMS controller

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

MHBT Learning Academy



Objective

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

Training Centers

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

1. Midea HBT Training Center

Address: Midea HBT Training Center, 2nd Floor, Building 6, Midea Global Innovation Center, Beijiao, Shunde, Foshan, China
Pin- 528311
The Midea HBT Training Center is situated 70 kilometers from Baiyun Guangzhou International Airport.
Products: VRF, M thermal

2. Chongqing Midea Training Center

Address: No. 15, Qiangwei Road, Nan'an District, Chongqing, China
Chongqing Midea Training Center is 35 kilometers from Chongqing International Airport.
Products: Centrifugal Chiller, Screw/Scroll Chiller and Terminals



VRF training



M thermal training



Chiller training

Global Technical Trainings

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

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

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

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

Products: VRF, M thermal, Chillers and Terminals

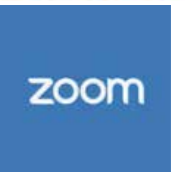
Highly Skilled Trainers: The trainers for various courses by Midea HBT Learning Academy are expert people with vast experiences in their field. Most of them have a deep insight about the global HVAC market and help the attendees to better understand the HBT products.

Training Certificates:

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

Registration:

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



Engineering Capability Midea Tool and Support

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



MSSP-Drag/Drop Design

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

Note: MSSP (Midea Selection Software Platform)



MSSP-CAD Design

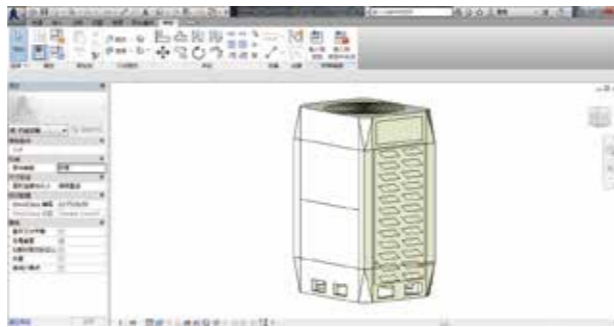
MSSP-CAD design enables an visual and fast selection and provides comprehensive system design reports and calculations.

Note: MSSP (Midea Selection Software Platform)



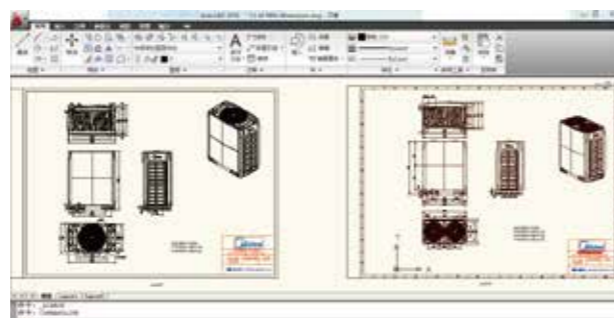
Revit Family

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



CAD Drawing

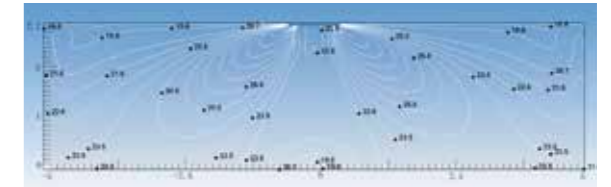
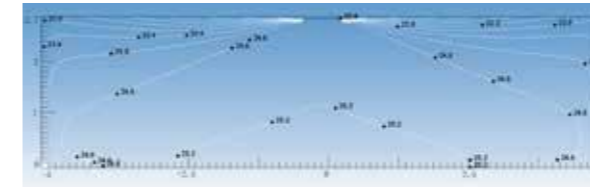
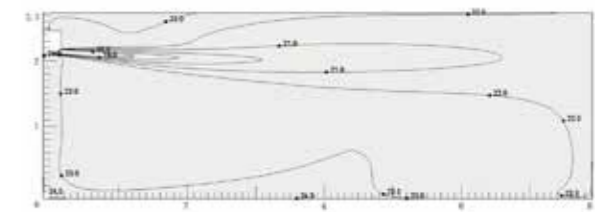
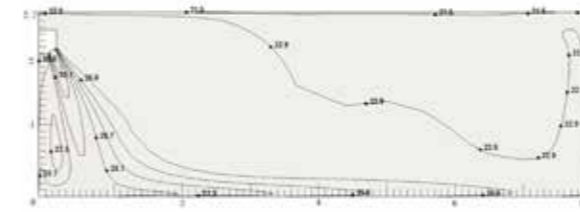
CAD enables faster and a more accurate design of Midea products.



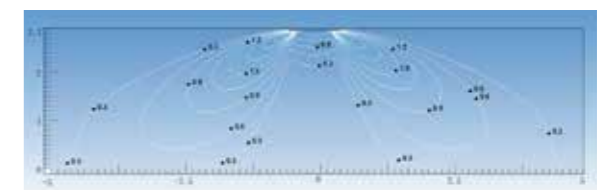
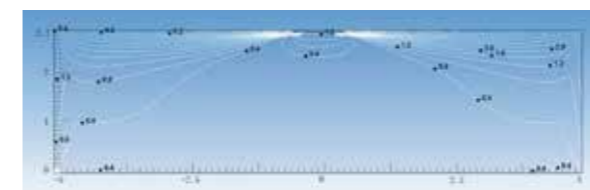
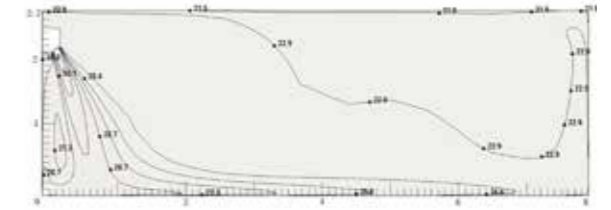
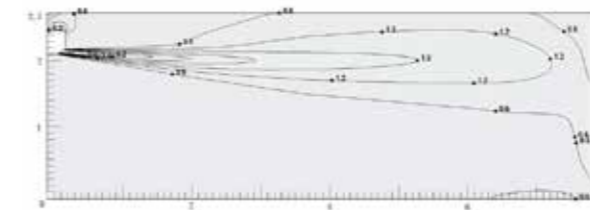
CFD (Computational Fluid Dynamics)

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.



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01

OUTDOOR UNITS

Air cooled - heat pump VRF

- 033 VRF MDV6
- 041 VRF MDV6i
- 045 VRF MDV4i - side discharge
- 047 Mini VRF

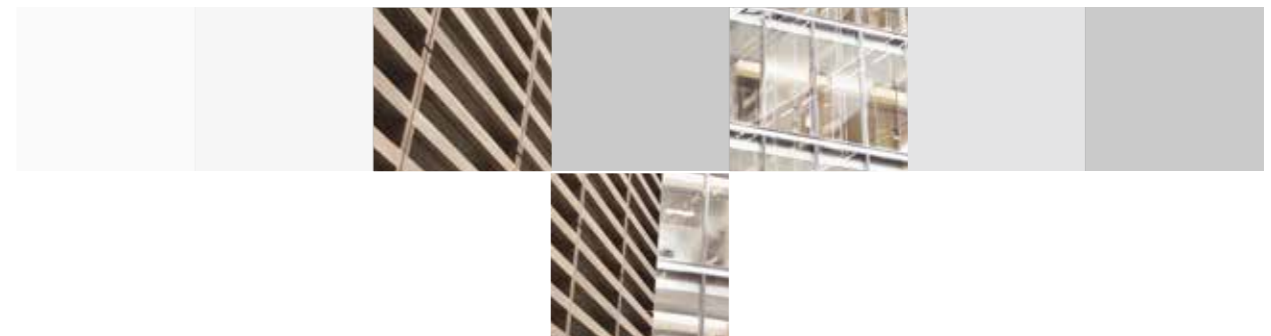
Air cooled - heat recovery VRF

- 053 VRF MDV6R

04 BRANCH JOINTS



- 167 Branch Joints
- 175 Branch Headers



03 CONTROL SYSTEMS

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OUTDOOR UNITS

Air Cooled - Heat Pump VRF
Air Cooled - Heat Recovery



Outdoor Unit Lineup

HP			3	4	4.5	5	6	6.5		7	8	9	10	12	14	16	18	20	22	24	26	28	30	32	34-54	56-96	
Air Cooled - Heat Pump	VRF MDV6										●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	VRF MDV6i - Top Discharge										●		●	●	●	●	●	●	●	●	●	●	●	●			
	VRF MDV6i - Side Discharge									●	●	●	●	●													
	VRF MDV4i - Side Discharge														●	●											
	Mini VRF - Standard				●	●	●	●																			
	Mini VRF - Mini C Series		●	●	●	●	●																				
Air Cooled - Heat Recovery	VRF MDV6R										●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● Single unit ● Combination unit

Outdoor Unit Functions

Functions	Air Cooled - Heat Pump				Air Cooled - Heat Pump			Air Cooled - Heat Recovery	
	VRF MDV6	VRF MDV6i-top discharge	VRF MDV6i-side discharge		VRF MDV4i-side discharge	Mini VRF - standard	Mini VRF - Mini C series	VRF MDV6R	
Key Technology	META technology	●	●	×	×	×	×	●	
	Zen air	●	●	●	●	●	●	●	
	Doctor M.	●	●	×	×	×	×	●	
High Efficiency	Full inverter compressors	●	●	●	●	●	●	●	
	Enhanced Vapor Injection (EVI) compressor	●	●	×	×	×	×	●	
	Full DC fan motors	●	●	●	●	●	●	●	
	Plate Heat Exchanger (PHE) subcooling	●	●	×	×	×	×	●	
	G-type heat exchanger	● (24-32HP)	● (24-32HP)	×	×	×	×	×	
	7 levels of energy management	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	●	●	●	×	×	●	●	
	Real-time refrigerant amount monitoring	●	●	×	×	×	×	●	
	Auto snow-blowing function	○	○	×	×	×	×	○	
	Dust-clean function	○	○	×	×	×	×	○	
	Gas leak protection	×	×	×	×	×	×	●	
Enhanced Comfort	Silent mode	Night silent mode+silent mode+super silent mode	Night silent mode+silent mode+super silent mode	×	×	×	×	Night silent mode+silent mode+super silent mode	
	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
	High external static pressure	120Pa	120Pa	×		×	×	×	80Pa

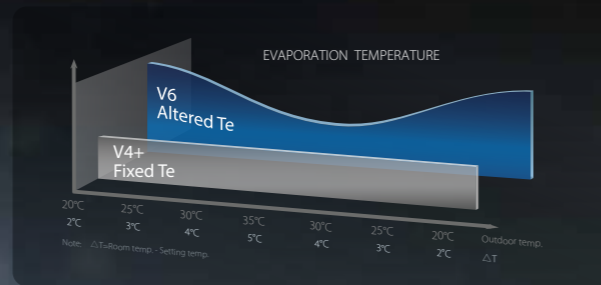
Note:
 ●:equipped as standard; ○:customization option; ×:without this function

KEY TECHNOLOGIES



* Midea Evaporative Temperature Alteration

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



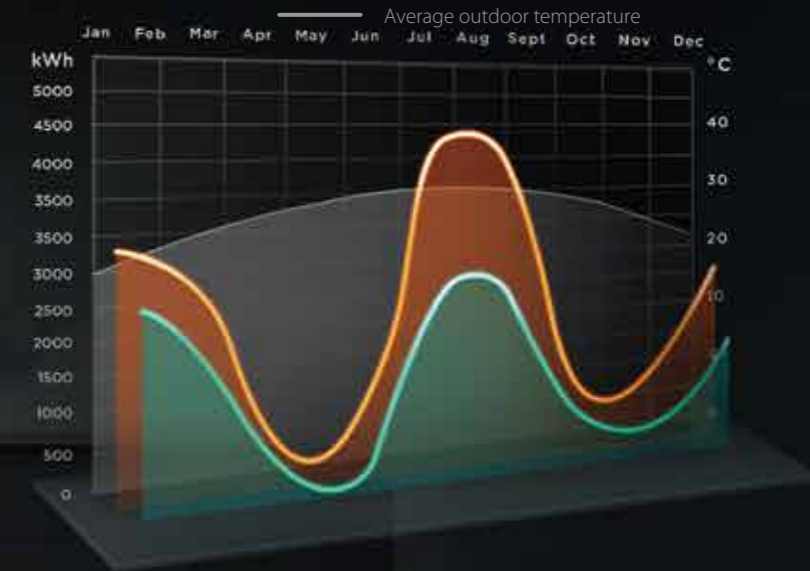
Through the data monitoring of a replacement project in Hangzhou from 2018 to 2019, we obtained the following actual data.

2018-V4+

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

2019-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





MULTI-FUNCTIONAL DIAGNOSIS BOX

STORE UP TO 30 SETS OF ERROR DATA
SIMPLIFYING MAINTENANCE



DOCTOR m.



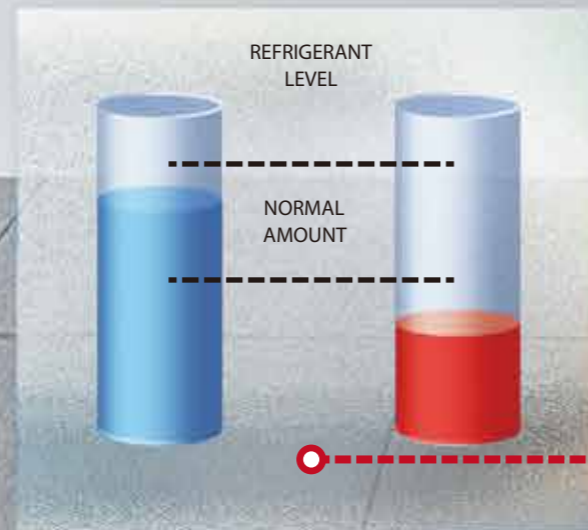
DIAGNOSIS DASHBOARD

REAL TIME MONITORING AND
FAST ERROR LOCATING



REFRIGERANT DETECTOR

REAL TIME REFRIGERANT
AMOUNT MONITORING TO
ALARM AND ENSURE
CONSISTENT PERFORMANCE

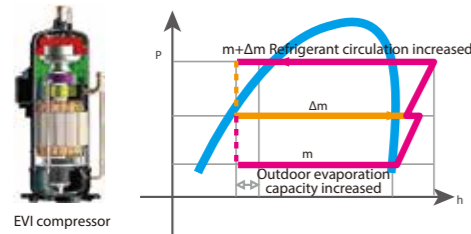


INSUFFICIENT REFRIGERANT

HIGH EFFICIENCY

High Efficiency Enhanced Vapor Injection (EVI) Compressor

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



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.

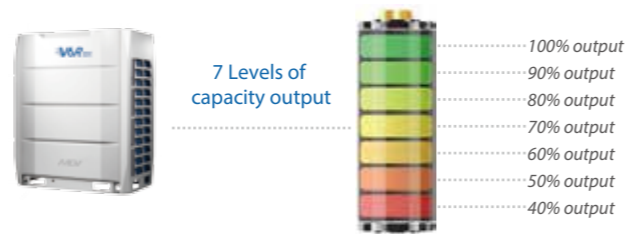
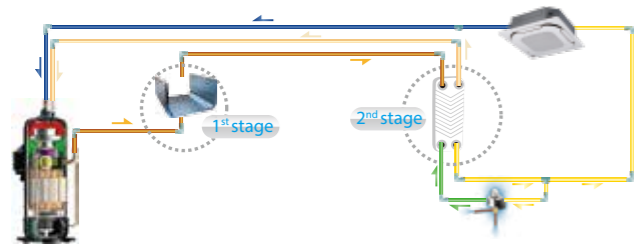


Plate Heat Exchanger (PHE) Subcooling

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

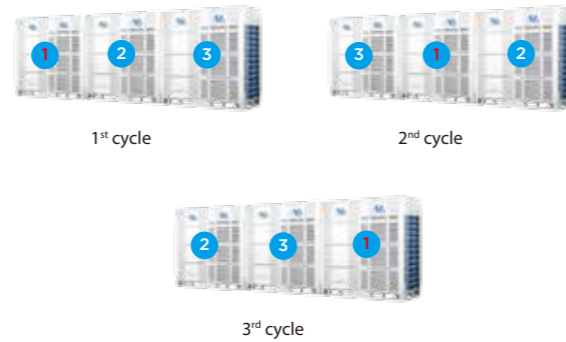


Super big size fan

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.



Double Back-up Operation

Compressor backup

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



Unit backup

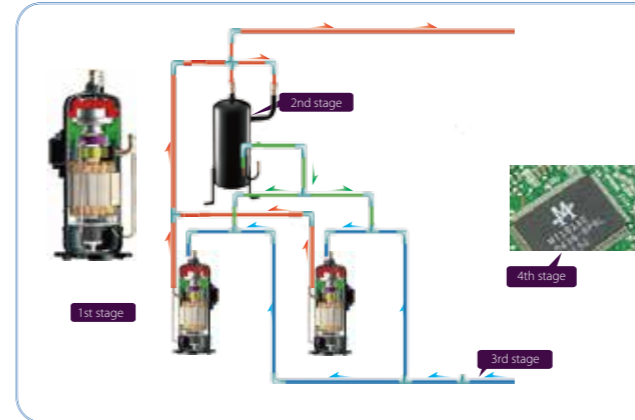
In a multi-unit system, if one module fails, the other modules provide backup so that the system can continue operating.



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.



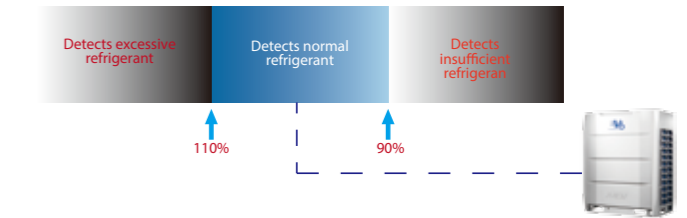
Refrigerant Cooling PCB

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.



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.



Auto Snow-blowing Function

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



Dust-clean function

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



Anti-corrosion Protection

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



01 Screws / bolts / gaskets

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



02 Fan motor

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



03 Electric control box case

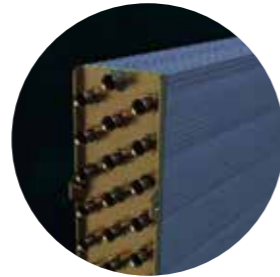
Standard products:
96h of neutral salt mist
Heavy anti-corrosion products:
500h of neutral salt mist

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



UL Anti-Corrosion Certificate

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



04 Heat exchanger aluminum foil

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

Heat exchanger copper pipe

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



05 Painted sheet metal

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

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

WIDE CAPACITY RANGE

Wide Capacity Range

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



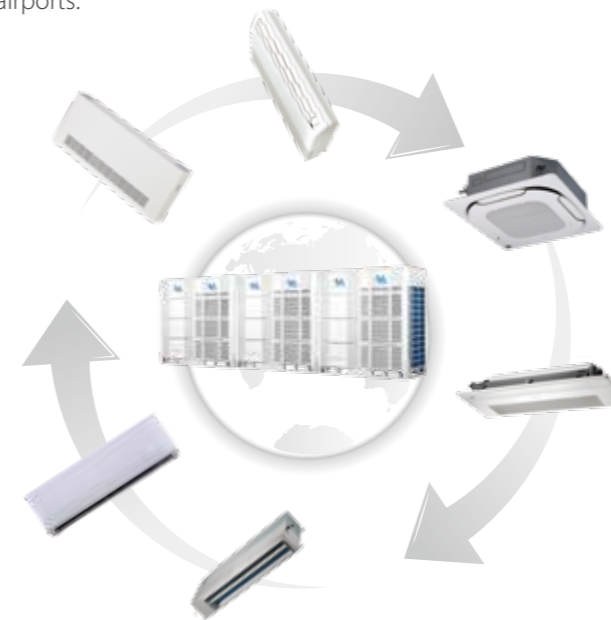
Wide Product Portfolio

MDV 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.



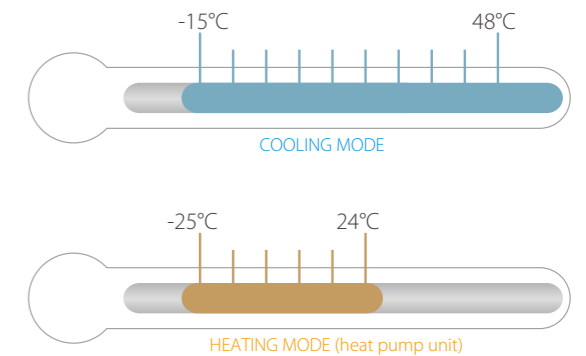
Wide Range of Indoor Units

MDV 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 48°C.



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

ENHANCED COMFORT

Advanced Silent Technology

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

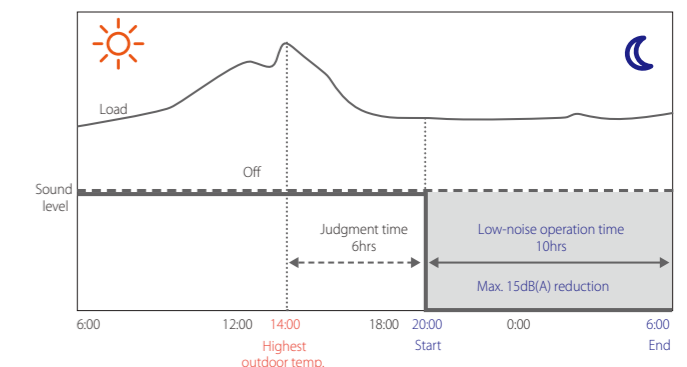


In night silent mode and silent mode, only maximum fan speed is limited to meet the normal silent requirement.



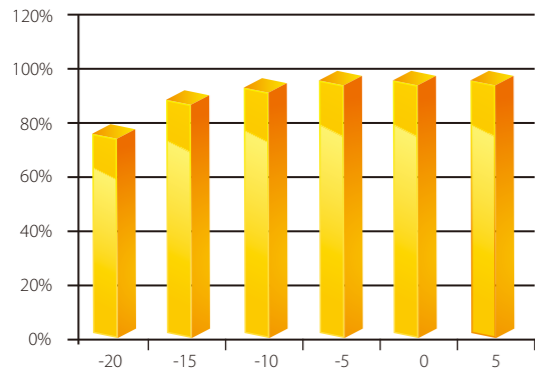
In super silent mode, both maximum fan speed and compressor frequency are limited to meet higher silent requirement.

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



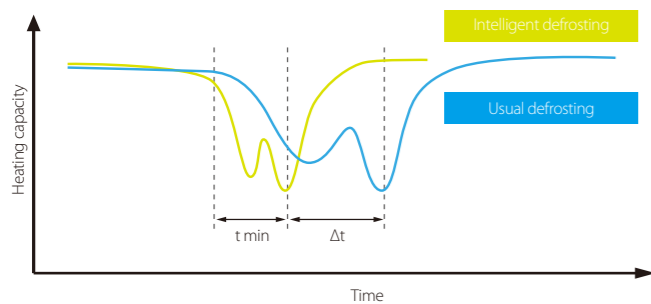
Enhanced Heating Capacity

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



Intelligent Defrosting Technology

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



Multiple Priority Modes

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



EASY INSTALLATION AND SERVICE

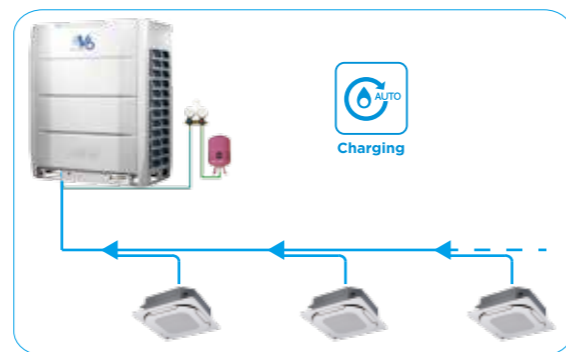
Auto Addressing

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



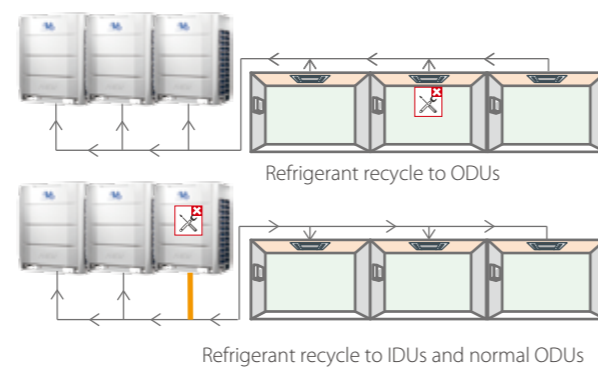
Automatic Refrigerant Charging

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



Automatic Refrigerant Recycling

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



Multi-Functional Diagnosis Box

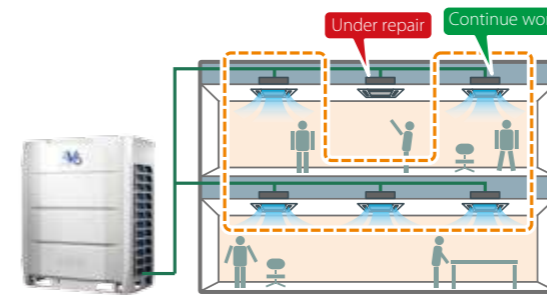
An multi-functional diagnosis box can be installed on the unit's side columns, enabling installation and service engineers to activate Auto-commissioning or check the operating status without removing the front panel. It can also perform automatic data backup of a maximum of 30 sets of error data.



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

Maintenance Mode

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



Oil Balance pipe not required

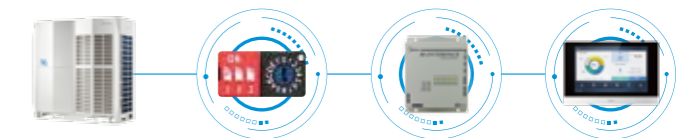
With the new oil management system, there is no need of oil balance pipe.



Triple Configurations

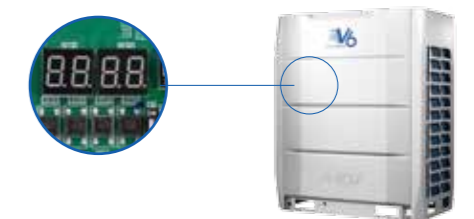
Triple (local/remote/network) configurations greatly simplified installation, commissioning and servicing.

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



7-segment Digit Display

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



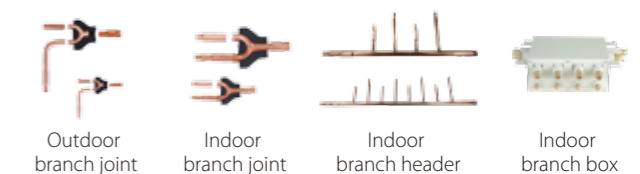
High External Static Pressure

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



MDV Unified Branch Piping

The unified MDV 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 MDV or third party DX AHU



Control Systems
Smart control systems



VRF MDV6 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



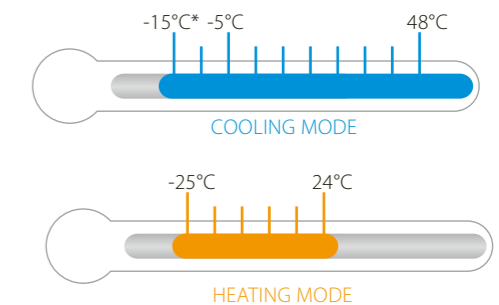
24-96HP



Wide Operating Temperature Range

The MDV6 VRF can operate stably in a wide ambient temperature range: from -5°C (-15°C*) to 48°C in cooling mode and from -25°C to 24°C in heating mode.

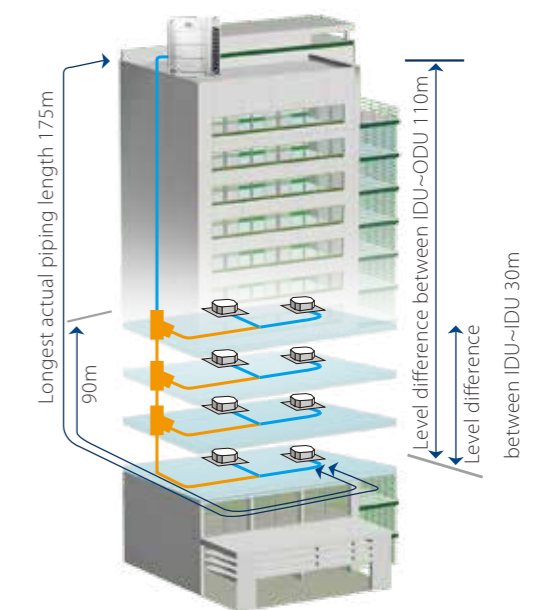
* Cooling operation at -15°C is available as a customization option.



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 MDV6 Series - Heat

380~415V, 3N, 50Hz

Capacity		HP	8	10	12	14
Model			MDVO-V6252V2R1BE	MDVO-V6280V2R1BE	MDVO-V6335V2R1BE	MDVO-V6400V2R1BE
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	25.2	28.0	33.5	40.0
		kBut/h	86.0	95.5	114.3	136.5
	Power input	kW	5.93	6.75	8.7	9.9
	EER	kW/kW	4.25	4.15	3.85	4.05
Heating ² (Rated)	Capacity	kW	25.2	28.0	33.5	40.0
		kBut/h	86.0	95.5	114.3	136.5
	Power input	kW	4.82	5.46	6.6	8.5
	COP	kW/kW	5.23	5.13	5.10	4.70
Heating ² (Max)	Capacity	kW	27.0	31.5	37.5	45.0
		kBut/h	92.1	107.5	128.0	153.5
	Power input	kW	5.39	6.54	7.88	10.27
	COP	kW/kW	5.01	4.82	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	62
Sound power level		dB(A)	78		81	85
Net dimensions (WxHxD)		mm	990x1635x790		1340x1635x850	
Packed dimensions (WxHxD)		mm	1090x1805x860		1405x1805x910	
Net weight		kg	227		277	
Gross weight		kg	242		304	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-25 to 24			

Capacity		HP	16	18	20	22
Model			MDVO-V6450V2R1BE	MDVO-V6500V2R1BE	MDVO-V6560V2R1BE	MDVO-V6615V2R1BE
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	45.0	50.0	56.0	61.5
		kBut/h	153.5	170.6	191.1	209.8
	Power input	kW	12.0	12.5	15.1	18.4
	EER	kW/kW	3.75	4.00	3.70	3.35
Heating ² (Rated)	Capacity	kW	45.0	50.0	56.0	61.5
		kBut/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
		kBut/h	170.6	191.1	215.0	235.4
	Power input	kW	11.76	12.84	15.29	17.78
	COP	kW/kW	4.25	4.36	4.12	3.88
Connectable Indoor Unit	Total capacity	50-130% of outdoor unit capacity				
	Max. quantity	26	29	33	36	
Compressors	Type	DC inverter				
	Quantity	1				
Fan motors	Type	DC				
	Quantity	1				
	Max. ESP	Pa	20 default; 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)	65		66	
Sound power level		dB(A)		88		
Net dimensions (WxHxD)		mm	1340x1635x850		1340x1635x825	
Packed dimensions (WxHxD)		mm			1405x1805x910	
Net weight		kg	277		348	
Gross weight		kg	304		368	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-25 to 24			

Notes:

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

VRF MDV6 Series - Heat

380~415V, 3N, 50Hz

Capacity		HP	24	26	28
Model			MDVO-V6670V2R1BE	MDVO-V6730V2R1BE	MDVO-V6785V2R1BE
Power supply		V/N/Hz	380-415/3/50		
Cooling ¹	Capacity	kW	67.0	73.0	78.5
		kBut/h	228.6	249.1	267.8
	Power input	kW	18.1	20.9	24.2
	EER	kW/kW	3.70	3.49	3.25
Heating ² (Rated)	Capacity	kW	67.0	73.0	78.5
		kBut/h	228.6	249.1	267.8
	Power input	kW	15.33	18.11	21.16
	COP	kW/kW	4.37	4.03	3.71
Heating ² (Max)	Capacity	kW	75.0	81.5	87.5
		kBut/h	255.9	278.1	298.6
	Power input	kW	18.56	21.68	26.04
	COP	kW/kW	4.04	3.76	3.36
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)	67		68
Sound power level		dB(A)	89		90
Net dimensions (WxHxD)		mm	1730 x 1830 x 850		
Packed dimensions (WxHxD)		mm	1800x2000x910		
Net weight		kg	430		
Gross weight		kg	453		
Ambient temp. operating range	Cooling	°C	-5 to 48		
	Heating	°C	-25 to 24		

Capacity		HP	30	32
Model			MDVO-V6850V2R1BE	MDVO-V6900V2R1BE
Power supply		V/N/Hz	380-415/3/50	
Cooling ¹	Capacity	kW	85.0	90.0
		kBut/h	290.0	307.1
	Power input	kW	27.4	31.0
	EER	kW/kW	3.10	2.90
Heating ² (Rated)	Capacity	kW	85.0	90.0
		kBut/h	290.0	307.1
	Power input	kW	22.9	25.7
	COP	kW/kW	3.71	3.50
Heating ² (Max)	Capacity	kW	95.0	100.0
		kBut/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)	68	
Sound power level		dB(A)	90	
Net dimensions (WxHxD)		mm	1730 x 1830 x 850	
Packed dimensions (WxHxD)		mm	1800x2000x910	
Net weight		kg	475	
Gross weight		kg	507	
Ambient temp. operating range	Cooling	°C	-5 to 48	
	Heating	°C	-25 to 24	

Notes:

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

VRF MDV6 Series - Heat

380~415V, 3N, 50Hz

Capacity		HP	34	36	38	40
Model			MDVO-V6950V2R1BE	MDVO-V61015V2R1BE	MDVO-V61065V2R1BE	MDVO-V61120V2R1BE
Combination type			12HP+22HP	14HP+22HP	16HP+22HP	12HP+28HP
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	95.0	101.5	106.5	112.0
		kBut/h	324.1	346.3	363.4	382.1
	Power input	kW	27.1	28.2	30.4	32.9
	EER	kW/kW	3.51	3.59	3.51	3.41
Heating ² (Rated)	Capacity	kW	95.0	101.5	106.5	112.0
		kBut/h	324.1	346.3	363.4	382.1
	Power input	kW	21.6	23.5	24.8	27.7
	COP	kW/kW	4.40	4.32	4.30	4.04
Heating ² (Max)	Capacity	kW	106.5	114.0	119.0	125.0
		kBut/h	363.4	389.0	406.0	426.5
	Power input	kW	25.66	28.06	29.55	33.92
	COP	kW/kW	4.15	4.06	4.03	3.69
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		56	59	63	64
Compressors	Type		DC inverter			
	Quantity		3			
Fan motors	Type		DC			
	Quantity		3			
Refrigerant	Type		R410A			
	Factory charge	kg	13+17			
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ31.8		Φ38.1	
Airflow rate		m ³ /h	28000		30000	
Sound pressure level ⁴		dB(A)	69			
Sound power level		dB(A)	91			
Net dimensions (WxHxD)		mm	(990×1635×790)+(1340×1635×825)		(1340×1635×850)+(1340×1635×825)	
Packed dimensions (WxHxD)		mm	(1090×1805×860)+(1405×1805×910)		(1090×1805×860)+(1800×2000×910)	
Net weight		kg	227+348		277+348	
Gross weight		kg	242+368		304+368	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-25 to 24			

Capacity		HP	42	44	46	48
Model			MDVO-V61175V2R1BE	MDVO-V61230V2R1BE	MDVO-V61285V2R1BE	MDVO-V61345V2R1BE
Combination type			20HP+22HP	22HP+22HP	22HP+24HP	22HP+26HP
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	117.5	123.0	128.5	134.5
		kBut/h	400.9	419.7	438.4	458.9
	Power input	kW	33.5	36.7	36.5	39.3
	EER	kW/kW	3.51	3.35	3.52	3.43
Heating ² (Rated)	Capacity	kW	117.5	123.0	128.5	134.5
		kBut/h	400.9	419.7	438.4	458.9
	Power input	kW	27.7	30.0	30.43	33.21
	COP	kW/kW	4.24	4.10	4.22	4.05
Heating ² (Max)	Capacity	kW	132.0	138.0	144.0	150.5
		kBut/h	450.4	470.9	491.3	513.5
	Power input	kW	33.07	35.57	36.35	39.46
	COP	kW/kW	3.99	3.88	3.96	3.81
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		64			
Compressors	Type		DC inverter			
	Quantity		4			
Fan motors	Type		DC			
	Quantity		4			
Refrigerant	Type		R410A			
	Factory charge	kg	17×2		17+22	
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ38.1		Φ38.1	
Airflow rate		m ³ /h	34000		42000	
Sound pressure level ⁴		dB(A)	70			
Sound power level		dB(A)	92			
Net dimensions (WxHxD)		mm	(1340×1635×825)×2		(1340×1635×825)+(1730×1830×850)	
Packed dimensions (WxHxD)		mm	(1405×1805×910)×2		(1405×1805×910)+(1800×2000×910)	
Net weight		kg	348×2		348+430	
Gross weight		kg	368×2		368+453	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-25 to 24			

Notes:

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

VRF MDV6 Series - Heat

380~415V, 3N, 50Hz

Capacity		HP	50	52	54	56
Model			MDVO-V61400V2R1BE	MDVO-V61460V2R1BE	MDVO-V61515V2R1BE	MDVO-V61570V2R1BE
Combination type			22HP+28HP	26HP+26HP	26HP+28HP	28HP+28HP
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	140.0	146.0	151.5	157.0
		kBut/h	477.7	498.2	516.9	535.7
	Power input	kW	42.5	41.8	45.1	48.3
	EER	kW/kW	3.29	3.49	3.36	3.25
Heating ² (Rated)	Capacity	kW	140.0	146.0	151.5	157.0
		kBut/h	477.7	498.2	516.9	535.7
	Power input	kW	36.2	36.22	39.3	42.3
	COP	kW/kW	3.87	4.03	3.86	3.71
Heating ² (Max)	Capacity	kW	156.5	163.0	169.0	175.0
		kBut/h	534.0	556.2	576.6	597.1
	Power input	kW	43.83	43.35	47.72	52.08
	COP	kW/kW	3.57	3.76	3.54	3.36
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		64			
Compressors	Type		DC inverter			
	Quantity		4			
Fan motors	Type		DC			
	Quantity		4			
Refrigerant	Type		R410A			
	Factory charge	kg	17+22		22×2	
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ38.1		Φ41.3	
Airflow rate		m ³ /h	42000		50000	
Sound pressure level ⁴		dB(A)	70			
Sound power level		dB(A)	92			
Net dimensions (WxHxD)		mm	(1340×1635×825)+(1730×1830×850)		(1730×1830×850)×2	
Packed dimensions (WxHxD)		mm	(1405×1805×910)+(1800×2000×910)		(1800×2000×910)×2	
Net weight		kg	348+430		430×2	
Gross weight		kg	368+453		453×2	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-25 to 24			

Capacity		HP	58	60	62	64
Model			MDVO-V61635V2R1BE	MDVO-V61685V2R1BE	MDVO-V61750V2R1BE	MDVO-V61800V2R1BE
Combination type			28HP+30HP	28HP+32HP	30HP+32HP	32HP+32HP
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	163.5	168.5	175.0	180.0
		kBut/h	557.9	574.9	597.1	614.2
	Power input	kW	51.6	55.2	58.5	62.1
	EER	kW/kW	3.17	3.05	2.99	2.90
Heating ² (Rated)	Capacity	kW	163.5	168.5	175.0	180.0
		kBut/h	557.9	574.9	597.1	614.2
	Power input	kW	44.1	46.9	48.7	51.4
	COP	kW/kW	3.70	3.59	3.59	3.50
Heating ² (Max)	Capacity	kW	182.5	187.5	195.0	200.0
		kBut/h	622.7	639.8	665.3	682.4
	Power input	kW	53.82	56.72	58.45	61.35
	COP	kW/kW	3.39	3.31	3.34	3.26
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		64			
Compressors	Type		DC inverter			
	Quantity		4			
Fan motors	Type		DC			
	Quantity		4			
Refrigerant	Type		R410A			
	Factory charge	kg	22+25		25×2	
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ41.3		Φ41.3	
Airflow rate		m ³ /h	49000		48000	
Sound pressure level ⁴		dB(A)	70			
Sound power level		dB(A)	92			
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	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-25 to 24			

Notes:

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

VRF MDV6 Series - Heat

380~415V, 3N, 50Hz

Capacity		HP	66	68	70	72
Model			MDVO-V61850V2R1BE	MDVO-V61915V2R1BE	MDVO-V61965V2R1BE	MDVO-V62020V2R1BE
Combination type			12HP+22HP+32HP	14HP+22HP+32HP	16HP+22HP+32HP	12HP+28HP+32HP
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	185.0	191.5	196.5	202.0
		kBut/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 (Rated)	Capacity	kW	185.0	191.5	196.5	202.0
		kBut/h	631.2	653.4	670.5	689.2
	Power input	kW	47.3	49.2	50.5	53.4
	COP	kW/kW	3.91	3.89	3.89	3.78
Heating ² (Max)	Capacity	kW	206.5	214.0	219.0	225.0
		kBut/h	704.6	730.2	747.2	767.7
	Power input	kW	56.34	58.73	60.22	64.59
	COP	kW/kW	3.67	3.64	3.64	3.48
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				
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)			71		
Sound power level	dB(A)			93		
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	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-25 to 24			

Capacity		HP	74	76	78	80
Model			MDVO-V62075V2R1BE	MDVO-V62130V2R1BE	MDVO-V62185V2R1BE	MDVO-V62245V2R1BE
Combination type			20HP+22HP+32HP	22HP+22HP+32HP	22HP+24HP+32HP	22HP+26HP+32HP
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	207.5	213.0	218.5	224.5
		kBut/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 (Rated)	Capacity	kW	207.5	213.0	218.5	224.5
		kBut/h	708.0	726.8	745.5	766.0
	Power input	kW	53.4	55.7	56.13	58.91
	COP	kW/kW	3.88	3.82	3.89	3.81
Heating ² (Max)	Capacity	kW	232.0	238.0	244.0	250.5
		kBut/h	791.6	812.1	832.5	854.7
	Power input	kW	63.75	66.24	67.02	70.13
	COP	kW/kW	3.64	3.59	3.64	3.57
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				
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)			72		
Sound power level	dB(A)			94		
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	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-25 to 24			

Notes:

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

VRF MDV6 Series - Heat

380~415V, 3N, 50Hz

Capacity		HP	82	84	86	88
Model			MDVO-V62300V2R1BE	MDVO-V62360V2R1BE	MDVO-V62415V2R1BE	MDVO-V62470V2R1BE
Combination type			22HP+28HP+32HP	26HP+26HP+32HP	26HP+28HP+32HP	28HP+28HP+32HP
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	230.0	236.0	241.5	247.0
		kBut/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 (Rated)	Capacity	kW	230.0	236.0	241.5	247.0
		kBut/h	784.8	805.2	824.0	842.8
	Power input	kW	61.9	61.92	65.0	68.0
	COP	kW/kW	3.72	3.81	3.72	3.63
Heating ² (Max)	Capacity	kW	256.5	263.0	269.0	275.0
		kBut/h	875.2	897.4	917.8	938.3
	Power input	kW	74.50	74.03	78.39	82.76
	COP	kW/kW	3.44	3.55	3.43	3.32
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				
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)			72		
Sound power level	dB(A)			94		
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	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-25 to 24			

Capacity		HP	90	92	94	96
Model			MDVO-V62535V2R1BE	MDVO-V62585V2R1BE	MDVO-V62650V2R1BE	MDVO-V62700V2R1BE
Combination type			28HP+30HP+32HP	28HP+32HP+32HP	30HP+32HP+32HP	32HP+32HP+32HP
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	253.5	258.5	265.0	270.0
		kBut/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 (Rated)	Capacity	kW	253.5	258.5	265.0	270.0
		kBut/h	864.9	882.0	904.2	921.2
	Power input	kW	69.8	72.6	74.4	77.1
	COP	kW/kW	3.63	3.56	3.56	3.50
Heating ² (Max)	Capacity	kW	282.5	287.5	295.0	300.0
		kBut/h	963.9	981.0	1006.5	1023.6
	Power input	kW	84.49	87.39	89.13	92.02
	COP	kW/kW	3.34	3.29	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				
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)			72		
Sound power level	dB(A)			94		
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	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-25 to 24			

Notes:

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

Indoor Units
VRF indoor units

Fresh Air Processing Unit
100% fresh air supply

Ventilation
Heat recovery ventilator (HRV)

AHU Connection Kit
Connect to MDV or third party DX AHU

Control Systems
Smart control systems



VRF MDV6i 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)

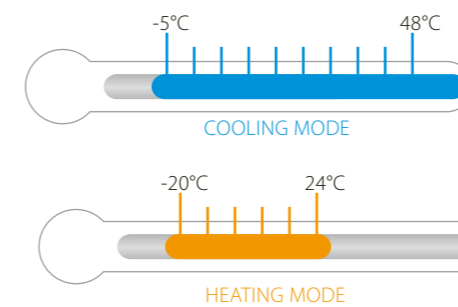
Wide Capacity Range

MDV6i 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.

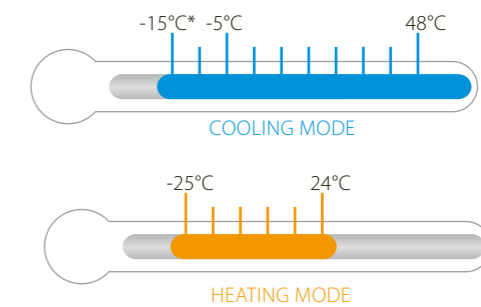
Side-discharge type	Top-discharge type			
7/8/9/10/12HP	8/10/12HP (with single fan)	14/16/18HP (with single fan)	20/22HP (with dual fans)	24/26/28/30/32HP (with dual fans)

Wide Operation Range

The MDV6i VRF can operate stably in a wide ambient temperature range.



Side-discharge type



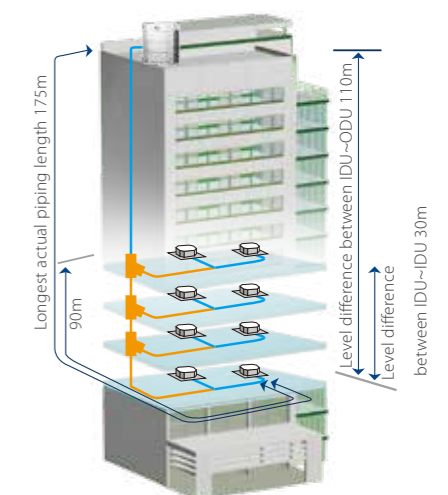
Top-discharge type

* 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 MDV6i Series - Heat Pump (Top-discharge type)

380~415V, 3N, 50Hz

Capacity		HP	8	10	12	14	16	18
Model			MDVO-V6i252V2R1BE	MDVO-V6i280V2R1BE	MDVO-V6i335V2R1BE	MDVO-V6i400V2R1BE	MDVO-V6i450V2R1BE	MDVO-V6i500V2R1BE
Power supply		V/Ph/Hz	380-415/3/50			380-415/3/50		
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	6.19	7.14	8.9	11	12.9	14.7
		EER	4.07	3.92	3.75	3.65	3.5	3.4
Heating ² (Rated)	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	5.10	5.77	7.6	9.3	10.7	12.2
		COP	4.94	4.85	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	5.71	6.91	9.13	11.23	12.89	14.72
		COP	4.73	4.56	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						
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		
Airflow rate	m ³ /h	11000			13000			
Sound pressure level ⁴	dB(A)	58	58	60	62	65	65	
Sound power level	dB(A)	78	78	81	85	88	88	
Net dimensions (WxHxD)	mm	990x1635x790			1340x1635x850			
Packed dimensions (WxHxD)	mm	1090x1805x860			1405x1805x910			
Net weight	kg	227			277			
Gross weight	kg	242			304			
Ambient temp. operating range	Cooling	°C	-5 to 48					
	Heating	°C	-25 to 24					

Capacity		HP	20	22
Model			MDVO-V6i560V2R1BE	MDVO-V6i615V2R1BE
Power supply		V/Ph/Hz	380-415/3/50	
Cooling ¹	Capacity	kW	56	61.5
		kBtu/h	191.1	209.8
	Power input	kW	16	20.2
		EER	3.5	3.05
Heating ² (Rated)	Capacity	kW	56	61.5
		kBtu/h	191.1	209.8
	Power input	kW	13.8	17.6
		COP	4.05	3.5
Heating ² (Max)	Capacity	kW	63.0	69.0
		kBtu/h	215.0	235.4
	Power input	kW	16.61	20.83
		COP	3.79	3.31
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity		
	Maximum quantity		33	36
Compressors	Type	DC inverter		
	Quantity	2		
Fan motors	Type	DC		
	Quantity	2		
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)	66		
Sound power level	dB(A)	88		
Net dimensions (WxHxD)	mm	1340x1635x825		
Packed dimensions (WxHxD)	mm	1405x1805x910		
Net weight	kg	344		
Gross weight	kg	364		
Ambient temp. operating range	Cooling	°C	-5 to 48	
	Heating	°C	-25 to 24	

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

Capacity		HP	24	26	28	30	32
Model			MDVO-V6i670V2R1BE	MDVO-V6i730V2R1BE	MDVO-V6i785V2R1BE	MDVO-V6i850V2R1BE	MDVO-V6i900V2R1BE
Power supply		V/Ph/Hz	380-415/3/50				
Cooling ¹	Capacity	kW	67	73	78.5	85	90
		kBtu/h	228.6	249.1	267.8	290	307.1
	Power input	kW	21.6	21.6	24.9	28.3	32.1
		EER	3.1	3.4	3.15	3	2.8
Heating ² (Rated)	Capacity	kW	67	73	78.5	85	90
		kBtu/h	228.6	249.1	267.8	290	307.1
	Power input	kW	17.27	18.58	22.49	24.3	26.5
		COP	3.88	3.93	3.49	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	20.91	22.23	27.53	29.37	31.58
		COP	3.59	3.67	3.18	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					
Refrigerant	Type	R410A					
	Factory charge	kg	22			25	
Pipe connections ³	Liquid pipe	mm	Φ19.1	Φ22.2		Φ38.1	
	Gas pipe	mm	Φ31.8			Φ38.1	
Airflow rate	m ³ /h	25000			24000		
Sound pressure level ⁴	dB(A)	67	68		90		
Sound power level	dB(A)	89	90				
Net dimensions (WxHxD)	mm	1730x1830x850			1800x2000x910		
Packed dimensions (WxHxD)	mm	1730x1830x850			1800x2000x910		
Net weight	kg	407	429		475		
Gross weight	kg	430	452		507		
Ambient temp. operating range	Cooling	°C	-5 to 48				
	Heating	°C	-25 to 24				

VRF MDV6i Series - Heat Pump (Side-discharge type)

380~415V, 3N, 50Hz

Capacity		HP	7	8	9	10	12
Model			MDVO-V6iS200V2R1BE	MDVO-V6iS224V2R1BE	MDVO-V6iS260V2R1BE	MDVO-V6iS280V2R1BE	MDVO-V6iS335V2R1BE
Power supply		V/N/Hz	380-415/3/50				
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	4.90	6.83	9.63	12.28	14.38
		EER	4.08	3.28	2.70	2.32	2.33
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	4.21	4.98	5.53	6.16	8.1
		COP	4.75	4.50	4.70	4.63	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	6.59	6.67	7.43	7.41	9.08
		COP	3.41	3.75	3.83	4.25	4.13
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 (WxHxD)	mm	1120x1558x528					
Packed dimensions (WxHxD)	mm	1270x1720x565					
Net weight	kg	143	143	144	144	157	
Gross weight	kg	159	159	160	160	173	
Operating temperature range	Cooling	°C	-5 to 48				
	Heating	°C	-20 to 24				

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



Indoor Units
VRF indoor units



Ventilation
Heat recovery ventilator (HRV)



Control Systems
Smart control systems

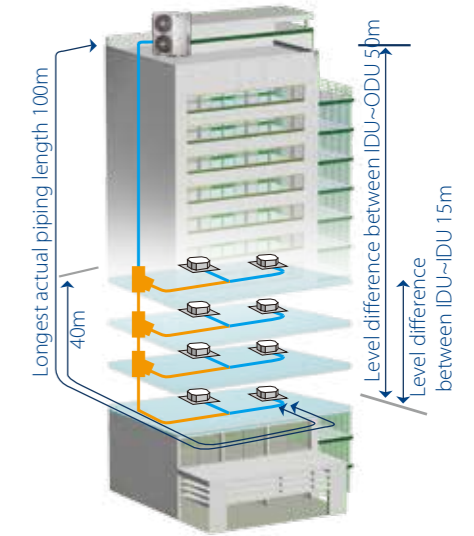


AHU Connection Kit
Connect to Midea or third party DX AHU



Long Piping Capability

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



VRF MDV4I 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

MDV4i - Heat Pump

HP		14	16	
Model		MDVO-V4iS400V2R1BE	MDVO-V4iS450V2R1BE	
Power supply	V/N/Hz	380-415/3/50		
Cooling ¹	Capacity	kW	40.0	45.0
	Power input	kW	15.09	13.55
	EER		2.65	3.32
Heating ²	Capacity	kW	40.0	45.0
	Power input	kW	10.0	11.11
	COP		4.00	4.05
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity		
	Max. quantity	23	26	
Compressor	Type	DC inverter		
	Quantity	2		
Fan motor	Type	DC motor		
	Quantity	2		
Refrigerant	Type	R410A		
	Factory charging	kg	9	12
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7
	Gas pipe	mm	Φ22.2	Φ25.4
Air flow rate	m ³ /h	16575	16575	
Sound power level ³	dB(A)	82	83	
Net dimension (WxHxD)	mm	1360x1650x540	1460x1650x540	
Packing size (WxHxD)	mm	1450x1785x560	1550x1785x560	
Net weight	kg	240	275	
Gross weight	kg	260	290	
Operating temperature range	°C	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 MDV or third party DX AHU



VRF Mini Series Heat Pump

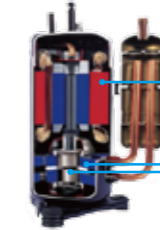
Optimized design for small buildings

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

DC Inverter Compressor

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

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

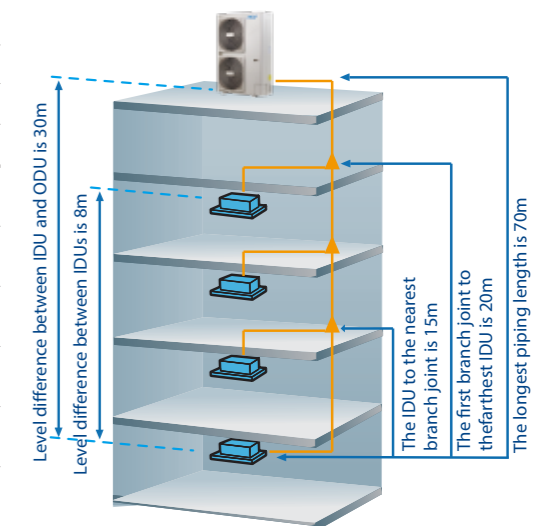
Wide Capacity Range

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

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

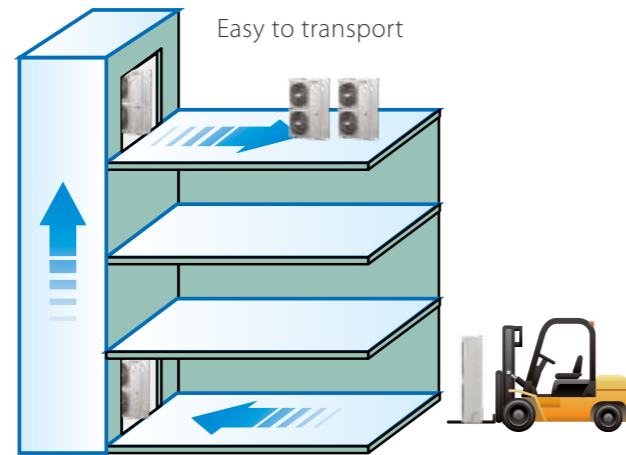


More Convenient Piping Connector – Branch Box

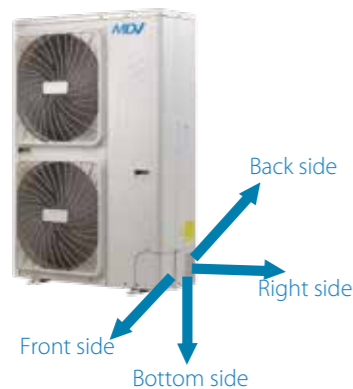


Easy Installation

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



Four-Way Piping Connection



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

Mini VRF (Standard Series) - Heat Pump 380~415V, 3N, 50Hz

Model		MDVO-Mi120V2R1B(A)	MDVO-Mi140V2R1B(A)	MDVO-Mi160V2R1B(A)	MDVO-Mi180V2R1B(A)	
Power supply	V/N/Hz	380-415/3/50				
Cooling	Capacity	kW	12.3	14	15.5	17.5
	Power input	kW	3.25	3.85	4.39	5.47
	EER		3.78	3.64	3.53	3.2
Heating	Capacity	kW	13.2	15.4	17	19
	Power input	kW	3.47	4.05	4.58	5
	COP		3.8	3.8	3.71	3.8
Connectable	Total capacity	45~130% of outdoor unit capacity				
indoor unit	Max. quantity	6	6	7	9	
Compressor	Type	DC Inverter				
	Quantity	1				
Fan motor	Type	DC				
	Quantity	2				
Refrigerant	Type	R410A				
	Factory charging	kg	3.3	3.9	3.9	4.5
Pipe connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9		Φ19.1	
Air flow rate	m ³ /h	6000			6800	
Sound power level	dB(A)	72	73	73	74	
Net dimension (W×H×D)	mm	900×1327×400				
Packing size (W×H×D)	mm	1030×1456×435				
Net weight	kg	95	102	107	118	
Gross weight	kg	106	113	118	125	
Operating temperature range	°C	Cooling: -15~43; Heating: -15~27				

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

Mini VRF (Standard Series) - Heat Pump

380~415V, 3N, 50Hz

Model			MDVO-Mi120V2R1A(B)	MDVO-Mi140V2R1A(B)	MDVO-Mi160V2R1A(B)
Power supply		V/N/Hz	380-415/3/50		
Cooling	Capacity	kW	12.5	14	16
	Power input	kW	3.31	3.74	4.47
	EER		3.78	3.74	3.58
Heating	Capacity	kW	14	16	17.5
	Power input	kW	3.68	4.21	4.72
	COP		3.8	3.8	3.71
Connectable indoor unit	Total capacity	45~130% of outdoor unit capacity			
	Max. quantity		7	8	9
Compressor	Type	DC Inverter			
	Quantity		1		
Fan motor	Type	DC			
	Quantity		2		
Refrigerant	Type	R410A			
	Factory charging	kg	2.8	3.2	3.8
Pipe connections	Liquid pipe	mm	Φ9.53		
	Gas pipe	mm	Φ15.9	Φ19.1	
Air flow rate		m ³ /h	6000		
Sound power level		dB(A)	72	73	73
Net dimension (WxHxD)		mm	900x1327x400		
Packing size (WxHxD)		mm	1030x1456x435		
Net weight		kg	95	99	100
Gross weight		kg	105	109	110
Operating temperature range		°C	Cooling: -15~46; 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 (Mini C series) - Heat Pump

220~240V, 1N, 50Hz

HP			3	4	4.5
Model			MDVO-Mi80V2R1EE(C)	MDVO-Mi100V2R1EE(C)	MDVO-Mi120V2R1EE(C)
Power supply		V/N/Hz	220-240/1/50		
Cooling ¹	Capacity	kW	7.2	9.0	12.2
		kBtu/h	24.6	30.7	40.9
	Power input	kW	2.18	2.64	4.32
	EER		3.30	3.41	2.83
Heating ²	Capacity	kW	7.2	9.0	14.0
		kBtu/h	24.6	30.7	47.8
	Power input	kW	1.82	2.10	3.17
	COP		3.95	4.29	4.40
Connectable indoor unit	Total capacity	45~130% of outdoor unit capacity			
	Max. quantity		4	6	7
Compressor	Type	DC inverter			
	Quantity		1		
Fan motor	Type	DC			
	Quantity		1		
Refrigerant	Type	R410A			
	Factory charge	kg	2.2	2.35	3
Pipe connections ³	Liquid pipe	mm	Φ9.53		
	Gas pipe	mm	Φ15.9		
Airflow rate		m ³ /h	3700	5200	5000
Sound pressure level		dB(A)	54	54	56
Net dimensions (WxHxD)		mm	982x712x440	950x840x426	
Packed dimensions (WxHxD)		mm	1048x810x485	1025x950x510	
Net weight		kg	55	72.5	84
Gross weight		kg	59.5	82	93
Operating temperature range		°C	Cooling: -5~55, Heating: -15~27		

HP			5	6
Model			MDVO-Mi140V2R1EE(C)	MDVO-Mi160V2R1EE(C)
Power supply		V/N/Hz	220-240/1/50	
Cooling ¹	Capacity	kW	14.0	15.5
		kBtu/h	47.8	52.9
	Power input	kW	4.56	5.35
	EER		3.07	2.90
Heating ²	Capacity	kW	16.0	18.0
		kBtu/h	54.6	61.4
	Power input	kW	4.08	5.71
	COP		3.92	3.20
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 (WxHxD)		mm	1040x865x523	
Packed dimensions (WxHxD)		mm	1120x980x560	
Net weight		kg	91.4	95.4
Gross weight		kg	101.4	105.4
Operating temperature range		°C	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.

Indoor Units
VRF indoor units

Fresh Air Processing Unit
100% fresh air supply

Ventilation
Heat recovery ventilator (HRV)

AHU Connection Kit
Connect to MDV or third party DX AHU

Control Systems
Smart control systems



VRF MDV6R 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

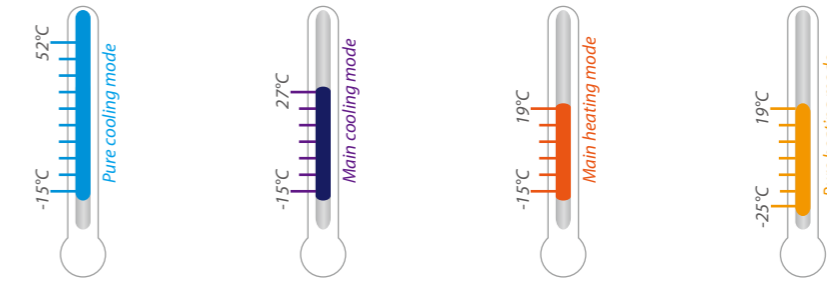
Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 54HP, which is perfect for small to large buildings.



Wide Operation Range

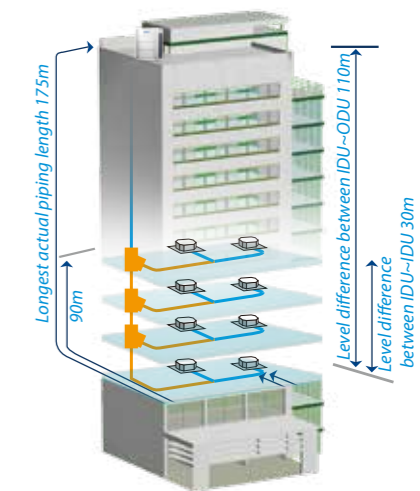
The MDV6R VRF system has a wide operation range in cooling mode, heating mode and simultaneous cooling and heating mode.



Long Piping Capability

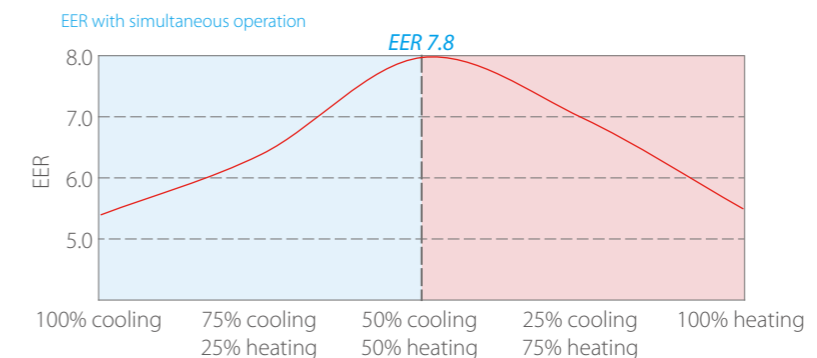
Piping length	Capability (m)
Total piping length	1000
Longest piping length-actual (equivalent)	175 (200)
Longest piping length after first branch	40/90*
Largest level difference between IDUs and ODU-ODU up (down)	110 (110)
Largest level difference between IDUs	30

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



Heat Recovery, Maximum Energy Saving

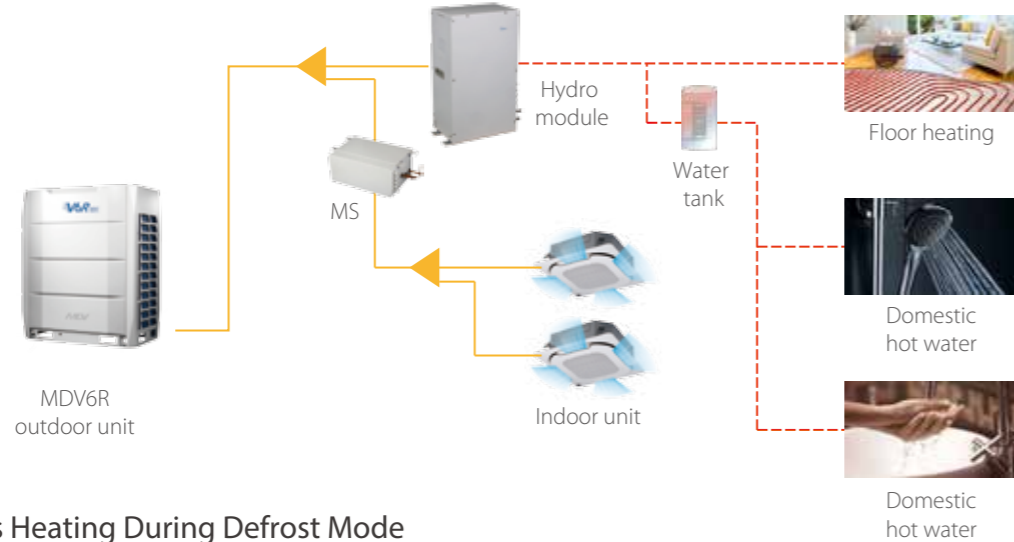
MDV6R Heat Recovery system can perform both cooling and heating operation simultaneously in one system. Heat recovery is achieved by diverting exhaust heat from indoor units in cooling mode to areas requiring heating. As a result of this, energy efficiency is maximized and electricity costs are reduced. 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 MDV6R 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

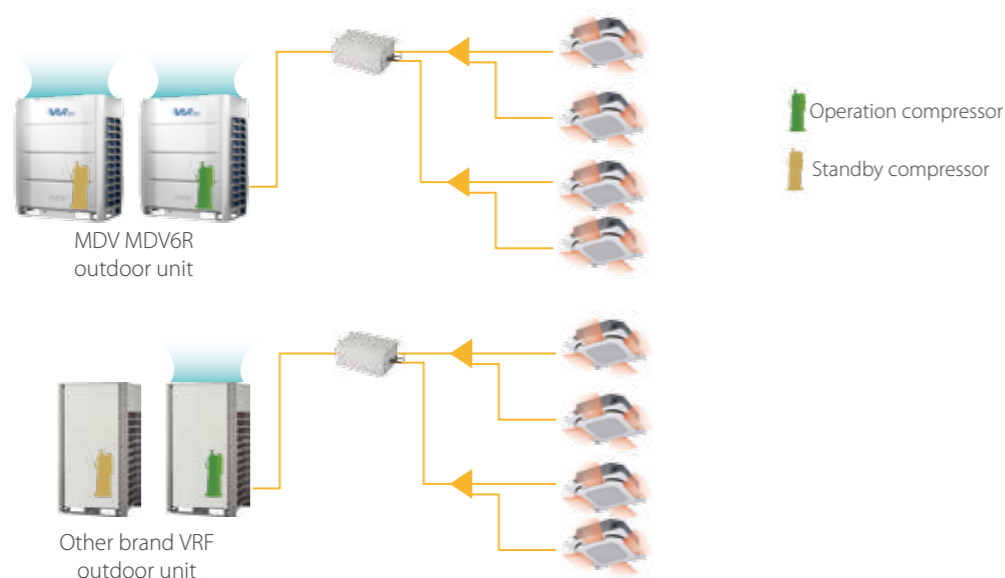
Normally, it is necessary to stop the heating operation during defrosting. However, the continuous heating operation method makes it possible to perform defrosting while the heating operation continues. With the combination model, units perform defrosting alternately. While one unit is performing defrosting,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



Note: This function is only available when the indoor units connected in MDV6R 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.

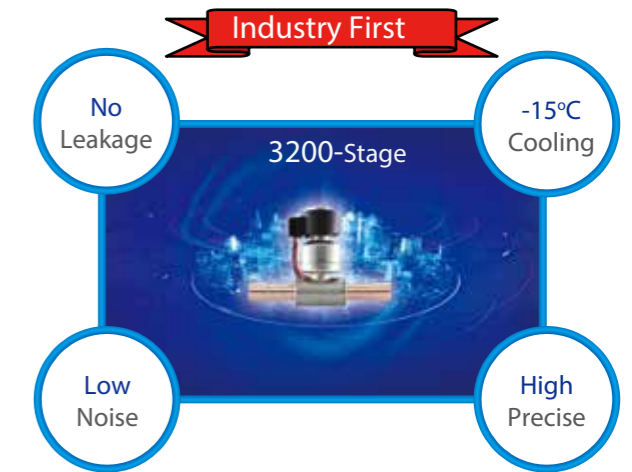


Intelligent MS Box

The MDV6R 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.

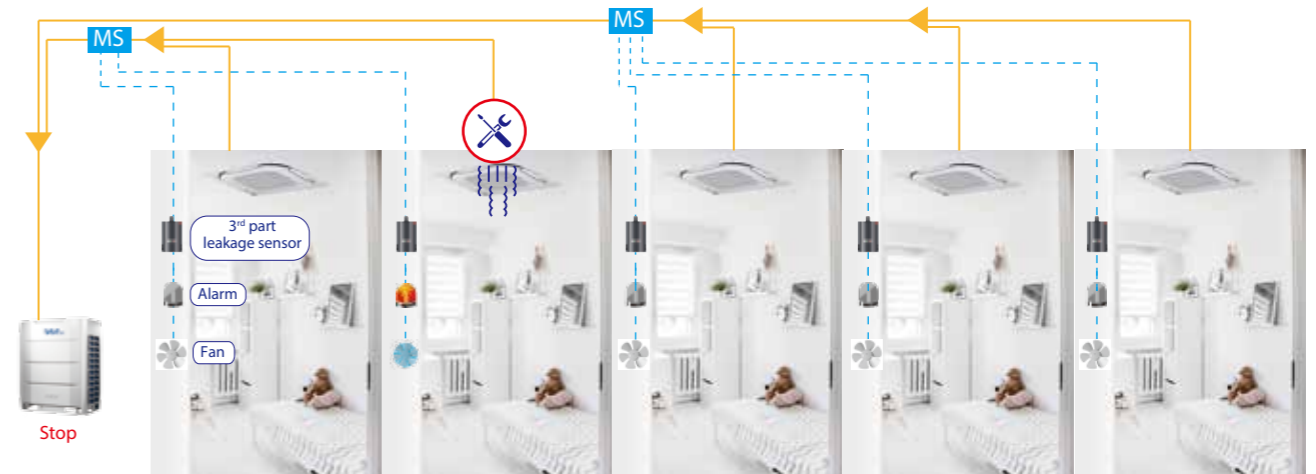
● Single Port

- ▶ 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 MDV6R Series - Heat Recovery

380~415V, 3N, 50Hz

HP			8	10	12	14	16	18	
Model name			MDVO-V6R252V2R1BE	MDVO-V6R280V2R1BE	MDVO-V6R335V2R1BE	MDVO-V6R400V2R1BE	MDVO-V6R450V2R1BE	MDVO-V6R500V2R1BE	
Power supply	V/N/Hz		380-415/3/50						
Cooling ¹	Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0	
	Power input	kW	5.25	7.18	8.64	9.83	12.00	13.81	
	EER		4.27	3.90	3.88	4.07	3.75	3.62	
Heating ² (Rated)	Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0	
	Power input	kW	3.96	5.46	6.57	8.26	9.78	11.90	
	COP		5.66	5.13	5.10	4.84	4.60	4.20	
Heating ² (Max)	Capacity	kW	25.0	31.5	37.5	45.0	50.0	56.0	
	Power input	kW	4.69	7.12	9.48	9.78	12.26	14.77	
	COP		5.33	4.43	3.95	4.60	4.08	3.79	
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							
	Static pressure	Pa	0,20,40,60,80(Selectable)						
	Air flow rate	m ³ /h	9000	9500	10000	14000	14900	15800	
Refrigerant	Type	R410A							
Pipe connections ³	Factory charge	kg	8						
	Liquid pipe	mm	Φ12.7						
Sound pressure level ⁴	Low pressure gas pipe	mm	Φ25.4						
	High pressure gas pipe	mm	Φ19.1						
Sound power level ⁴	dB(A)	58	58	60	61	64	65		
Net dimensions (WxHxD)	mm	990x1635x790							
Packed dimensions (WxHxD)	mm	1090x1805x860							
Net weight	kg	232							
Gross weight	kg	248							
Ambient temp. operation range	Cooling	°C(DB)	-15 ~ 52						
	Heating	°C(WB)	-25 ~ 19						
	Domestic hot water	°C(DB)	-20 ~ 43						

HP			20	22	24	
Model name			MDVO-V6R560V2R1BE	MDVO-V6R615V2R1BE	MDVO-V6R680V2R1BE	
Combination type			10HP+10HP	10HP+12HP	10HP+14HP	
Power supply	V/N/Hz		380-415/3/50			
Cooling ¹	Capacity	kW	56.0	61.5	68.0	
	Power input	kW	14.36	15.82	17.01	
	EER		3.90	3.89	4.00	
Heating ² (Rated)	Capacity	kW	56.0	61.5	68.0	
	Power input	kW	10.92	12.03	13.72	
	COP		5.13	5.11	4.96	
Heating ² (Max)	Capacity	kW	63.0	69.0	76.5	
	Power input	kW	14.24	16.60	16.90	
	COP		4.43	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				
	Static pressure	Pa	0,20,40,60,80(Selectable)			
	Air flow rate	m ³ /h	19000	19500	23500	
Refrigerant	Type	R410A				
Pipe connections ³	Factory charge	kg	16			
	Liquid pipe	mm	Φ15.9			
Sound pressure level ⁴	Low pressure gas pipe	mm	Φ28.6			
	High pressure gas pipe	mm	Φ28.6			
Sound power level ⁴	dB(A)	61	62	63		
Net dimensions (WxHxD)	mm	(990x1635x790)x2				
Packed dimensions (WxHxD)	mm	(1090x1805x860)x2				
Net weight	kg	232x2				
Gross weight	kg	248x2				
Ambient temp. operation range	Cooling	°C(DB)	-15 ~ 52			
	Heating	°C(WB)	-25 ~ 19			
	Domestic hot water	°C(DB)	-20 ~ 43			

Notes:

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

VRF MDV6R Series - Heat Recovery

380~415V, 3N, 50Hz

HP			26	28	30	
Model name			MDVO-V6R735V2R1BE	MDVO-V6R785V2R1BE	MDVO-V6R835V2R1BE	
Combination type			12HP+14HP	12HP+16HP	12HP+18HP	
Power supply	V/N/Hz		380-415/3/50			
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 (Rated)	Capacity	kW	73.5	78.5	83.5	
	Power input	kW	14.83	16.35	18.47	
	COP		4.96	4.80	4.52	
Heating ² (Max)	Capacity	kW	82.5	87.5	93.5	
	Power input	kW	19.27	21.74	24.25	
	COP		4.28	4.02	3.86	
Connected indoor unit	Total capacity	50-200% of outdoor unit capacity				
	Maximum quantity	64				
Compressor	Type	DC inverter				
	Quantity	2				
Fan	Type	Propeller				
	Motor type	DC				
	Quantity	3				
	Static pressure	Pa	0,20,40,60,80(Selectable)			
	Air flow rate	m ³ /h	24000	24900	25800	
Refrigerant	Type	R410A				
Pipe connections ³	Factory charge	kg	18			
	Liquid pipe	mm	Φ19.1			
Sound pressure level ⁴	Low pressure gas pipe	mm	Φ34.9			
	High pressure gas pipe	mm	Φ28.6			
Sound power level ⁴	dB(A)	64	65	66		
Net dimensions (WxHxD)	mm	990x1635x790+1340x1635x825				
Packed dimensions (WxHxD)	mm	1090x1805x860+1405x1805x910				
Net weight	kg	232+300				
Gross weight	kg	248+325				
Ambient temp. operation range	Cooling	°C (DB)	-15 ~ 52			
	Heating	°C (WB)	-25 ~ 19			
	Domestic hot water	°C (DB)	-20 ~ 43			

HP			32	34	36	
Model name			MDVO-V6R900V2R1BE	MDVO-V6R950V2R1BE	MDVO-V6R1000V2R1BE	
Combination type			16HP+16HP	16HP+18HP	18HP+18HP	
Power supply	V/N/Hz		380-415/3/50			
Cooling ¹	Capacity	kW	90.0	95.0	100.0	
	Power input	kW	24.00	25.81	28.72	
	EER		3.75	3.68	3.48	
Heating ² (Rated)	Capacity	kW	90.0	95.0	100.0	
	Power input	kW	19.57	21.69	21.83	
	COP		4.60	4.38	4.58	
Heating ² (Max)	Capacity	kW	100.0	106.0	112.0	
	Power input	kW	24.52	27.03	29.54	
	COP		4.08	3.92	3.79	
Connected indoor unit	Total capacity	50-200% of outdoor unit capacity				
	Maximum quantity	64				
Compressor	Type	DC inverter				
	Quantity	2				
Fan	Type	Propeller				
	Motor type	DC				
	Quantity	4				
	Static pressure	Pa	0,20,40,60,80(Selectable)			
	Air flow rate	m ³ /h	29800	30700	31600	
Refrigerant	Type	R410A				
Pipe connections ³	Factory charge	kg	20			
	Liquid pipe	mm	Φ19.1			
Sound pressure level ⁴	Low pressure gas pipe	mm	Φ34.9			
	High pressure gas pipe	mm	Φ28.6			
Sound power level ⁴	dB(A)	67	68	68		
Net dimensions (WxHxD)	mm	(1340x1635x825)x2				
Packed dimensions (WxHxD)	mm	(1405x1805x910)x2				
Net weight	kg	300x2				
Gross weight	kg	325x2				
Ambient temp. operation range	Cooling	°C (DB)	-15 ~ 52			
	Heating	°C (WB)	-25 ~ 19			
	Domestic hot water	°C (DB)	-20 ~ 43			

Notes:

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

VRF MDV6R Series - Heat Recovery

380~415V, 3N, 50Hz

HP	38		40		42		44			
Model name	MDVO-V6R1070V2R1BE		MDVO-V6R1120V2R1BE		MDVO-V6R1185V2R1BE		MDVO-V6R1235V2R1BE			
Combination type	12HP+12HP+14HP		12HP+12HP+16HP		12HP+14HP+16HP		12HP+16HP+16HP			
Power supply	V/N/Hz		380-415/3/50							
Cooling ¹	Capacity	kW	107.0	112.0	118.5	123.5				
	Power input	kW	27.10	29.27	30.46	32.64				
	EER		3.95	3.83	3.89	3.78				
Heating ² (Rated)	Capacity	kW	107.0	112.0	118.5	123.5				
	Power input	kW	21.40	22.92	24.62	26.13				
	COP		5.00	4.89	4.81	4.73				
Heating ² (Max)	Capacity	kW	120.0	125.0	132.5	137.5				
	Power input	kW	28.75	31.23	31.53	34.01				
	COP		4.17	4.00	4.20	4.04				
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	4								
	Static pressure	Pa	0,20,40,60,80(Selectable)							
Refrigerant	Type	R410A								
	Factory charge	kq	26		28					
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)	65	67	67	68					
Sound power level ⁴	dB(A)	86	89	89	91					
Net dimensions (WxHxD)	mm	(990x1635x790)x2+1340x1635x825		990x1635x790+(1340x1635x825)x2						
Packed dimensions (WxHxD)	mm	(1090x1805x860)x2+1405x1805x910		1090x1805x860+(1405x1805x910)x2						
Net weight	kg	232x2+300		232+300x2						
Gross weight	kg	248x2+325		248+325x2						
Ambient temp. operation range	Cooling	°C (DB)	-15 ~ 52							
	Heating	°C (WB)	-25 ~ 19							
	Domestic hot water	°C (DB)	-20 ~ 43							

HP	46		48		50		52		54		
Model name	MDVO-V6R1300V2R1BE		MDVO-V6R1350V2R1BE		MDVO-V6R1400V2R1BE		MDVO-V6R1450V2R1BE		MDVO-V6R1500V2R1BE		
Combination type	14HP+16HP+16HP		16HP+16HP+16HP		16HP+16HP+18HP		16HP+18HP+18HP		18HP+18HP+18HP		
Power supply	V/N/Hz		380-415/3/50								
Cooling ¹	Capacity	kW	130.0	135.0	140.0	145.0	150.0				
	Power input	kW	33.83	36.00	37.81	39.62	41.44				
	EER		3.84	3.75	3.70	3.66	3.62				
Heating ² (Rated)	Capacity	kW	130.0	135.0	140.0	145.0	150.0				
	Power input	kW	27.83	29.35	31.47	33.59	35.71				
	COP		4.67	4.60	4.45	4.32	4.20				
Heating ² (Max)	Capacity	kW	145.0	150.0	156.0	162.0	168.0				
	Power input	kW	34.31	36.79	39.29	41.80	44.31				
	COP		4.23	4.08	3.97	3.88	3.79				
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)								
Refrigerant	Type	R410A									
	Factory charge	kq	43800		44700		45600		46500		47400
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)	68	69	69	69	70					
Sound power level ⁴	dB(A)	91	93	93	93	93					
Net dimensions (WxHxD)	mm	(1340x1635x825)x3									
Packed dimensions (WxHxD)	mm	(1405x1805x910)x3									
Net weight	kg	300x3									
Gross weight	kg	325x3									
Ambient temp. operation range	Cooling	°C (DB)	-15 ~ 52								
	Heating	°C (WB)	-25 ~ 19								
	Domestic hot water	°C (DB)	-20 ~ 43								

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

VRF MDV6R 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~50Hz						
Max. number of indoor unit groups	1	4	6	8	10	12	
Max. number of indoor units per group	8	5	5	5	5	5	
Max. number of downstream indoor units	8	20	30	40	47	47	
Max. capacity of each group of indoor units	kW	32	16	16	16	16	
Max. total capacity of all downstream indoor units	kW	32	49	63	85	85	
Pipe connections to ODU ¹	Liquid pipe	mm	Φ9.53/Φ12.7	Φ9.53/Φ12.7/Φ15.9/Φ19.1	Φ9.53/Φ12.7/Φ15.9/Φ19.1	Φ12.7/Φ15.9/Φ19.1/Φ22.2	Φ12.7/Φ15.9/Φ19.1/Φ22.2
	Low pressure gas pipe	mm	Φ15.9/Φ19.1/Φ22.2	Φ19.1/Φ22.2/Φ28.6	Φ19.1/Φ22.2/Φ28.6	Φ22.2/Φ28.6/Φ34.9	Φ22.2/Φ28.6/Φ34.9
	High pressure gas pipe	mm	Φ12.7/Φ15.9/Φ19.1	Φ15.9/Φ19.1/Φ22.2/Φ28.6	Φ15.9/Φ19.1/Φ22.2/Φ28.6	Φ19.1/Φ22.2/Φ28.6	Φ19.1/Φ22.2/Φ28.6
Pipe connections to IDU ¹	Liquid pipe	mm	Φ6.35/Φ9.53	Φ6.35/Φ9.53	Φ6.35/Φ9.53	Φ6.35/Φ9.53	Φ6.35/Φ9.53
	Gas pipe	mm	Φ12.7/Φ15.9	Φ12.7/Φ15.9	Φ12.7/Φ15.9	Φ12.7/Φ15.9	Φ12.7/Φ15.9
Sound pressure level ¹	dB(A)	40	44	45	47	47	47
Sound power level ¹	dB(A)	60	63	65	65	65	65
Net dimensions (WxHxD)	mm	440x195x296	668x250x574	668x250x574	974x250x574	974x250x574	974x250x574
Packed dimensions (WxHxD)	mm	740x275x405	1020x390x850	1020x390x850	1320x390x850	1320x390x850	1320x390x850
Net weight	kg	10.5	33	36	48	51	54
Gross weight	kg	14	58	61	79	82	85

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



VRF MDV6R Series - High temperature hydro

Model	SMK-D140HN1-3	
Power supply	220-240V~50Hz	
Heating Capacity ¹	kW	14
Operating temperature range	Heating	°C
	Domestic hot water	°C
Water temperature	°C	25~80
Water flow rate	Nominal (Min.-Max.)	m³/h
Allowable water pressure	Bar	1-10
Refrigerant	Type	R134a
	Factory charge	kg
Sound pressure level	dB(A)	44
Net dimensions (WxHxD)	mm	450x795x300
Packed dimensions (WxHxD)	mm	735x820x380
Net / Gross weight	kg	58 / 67.2
Refrigerant pipe	Connection type	Brazing
	Liquid pipe diameter	mm
	Gas pipe diameter	mm
Water pipe	Connection type	External thread
	Inlet pipe diameter	mm
	Outlet pipe diameter	mm
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

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



Inoor Unit Lineup

kW		1.5	1.8	2.2	2.8	3.6	4.5	5.6	7.1		8.0	9.0	10.0	11.2	12.5	14.0	16.0	20.0	25.0	28.0	40.0	45.0	56.0
Btu/h		5k	6k	7k	9k	12k	15k	19k	24k		27k	30k	34k	38k	42k	48k	55k	68k	85k	96k	136k	154k	191k
One-way Cassette			● ●	● ●	● ●	● ●	● ●	● ●	● ●														
Two-way Cassette				● ●	● ●	● ●	● ●	● ●	● ●														
Four-way Cassette					● ●	● ●	● ●	● ●	● ●		● ●	● ●	● ●	● ●		● ●	●						
Compact Four-way Cassette			1.7 ●	● ●	● ●	● ●	● ●	5.2															
Medium Static Pressure Duct			1.7	● ●	● ●	● ●	● ●	● ●	● ●		● ●	● ●		● ●		● ●	●						
High Static Pressure Duct									● ●		● ●	● ●		● ●		● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Wall Mounted			1.7	● ●	● ●	● ●	● ●	● ●	● ●		● ●	● ●											
Ceiling & Floor						● ●	● ●	● ●	● ●		● ●	● ●		● ●		● ●	●						
Floor Standing - Concealed				●	●	●	●	●	●		●												
Floor Standing - Exposed				●	●	●	●	●	●		●												
Console				●	●	●	●																
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 and Mini VRF Series.
 No controller is supplied inside the indoor unit package. Controllers must be purchased separately.

Indoor Unit Functions

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

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

One-way Cassette



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

Key Features

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

Note:
● equipped as standard

COMFORT

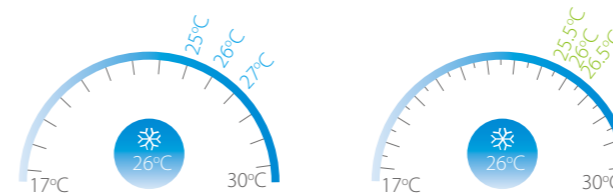
Quiet Operation

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



0.5°C/1°C Setting Temperature Adjustment

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



Digital Display On/Off

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



Buzzer Sound On/Off

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



HEALTH

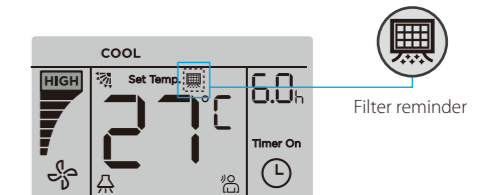
Fresh Air Intake

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



Dirty Filters Indicator Signal

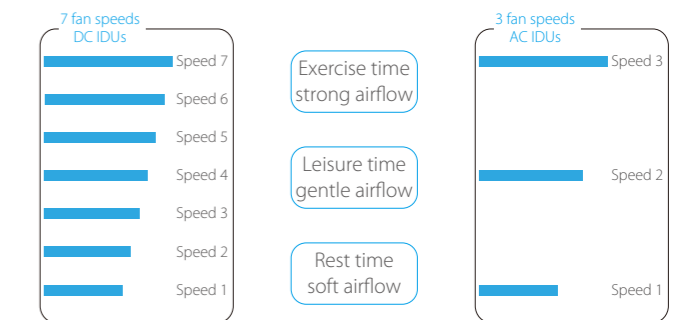
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

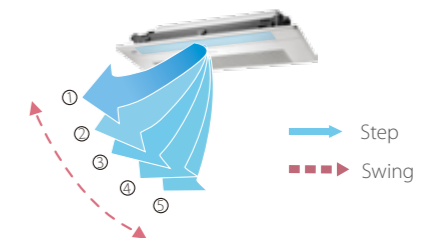
Multiple Fan Speeds

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



Multiple Steps Vertical Swing

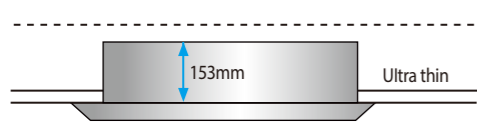
There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs.



EASY INSTALLATION

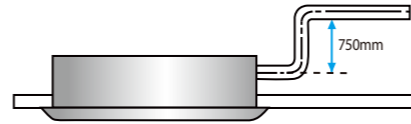
Easy Installation

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



High-lift Drain Pump

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



Specifications - DC Series

Model		MDVI-18C1VR1E	MDVI-22C1VR1E	MDVI-28C1VR1E	MDVI-36C1VR1E	
Power supply		1-phase, 220-240V, 50Hz				
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	m ³ /h	380/355/330/300/286/263/240		460/440/410/380/355/330/300		
Sound pressure level ³	dB(A)	30/28/27/26/25/24/22		37/36/35/34/32/31/30	38/37/35/34/32/31/30	
Sound power level	dB(A)	44/42/41/40/39/38/36		51/50/49/48/46/45/44	52/51/49/48/46/45/44	
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1054x153x425			
	Packed dimensions (WxHxD)	mm	1155x245x490			
	Net/Gross weight	kg	11.8/15.3	12.3/15.8		
Panel	Net dimensions (WxHxD)	mm	1180x25x465			
	Packed dimensions (WxHxD)	mm	1232x107x517			
	Net/Gross weight	kg	3.5/5.2			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ25			

Model		MDVI-45C1VR1E	MDVI-56C1VR1E	MDVI-71C1VR1E	
Power supply		1-phase, 220-240V, 50Hz			
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	m ³ /h	693/662/638/600/556/510/476	792/763/728/688/643/589/549	933/873/815/749/689/637/592	
Sound pressure level ³	dB(A)	39/37/36/35/34/32/31	41/39/38/37/36/35/33	43/41/40/39/37/36/35	
Sound power level	dB(A)	53/51/50/49/48/46/45	55/53/52/51/50/49/47	57/55/54/53/51/50/49	
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1275x189x450		
	Packed dimensions (WxHxD)	mm	1370x295x505		
	Net/Gross weight	kg	16.1/20.4	16.4/20.7	17.6/22.4
Panel	Net dimensions (WxHxD)	mm	1350x25x505		
	Packed dimensions (WxHxD)	mm	1410x95x560		
	Net/Gross weight	kg	4/5.4		
Pipe connections	Liquid/Gas pipe	mm	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. 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

Model		MDVI-18C1R1E	MDVI-22C1R1E	MDVI-28C1R1E	MDVI-36C1R1E	
Power supply		1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kW	1.8	2.2	2.8	3.6
	Input	W	41	41	41	41
Heating ²	Capacity	kW	2.2	2.6	3.2	4
	Input	W	41	41	41	41
Indoor fan motor	Type	AC				
	Quantity	1				
Airflow rate (H/M/L)	m ³ /h	523/404/275	523/404/275	573/456/315	573/456/315	
Sound pressure level (H/M/L) ³	dB(A)	37/34/30	37/34/30	39/37/34	39/37/34	
Refrigerant type		R410A				
Indoor unit	Dimension ⁴ (WxHxD)	mm	1054x153x425			
	Packing (WxHxD)	mm	1155x245x490			
	Net/Gross weight	kg	12.5/16	12.5/16	13/16.5	13/16.5
Panel	Dimension (WxHxD)	mm	1180x25x465			
	Packing (WxHxD)	mm	1232x107x517			
	Net/Gross weight	kg	3.5/5.2			
Pipe connections	Liquid pipe	mm	Φ6.35			
	Gas pipe	mm	Φ12.7			
	Drain pipe	mm	OD Φ25			

Model		MDVI-45C1R1E	MDVI-56C1R1E	MDVI-71C1R1E	
Power supply		1 phase, 220-240V, 50Hz			
Cooling ¹	Capacity	kW	4.5	5.6	7.1
	Input	W	48	48	60
Heating ²	Capacity	kW	5	6.3	8
	Input	W	48	48	60
Indoor fan motor	Type	AC			
	Quantity	1			
Airflow rate (H/M/L)	m ³ /h	693/600/476	792/688/549	933/749/592	
Sound pressure level (H/M/L) ³	dB(A)	41/39/35	42/40/36	44/41/37	
Refrigerant type		R410A			
Indoor unit	Dimension ⁴ (WxHxD)	mm	1275x189x450		
	Packing (WxHxD)	mm	1370x295x505		
	Net/Gross weight	kg	18.5/22.8	18.8/23.1	19.5/23.8
Panel	Dimension (WxHxD)	mm	1350x25x505		
	Packing (WxHxD)	mm	1410x95x560		
	Net/Gross weight	kg	4/5.4		
Pipe connections	Liquid pipe	mm	Φ6.35	Φ9.53	Φ9.53
	Gas pipe	mm	Φ12.7	Φ15.9	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
	Multiple steps vertical swing	5+auto
Easy installation	Minimized height	●
	High-lift drain pump	Rated head: 1200mm Raise height: 750mm

Note:
● equipped as standard

COMFORT

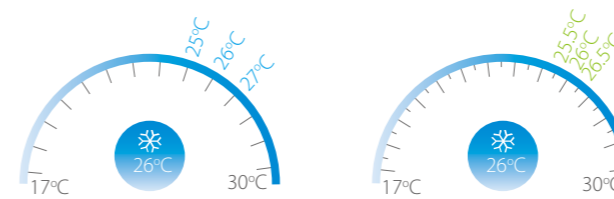
Quiet Operation

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

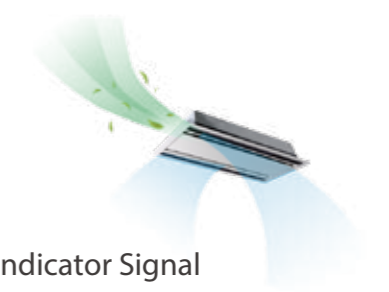
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

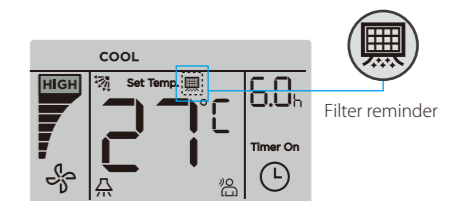
Fresh Air Intake

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

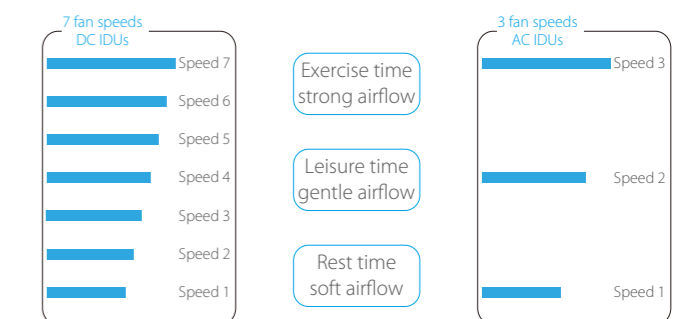
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

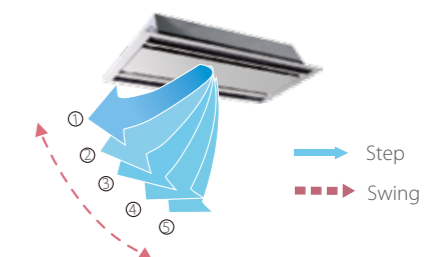
Multiple Fan Speeds

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

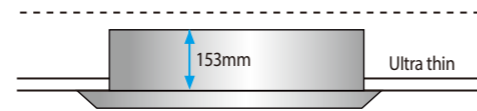
High Airflow

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



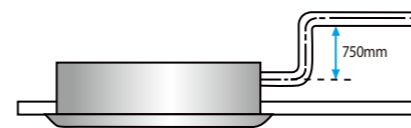
Easy Installation

The slim, compact design make the Two-way Cassette ideal for interiors with limited ceiling space. 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	MDVI-22C2VR1E	MDVI-28C2VR1E	MDVI-36C2VR1E	MDVI-45C2VR1E	MDVI-56C2VR1E	MDVI-71C2VR1E		
Power supply	1-phase, 220-240V, 50Hz							
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
		kBtu/h	7.5	9.6	12.3	15.4	19.1	24.2
Heating ²	Capacity	kW	2.6	3.2	4.0	5.0	6.3	8.0
		kBtu/h	8.9	10.9	13.6	17.1	21.5	27.3
	Power input	W	35	40	40	50	69	98
Airflow rate	m ³ /h	654/612/571/530/488/449/410		725/679/641/591/554/509/458	850/792/731/670/631/592/550	980/925/855/800/755/702/670	1200/1115/1068/1000/921/808/770	
Sound pressure level ³	dB(A)	33/31/30/29/27/25/24		35/33/32/30/29/27/25	37/36/35/34/32/31/30	39/37/36/35/33/31/30	44/42/41/40/38/36/34	
Sound power level	dB(A)	49/47/46/45/43/41/40		51/49/48/46/45/43/41	53/52/51/50/48/47/46	55/53/52/51/49/47/46	60/58/57/56/54/52/50	
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1172x299x591					
	Packed dimensions (WxHxD)	mm	1355x400x675					
	Net/Gross weight	kg	33.5/42.0		35/43.5			
Panel	Net dimensions (WxHxD)	mm	1430x53x680					
	Packed dimensions (WxHxD)	mm	1525x130x765					
	Net/Gross weight	kg	10.5/15					
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7		Ø9.53/Ø15.9			
	Drain pipe	mm	OD Ø32					

Specifications - AC Series

Model	MDVI-22CR1E	MDVI-28CR1E	MDVI-36CR1E	MDVI-45CR1E	MDVI-56CR1E	MDVI-71CR1E		
Power supply	1 phase, 220-240V, 50Hz							
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
		W	57	57	60	92	108	154
Heating ²	Capacity	kW	2.6	3.2	4	5	6.3	8
		W	57	57	60	92	108	154
Indoor fan motor	Type	AC						
	Quantity	1						
Refrigerant type	R410A							
Airflow rate (H/M/L)	m ³ /h	654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1200/1000/770	
Sound pressure level (H/M/L) ³	dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34	
Indoor unit	Dimension ⁴ (WxHxD)	mm	1172x299x591					
	Packing (WxHxD)	mm	1355x400x675					
	Net/Gross weight	kg	34/42.5		36/44.5			
Panel	Dimension (WxHxD)	mm	1430x53x680					
	Packing (WxHxD)	mm	1525x130x765					
	Net/Gross weight	kg	10.5/15					
Pipe connections	Liquid pipe	mm	Ø6.35		Ø9.53			
	Gas pipe	mm	Ø12.7		Ø15.9			
	Drain pipe	mm	OD Ø32					

Notes:

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



Compact 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

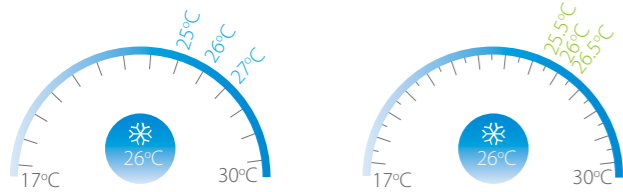
Quiet Operation

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

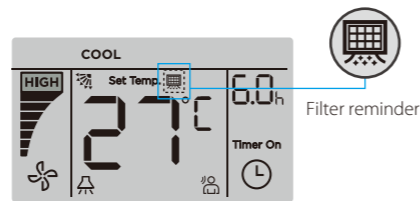
Fresh Air Intake

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

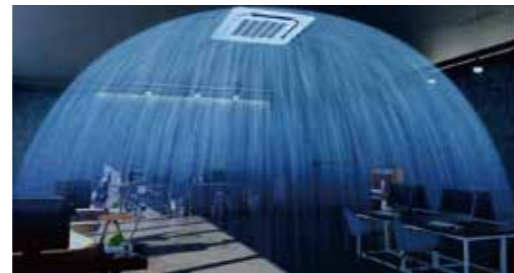
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

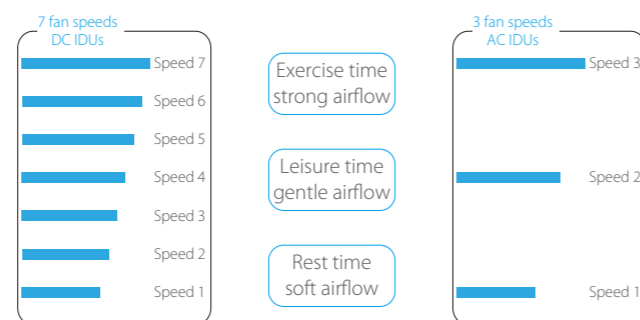
360° Airflow

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.



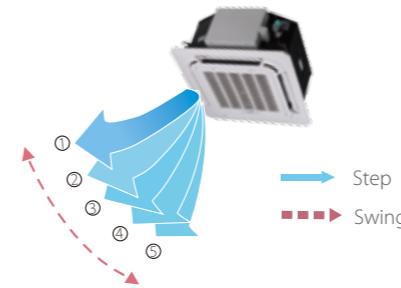
Multiple Fan Speeds

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

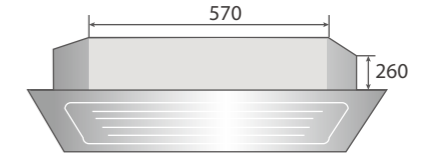
There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs.



EASY INSTALLATION

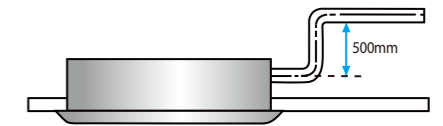
Compact Size

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		MDVI-17C4CVR1E	MDVI-22C4CVR1E	MDVI-28C4CVR1E	MDVI-36C4CVR1E	MDVI-45C4CVR1E	MDVI-52C4CVR1E
Power supply		1-phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	1.7	2.2	2.8	3.6	4.5
	Power input	kBtu/h	5.8	7.5	9.6	12.3	15.4
Heating ²	Capacity	kW	2.2	2.4	3.2	4.0	5.0
	Power input	kBtu/h	7.5	8.2	10.9	13.6	17.1
Airflow rate	m ³ /h	380/345/313/300/288/268/238	414/380/345/313/288/268/238	521/485/450/409/380/350/314	635/580/481/446/410/380/350		
Sound pressure level ³	dB(A)	35/34/33/29/26/23/22			41/38/35/32/30/29/28		52/48/35/32/30/29/28
Sound power level	dB(A)	51/50/49/45/42/39/38			56/53/50/47/45/44/43		60/55/50/47/45/44/43
Indoor unit	Net dimensions* (WxHxD)	mm	630x260x570				
	Packed dimensions (WxHxD)	mm	700x345x660				
	Net/Gross weight	kg	18/23.8		19.2/25.0		
Panel	Net dimensions (WxHxD)	mm	647x50x647				
	Packed dimensions (WxHxD)	mm	715x123x715				
	Net/Gross weight	kg	2.5/4.5				
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7				
	Drain pipe	mm	OD Φ25				

Specifications - AC Series

Model		MDVI-15C4CR1E	MDVI-22C4CR1E	MDVI-28C4CR1E	MDVI-36C4CR1E	MDVI-45C4CR1E
Power supply		1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kW	1.5	2.2	2.8	3.6
	Input	W	36	50	50	56
Heating ²	Capacity	kW	1.7	2.4	3.2	4
	Input	W	36	50	50	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* (WxHxD)	mm	570x260x630			
	Packing (WxHxD)	mm	675x285x675			
	Net/Gross weight	kg	17/20		18.5/21.5	
Panel	Dimension (WxHxD)	mm	647x50x647			
	Packing (WxHxD)	mm	715x123x715			
	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:

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

Four-way Cassette



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

Key Features

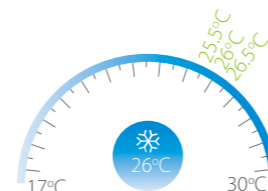
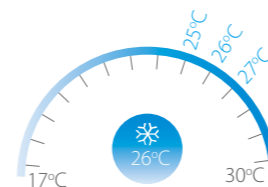
Four-way Cassette		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	○ (G3-class)	●
	Fresh air intake	●	●
	Dirty filters indicator signal	●	●
	360° airflow	●	●
Air flow	Individual louver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



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

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



The optional filter comply with EN779:2012

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

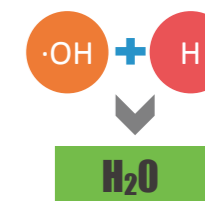
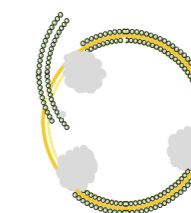
Ionizer Sterilization

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



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

2. OH radical extraction of hydrogen from bacterial proteins

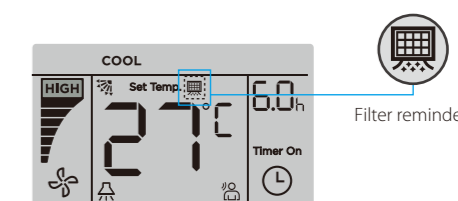


3. Components of bacterial tissues are destroyed and become ineffective (realize sterilization)

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

Dirty Filters Indicator Signal

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



Filter reminder

AIR FLOW

360° Airflow

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



Individual louver control*

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



*This function is available as a customization option.

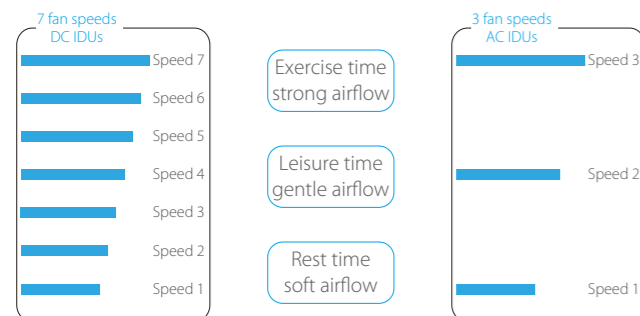
Soft Wind Mode

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



Multiple Fan Speeds

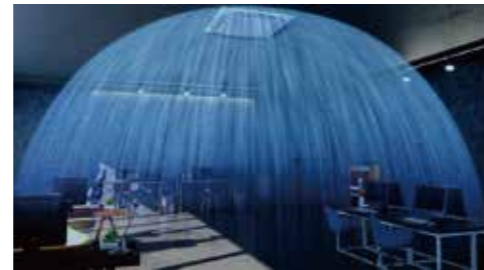
The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



EASY INSTALLATION

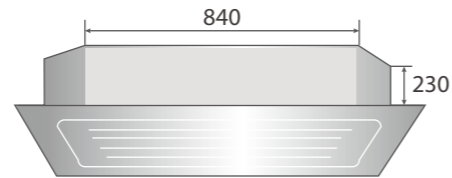
High Ceiling Installation

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



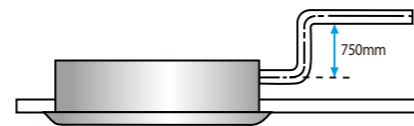
Compact Size

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



High-lift Drain Pump

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



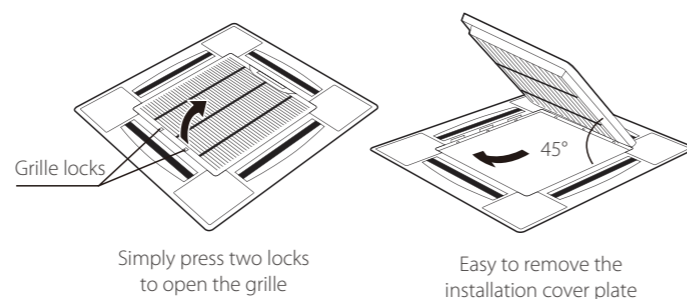
Sub Duct

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



Convenient Panel Installation

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



Specifications - DC Series

Model		MDVI-28C4VR1E	MDVI-36C4VR1E	MDVI-45C4VR1E	MDVI-56C4VR1E	MDVI-71C4VR1E	
Power supply		1 phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	2.8	3.6	4.5	5.6	7.1
		kBtu/h	9.6	12.3	15.4	19.1	24.2
Heating ²	Capacity	kW	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	m ³ /h	801/751/711/658/637/611/542		893/866/804/744/714/698/635		977/937/864/800/778/738/671	
Sound pressure level ³	dB(A)	32/31/30/28/28/26/23		35/34/31/31/30/28/26		35/35/34/31/30/28/27	
Sound power level	dB(A)	47/46/45/43/43/41/39		50/49/46/46/45/42/40		50/49/47/47/45/42/41	
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	840x230x840				
	Packed dimensions (WxHxD)	mm	955x260x955				
	Net/Gross weight	kg	21.3/25.8		23.2/27.6		
Panel	Net dimensions (WxHxD)	mm	950x54.5x950				
	Packed dimensions (WxHxD)	mm	1035x90x1035				
	Net/Gross weight	kg	5.5/8.2				
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9		
	Drain pipe	mm	OD Φ32				

Model		MDVI-80C4VR1E	MDVI-90C4VR1E	MDVI-100C4VR1E	MDVI-112C4VR1E	MDVI-140C4VR1E	
Power supply		1 phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	8.0	9.0	10.0	11.2	14.0
		kBtu/h	27.3	30.7	34.1	38.2	47.8
Heating ²	Capacity	kW	9.0	10.0	11.0	12.5	16.0
		kBtu/h	30.7	34.1	37.5	42.7	54.6
	Power input	W	96	100	150	160	170
Airflow rate	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	
Sound pressure level ³	dB(A)	36/35/34/31/31/29/28	37/35/34/31/31/30/28	43/42/40/38/37/35/34		45/44/42/41/40/39/37	
Sound power level	dB(A)	52/49/48/46/46/42/42	53/49/48/46/46/44/43	58/57/55/53/52/50/49		60/59/57/56/55/54/52	
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	840x230x840	840x300x840			
	Packed dimensions (WxHxD)	mm	955x260x955	955x330x955			
	Net/Gross weight	kg	23.2/27.6	28.4/33.8	30.7/35.8		
Panel	Net dimensions (WxHxD)	mm	950x54.5x950				
	Packed dimensions (WxHxD)	mm	1035x90x1035				
	Net/Gross weight	kg	5.5/8.2				
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9				
	Drain pipe	mm	OD Φ32				

Notes:

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

Specifications - AC Series

Model			MDVI-28C4R1E	MDVI-36C4R1E	MDVI-45C4R1E	MDVI-56C4R1E	MDVI-71C4R1E
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* (WxHxD)	mm	840x230x840				
	Packing (WxHxD)	mm	955x260x955				
	Net/Gross weight	kg	21.5/26.7		23.7/28.9		
Panel	Dimension (WxHxD)	mm	950x50x950				
	Packing (WxHxD)	mm	1035x89x1035				
	Net/Gross weight	kg	5.8/7.9				
Pipe connections	Liquid pipe	mm	Φ6.35			Φ9.53	
	Gas pipe	mm	Φ12.7			Φ15.9	
	Drain pipe	mm	ODΦ32				

Model			MDVI-80C4R1E	MDVI-90C4R1E	MDVI-100C4R1E	MDVI-112C4R1E	MDVI-140C4R1E
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* (WxHxD)	mm	840x230x840	840x300x840			
	Packing (WxHxD)	mm	955x260x955	955x330x955			
	Net/Gross weight	kg	23.7/28.9	28.7/34.1	28.7/34.1	28.7/34.1	30.9/36.3
Panel	Dimension (WxHxD)	mm	950x50x950				
	Packing (WxHxD)	mm	1035x89x1035				
	Net/Gross weight	kg	5.8/7.9				
Pipe connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
	Drain pipe	mm	ODΦ32				

Notes:
 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.

Medium Static Pressure Duct



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

Key Features

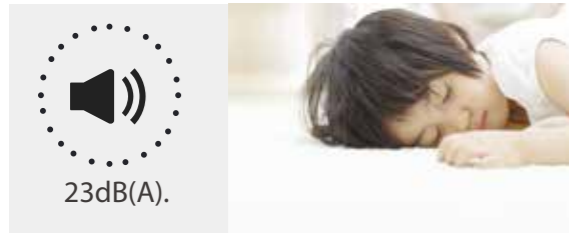
Medium Static Pressure Duct		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	○ (G3-class)	○ (G3-class)
	Innovative puro-air kit	●	●
	Fresh air intake	●	●
	Dirty filters indicator signal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

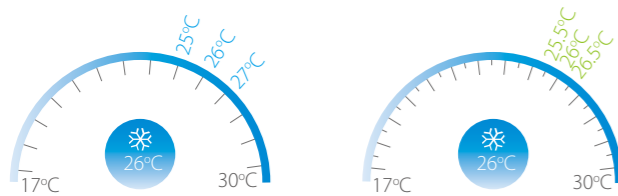
The Medium Static Pressure Duct indoor unit utilizes centrifugal blowers, reducing noise levels to as low as 23dB(A), and is an excellent choice for hotels and other noise-sensitive locations.



23dB(A).

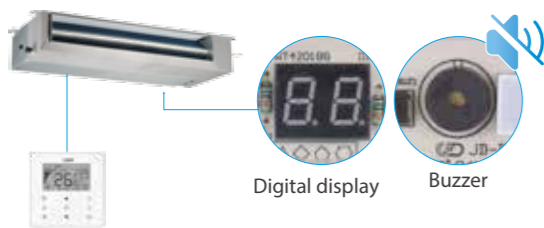
0.5°C/1°C Setting Temperature Adjustment

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



Digital Display 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.



Digital display

Buzzer

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

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

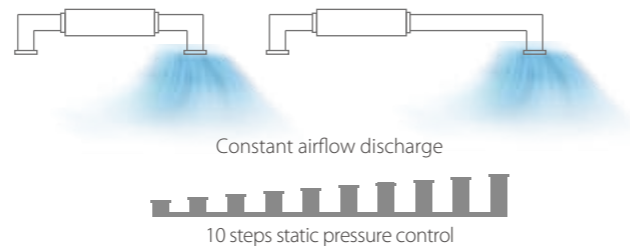
*The indoor unit needs to be customized in order to use the Puro-air Kit.



AIR FLOW

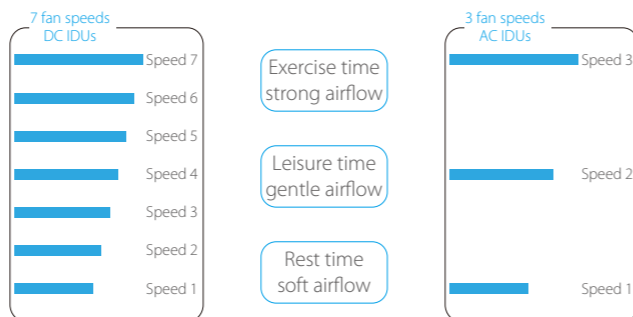
Static Pressure 10 Steps Control

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



Multiple Fan Speeds

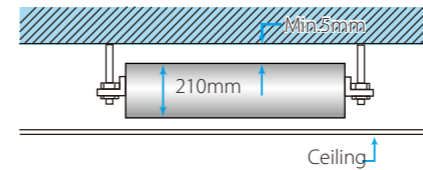
The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



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.



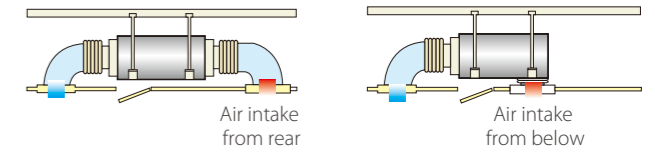
Stylish Air Discharge Panel

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



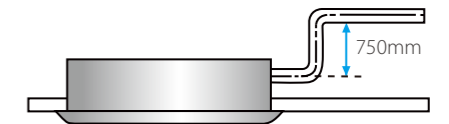
Flexible Air Inlet Port Installation

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		MDVI-17D2VR1E	MDVI-22D2VR1E	MDVI-28D2VR1E	MDVI-36D2VR1E
Power supply		1 phase, 220-240V, 50Hz			
Cooling ¹	Capacity	kW	1.7	2.2	2.8
		kBtu/h	5.8	7.5	9.6
Heating ²	Capacity	kW	2.2	2.6	3.2
		kBtu/h	7.5	8.2	10.9
Power input	W	40	40	40	45
Airflow rate	m ³ /h	520/480/440/400/360/330/300			580/540/500/460/430/400/370
External static pressure	Pa	10(0~50)		10(0~70)	
Sound pressure level ³	dB(A)	32/31/29/28/26/25/23			
Sound power level	dB(A)	50/49/47/46/44/43/41			51/50/49/48/46/45/43
Indoor unit	Net dimensions ⁴ (WxHxD)	780x210x500			
	Packed dimensions (WxHxD)	870x285x525			
	Net/Gross weight	18/21			
Pipe connections	Liquid/Gas pipe	Φ6.35/ Φ12.7			
	Drain pipe	OD Φ25			

Model		MDVI-45D2VR1E	MDVI-56D2VR1E	MDVI-71D2VR1E
Power supply		1 phase, 220-240V, 50Hz		
Cooling ¹	Capacity	kW	4.5	5.6
		kBtu/h	15.4	19.1
Heating ²	Capacity	kW	5.0	6.3
		kBtu/h	17.1	21.5
Power input	W	92	92	98
Airflow rate	m ³ /h	800/740/680/620/540/480/400	830/760/720/680/640/600/560	1000/960/900/840/780/720/680
External static pressure	Pa	10(0~70)		
Sound pressure level ³	dB(A)	36/34/32/31/29/27/25	36/34/33/32/30/29/28	37/35/33/32/30/29/28
Sound power level	dB(A)	54/52/50/49/47/45/43	54/52/51/50/48/47/46	55/53/51/50/48/47/46
Indoor unit	Net dimensions ⁴ (WxHxD)	1000x210x500		
	Packed dimensions (WxHxD)	1090x285x525		
	Net/Gross weight	21.5/25		
Pipe connections	Liquid/Gas pipe	Φ6.35/ Φ12.7		Φ9.53/Φ15.9
	Drain pipe	OD Φ25		

Model		MDVI-80D2VR1E	MDVI-90D2VR1E	MDVI-112D2VR1E	MDVI-140D2VR1E	
Power supply		1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kW	8.0	9.0	11.2	14.0
		kBtu/h	27.3	30.7	38.2	47.8
Heating ²	Capacity	kW	9.0	10.0	12.5	15.5
		kBtu/h	30.7	34.1	42.7	52.9
Airflow rate		m ³ /h	1260/1180/1100/1020/940/860/780	1500/1430/1360/1290/1210/1140/1080	1960/1860/1760/1660/1560/1460/1360	
External static pressure		Pa	20 (10~100)		40 (30~150)	
Sound pressure level ³		dB(A)	37/35/34/33/31/29/28	39/38/38/37/35/34/33	41/39/38/37/36/35/33	
Sound power level		dB(A)	55/53/52/51/49/47/46	57/56/56/55/53/52/51	59/57/56/55/54/53/51	
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1230x270x775		1290x300x865	
	Packed dimensions (WxHxD)	mm	1355x355x795		1400x375x925	
	Net/Gross weight	kg	36.5/44.5	37/45	46.5/55.5	
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. 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 - DC Series

ESP Increased Series

Model		MDVI-22D2VR1E(A)	MDVI-28D2VR1E(A)	MDVI-36D2VR1E(A)	
Power supply		1-phase, 220-240V, 50Hz			
Cooling ¹	Capacity	kW	2.2	2.8	3.6
		kBtu/h	7.5	9.6	12.3
Heating ²	Capacity	kW	2.6	3.2	4
		kBtu/h	8.2	10.9	13.6
Airflow rate ³		m ³ /h	430/420/410/400/390/380/370	500/480/460/430/400/380/370	580/540/500/460/430/400/370
External static pressure		Pa	30 (0~80)		
Sound pressure level ⁴		dB(A)	26/26/25/25/24/22/21	28/27/26/25/24/22/22	31/30/28/26/25/23/22
Sound power level		dB(A)	46/46/45/44/43/42/41	47/47/46/45/44/43/42	50/49/47/45/44/41/40
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	920x210x450		
	Packed dimensions (WxHxD)	mm	1140x292x560		
	Net/Gross weight	kg	21/25		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	Drain pipe	mm	OD Φ25		

Model		MDVI-45D2VR1E(A)	MDVI-56D2VR1E(A)	MDVI-71D2VR1E(A)	
Power supply		1-phase, 220-240V, 50Hz			
Cooling ¹	Capacity	kW	4.5	5.6	7.1
		kBtu/h	15.4	19.1	24.2
Heating ²	Capacity	kW	5	6.3	8
		kBtu/h	17.1	21.5	27.3
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
External static pressure		Pa	30 (0~150)		
Sound pressure level ⁴		dB(A)	37/36/35/33/31/29/27	38/36/35/33/31/29/28	38/37/35/34/31/29
Sound power level		dB(A)	56/54/53/52/50/47/45	57/56/55/52/50/49/48	59/58/57/55/54/53/50
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	920x270x570	920x270x570	1140x270x710
	Packed dimensions (WxHxD)	mm	1145x355x705	1145x355x705	1370x365x855
	Net/Gross weight	kg	29/34	29/34	36/42
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ9.53/Φ15.9	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. 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

Model		MDVI-22D2R1E	MDVI-28D2R1E	MDVI-36D2R1E	MDVI-45D2R1E	MDVI-56D2R1E	
Power supply		1 phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6
	Input	W	57	57	61	98	103
Heating ²	Capacity	kW	2.6	3.2	4	5	6.3
	Input	W	57	57	61	98	103
Indoor fan motor	Type	AC					
	Quantity	1					
Refrigerant type		R410A					
Airflow rate (H/M/L)	m ³ /h	550/397/309	550/397/309	605/442/351	800/573/479	800/573/479	
External static pressure (Std/Min~Max)		Pa	10(0~30)	10(0~30)	10(0~30)	10(0~30)	10(0~30)
Sound pressure level (H/M/L) ³		dB(A)	31/24/21	31/24/21	35/28/24	36/29/26	36/29/27
Indoor unit	Dimension ⁴ (WxHxD)	mm	778x210x500		997x210x500		
	Packing (WxHxD)	mm	870x285x525		1115x285x525		
	Net/Gross weight	kg	17.5/20		22/25		
Piping connections	Liquid pipe	mm	Φ6.35			Φ9.53	
	Gas pipe	mm	Φ12.7			Φ15.9	
	Drain pipe	mm	OD Φ25				

Model		MDVI-71D2R1E	MDVI-80D2R1E	MDVI-90D2R1E	MDVI-112D2R1E	MDVI-140D2R1E	
Power supply		1 phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	7.1	8	9	11.2	14
	Input	W	140	198	200	313	274
Heating ²	Capacity	kW	8	9	10	12.5	15.5
	Input	W	140	198	200	313	274
Indoor fan motor	Type	AC					
	Quantity	1					
Refrigerant type		R410A					
Airflow rate (H/M/L)	m ³ /h	985/738/630	1345/1165/1013	1345/1165/1013	1800/1556/1400	1905/1636/1400	
External static pressure (Std/Min~Max)		Pa	10(0~30)	20(10~50)	20(10~50)	40(10~80)	40(10~100)
Sound pressure level (H/M/L) ³		dB(A)	36/30/27	45/40/37	45/40/37	48/42/38	48/43/39
Indoor unit	Dimension ⁴ (WxHxD)	mm	1218x210x500	1230x270x775			1290x300x865
	Packing (WxHxD)	mm	1335x285x525	1355x350x795			1400x375x925
	Net/Gross weight	kg	27.5/31	37.5/43			46.5/55.5
Piping connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
	Drain pipe	mm	OD Φ25				

- Notes:
 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.

High Static Pressure Duct



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

Key Features

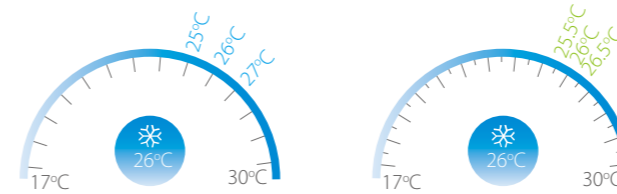
High Static Pressure Duct	DC Series	AC Series
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Air filter	○ (G3-class)
	Innovative puro-air kit	○
	Dirty filters indicator signal	●
Air flow	Adjustable ESP	20-steps
	Multiple fan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



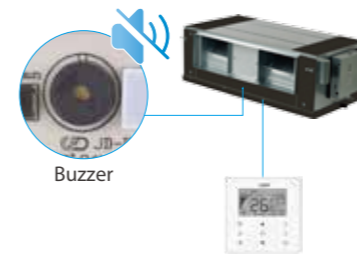
Digital Display On/Off

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.

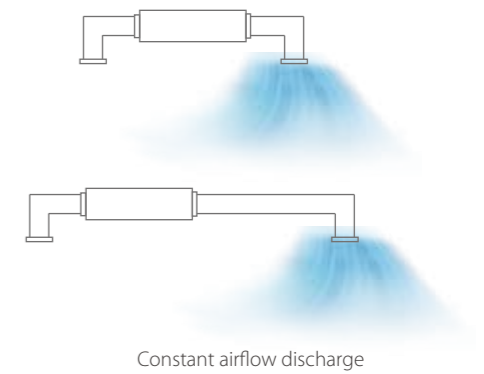


The optional filter comply with EN779:2012

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.



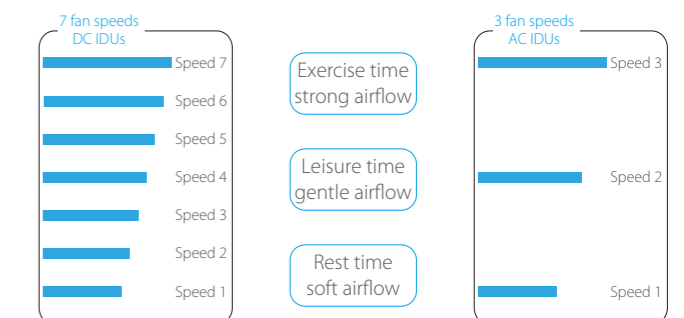
Constant airflow discharge



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

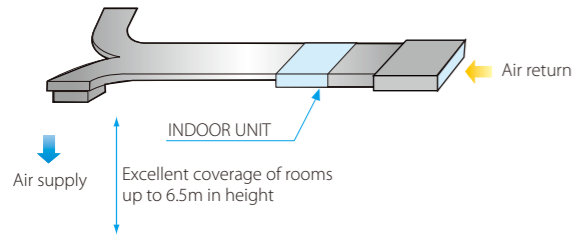


*The indoor unit needs to be customized in order to use the Puro-air Kit.

EASY INSTALLATION

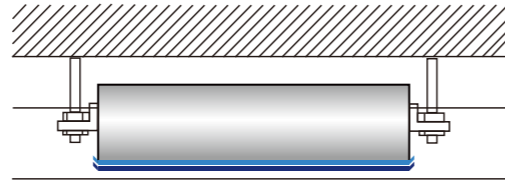
Flexible Duct Design

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	MDVI-71D3VR1E	MDVI-80D3VR1E	MDVI-90D3VR1E	MDVI-112D3VR1E				
Power supply	1-phase, 220-240V, 50Hz							
Cooling ¹	Capacity	kW	7.1	8.0	9.0	11.2		
	Power input	W	180	180	220	380		
Heating ²	Capacity	kW	8.0	9.0	10.0	12.5		
	Power input	W	180	180	220	380		
Airflow rate	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 ³	dB(A)				42/41/40/40/39/39/38		45/44/43/42/41/40/39	48/47/46/45/43/42/41
Sound power level	dB(A)				60/59/58/58/57/56		63/62/61/60/59/58/57	66/65/64/63/61/60/59
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	965x423x690					
	Packed dimensions (WxHxD)	mm	1090x440x768					
	Net/Gross weight	kg	41/47		48/55			
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9					
	Drain pipe	mm	OD Φ25					

Model	MDVI-140D3VR1E	MDVI-160D3VR1E	MDVI-200D3VR1E	MDVI-250D3VR1E				
Power supply	1-phase, 220-240V, 50Hz							
Cooling ¹	Capacity	kW	14.0	16.0	20.0	25.0		
	Power input	W	420	700	990	1200		
Heating ²	Capacity	kW	16.0	17.0	22.5	26.0		
	Power input	W	420	700	990	1200		
Airflow rate	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)			
Sound pressure level ³	dB(A)				45/44/43/42/41/40/40		46/45/44/43/42/41/40	51/50/50/49/49/48/47
Sound power level	dB(A)				63/62/61/60/59/58/58		64/63/62/61/60/59/58	69/68/68/67/67/66/65
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1322x423x691					
	Packed dimensions (WxHxD)	mm	1436x450x768					
	Net/Gross weight	kg	68/76		130/142			
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9					
	Drain pipe	mm	OD Φ25					

Model	MDVI-280D3VR1E	MDVI-400D3VR1E	MDVI-450D3VR1E	MDVI-560D3VR1E				
Power supply	1-phase, 220-240V, 50Hz							
Cooling ¹	Capacity	kW	28.0	40.0	45.0	56.0		
	Power input	W	1200	1800	1800	2272		
Heating ²	Capacity	kW	31.5	45.0	56.0	63.0		
	Power input	W	1200	1800	1800	2272		
Airflow rate	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 ³	dB(A)				51/50/49/49/48/48/47		60/59/58/57/55/54/52	59/58/57/56/55/53/51
Sound power level	dB(A)				69/68/67/67/66/66/65		78/77/76/75/73/72/70	77/76/75/74/73/71/69
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1454x515x931					
	Packed dimensions (WxHxD)	mm	1509x550x990					
	Net/Gross weight	kg	130/142		218/248			
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2					
	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.

Specifications - AC Series

Model	MDVI-71D3R1E	MDVI-80D3R1E	MDVI-90D3R1E	MDVI-112D3R1E	MDVI-140D3R1E	MDVI-160D3R1E				
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)		50(50~196)		50(50~196)		
Sound pressure level (SH/H/M/L) ³	dB(A)	48/46/44/43		48/46/45/43		52/49/47/46		53/50/48/46	54/52/50/48	
Indoor unit	Dimension ⁴ (WxHxD)	mm				965x423x690		1322x423x691		
	Packing (WxHxD)	mm				1090x440x768		1436x450x768		
	Net/Gross weight	kg		45/50		45/50		46.5/52.4	48/53	67/73
Piping connections	Liquid pipe	mm						Φ9.53		
	Gas pipe	mm						Φ15.9		
	Drain pipe	mm						OD Φ25		

Model	MDVI-200D3R1E	MDVI-250D3R1E	MDVI-280D3R1E	MDVI-400D3R1E	MDVI-450D3R1E	MDVI-560D3R1E		
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			1454x515x931		2010x680x905	
	Packing (WxHxD)	mm			1509x550x990		2095x800x964	
	Net/Gross weight	kg			124/135		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.

Wall Mounted



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

Key Features

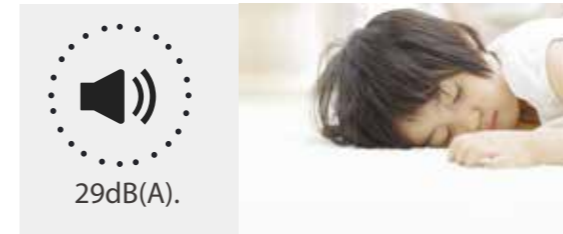
Wall Mounted	DC Series	AC Series	
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	●	●
	Dirty filters indicator signal	●	●
Air flow	Multiple fan speeds	7+auto	7+auto
	Multiple steps vertical swing	5+auto	5+auto
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

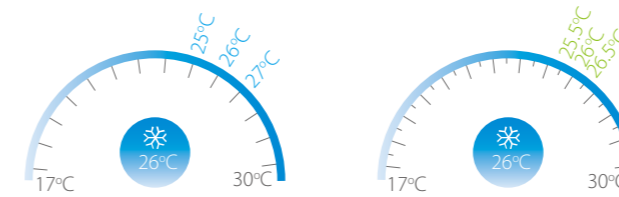
Quiet Operation

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



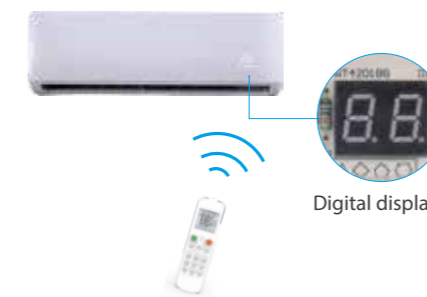
0.5°C/1°C Setting Temperature Adjustment

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



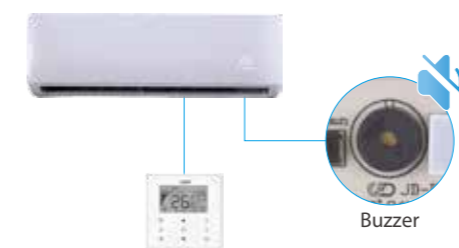
Digital Display On/Off

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



Buzzer Sound On/Off

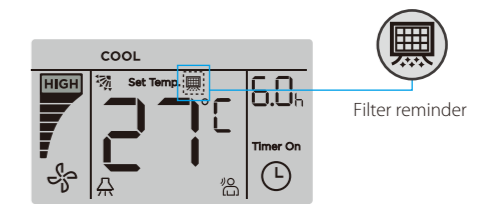
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Dirty Filters Indicator Signal

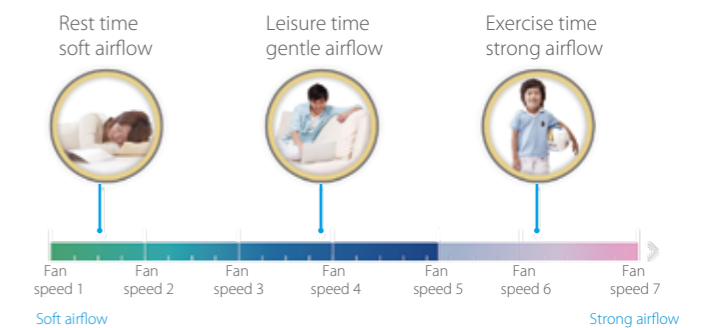
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

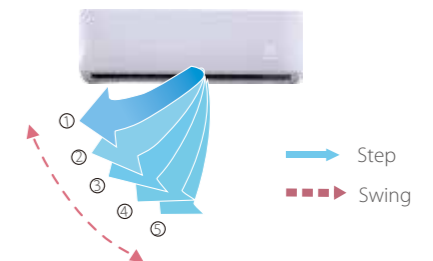
Multiple Fan Speeds

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



Multiple Steps Vertical Swing

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



EASY INSTALLATION

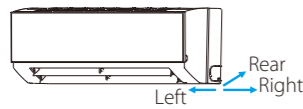
Pure White Stylish Panel

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



Flexible Pipe Outlet Direction

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



Exposed Installation, No Need Ceilings

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



Specifications - AC Series

Model		MDVI-22WMR1E	MDVI-28WMR1E	MDVI-36WMR1E	MDVI-45WMR1E	
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		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 ³		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 ⁴ (WxHxD)	mm	835x280x203			990x315x223
	Packing (WxHxD)	mm	915x353x300			1075x395x300
	Net/Gross weight	kg	8.5/11.0	8.5/11.0	9.7/12.2	13.8/16.4
Pipe connections	Liquid pipe	mm	Φ6.35			
	Gas pipe	mm	Φ12.7			
	Drain pipe	mm	OD Φ16			

Specifications - DC Series

Model		MDVI-17WMVR1E	MDVI-22WMVR1E	MDVI-28WMVR1E	
Power supply		1 phase, 220-240V, 50Hz			
Cooling ¹	Capacity	kW	1.7	2.2	2.8
	Power input	W	5.8	7.5	9.6
Heating ²	Capacity	kW	2.2	2.4	3.2
	Power input	W	28	28	28
Airflow rate		m ³ /h	411/402/393/385/378/368/356	422/411/402/393/380/368/356	417/402/386/370/353/338/316
Sound pressure level ³		dB(A)	31/30/30/30/29/29/29	31/30/30/30/29/29/29	31/30/30/30/29/29/29
Sound power level		dB(A)	46/45/45/45/44/44/44	46/45/45/45/44/44/44	46/45/45/45/44/44/44
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	835x280x203		
	Packed dimensions (WxHxD)	mm	935x385x320		
	Net/Gross weight	kg	8.4/12.1	8.4/12.1	9.5/13.1
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	Drain pipe	mm	OD Φ16		

Model		MDVI-36WMVR1E	MDVI-45WMVR1E	MDVI-56WMVR1E	
Power supply		1 phase, 220-240V, 50Hz			
Cooling ¹	Capacity	kW	3.6	4.5	5.6
	Power input	W	12.3	15.4	19.1
Heating ²	Capacity	kW	4.0	5.0	6.3
	Power input	W	13.6	17.1	21.5
Airflow rate		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 ³		dB(A)	33/32/32/31/31/30/30	35/34/33/33/32/31/31	38/37/36/36/35/34/34
Sound power level		dB(A)	48/47/47/46/46/45/45	50/49/48/48/47/46/46	53/52/51/51/50/49/49
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	990x315x223		
	Packed dimensions (WxHxD)	mm	1085x420x335		
	Net/Gross weight	kg	11.4/15.5	12.8/16.9	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ16		

Model		MDVI-71WMVR1E	MDVI-80WMVR1E	MDVI-90WMVR1E	
Power supply		1 phase, 220-240V, 50Hz			
Cooling ¹	Capacity	kW	7.1	8.0	9.0
	Power input	W	24.2	27.3	30.7
Heating ²	Capacity	kW	8.0	9.0	10.0
	Power input	W	55	55	82
Airflow rate		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 ³		dB(A)	44/43/42/39/38/37/36	44/43/42/39/38/37/36	48/46/45/43/41/40/38
Sound power level		dB(A)	59/58/57/54/53/52/51	59/58/57/54/53/52/51	63/61/60/58/56/55/53
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1194x343x262		
	Packed dimensions (WxHxD)	mm	1290x375x460		
	Net/Gross weight	kg	17.0/22.4		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	OD Φ16		

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

Model		MDVI-56WMR1E	MDVI-71WMR1E	MDVI-80WMR1E	MDVI-90WMR1E	
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		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 ³		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 ⁴ (WxHxD)	mm	990x315x223	1194x343x262		
	Packing (WxHxD)	mm	1075x395x300	1265x420x345		
	Net/Gross weight	kg	13.8/16.4	17.4/20.8	17.6/21.0	17.6/21.0
Pipe connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9			
	Drain pipe	mm	OD Φ16			

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

Ceiling & Floor



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

Key Features

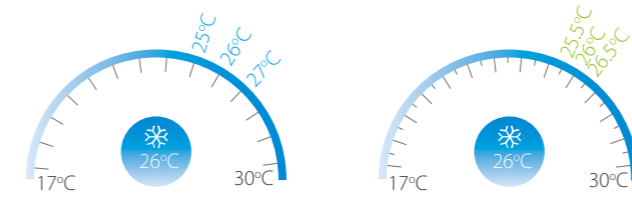
Ceiling & Floor		DC Series	AC Series
Comfort	Quiet operation	●	●
	0.5°C/1°C setting temperature adjustment	●	●
	Digital display on/off	●	●
	Buzzer sound on/off	●	●
Health	Air filter	●	●
	Dirty filters indicator signal	●	●
Air flow	Multiple fan speeds	7+auto	3+auto
	Multiple steps vertical swing	5+auto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

Note:
● equipped as standard

COMFORT

0.5°C/1°C Setting Temperature Adjustment

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



Digital Display On/Off

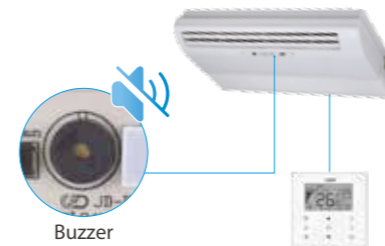
Indoor unit displays can be shut off at night, creating a better environment for rest.



Digital display

Buzzer Sound On/Off

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

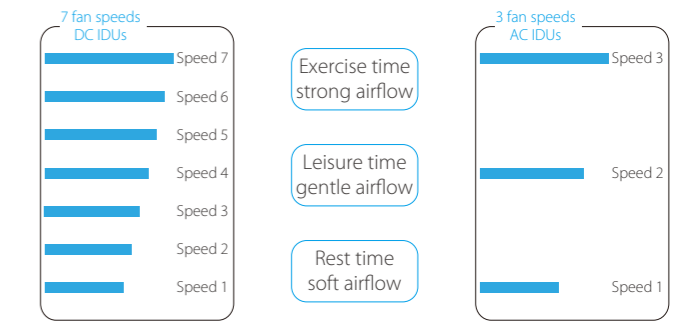


Buzzer

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.

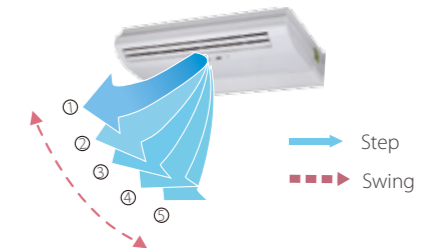


Multiple Steps Vertical Swing and Horizontal Swing

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 & Vertical

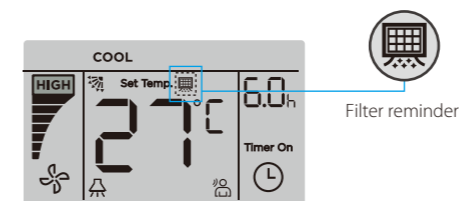


Step
Swing

HEALTH

Dirty Filters Indicator Signal

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

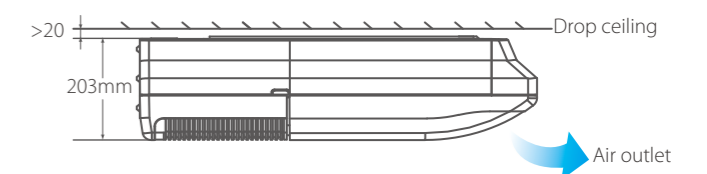


Filter reminder

EASY INSTALLATION

Pure White Stylish Panel with Slim Design

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



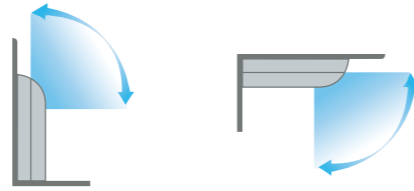
Exposed Installation, Easy Installation and Maintenance

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		MDVI-36CFVR1E	MDVI-45CFVR1E	MDVI-56CFVR1E	MDVI-71CFVR1E	
Power supply		1 phase, 220-240V, 50Hz				
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	m ³ /h	550/525/500/480/460/440/420	800/750/700/650/600/550/500			
Sound pressure level ³	dB(A)	40/39/38/38/37/36/36	43/42/41/41/39/38/38			
Sound power level	dB(A)	53/52/51/51/50/49/49	56/55/54/54/52/51/51			
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	990x660x203			
	Packed dimensions (WxHxD)	mm	1089x744x296			
	Net/Gross weight	kg	27/33	28/34		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ16			

Model		MDVI-80CFVR1E	MDVI-90CFVR1E	MDVI-112CFVR1E	MDVI-140CFVR1E	
Power supply		1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kW	8.0	9.0	11.2	14.0
		kBtu/h	27.2	30.7	38.2	47.8
	Power input	W	130	130	180	180
Heating ²	Capacity	kW	9.0	10.0	12.5	15.0
		kBtu/h	30.7	34.1	42.7	51.2
	Power input	W	130	130	180	180
Airflow rate	m ³ /h	1280/1245/1210/1170/1130/1085/1050		1890/1830/1765/1700/1660/1620/1580		
Sound pressure level ³	dB(A)	45/44/43/43/42/41/40		47/46/45/45/44/43/42		
Sound power level	dB(A)	58/57/56/56/55/54/53		60/59/58/58/57/56/55		
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1280x660x203		1670x680x244	
	Packed dimensions (WxHxD)	mm	1379x744x296		1915x760x330	
	Net/Gross weight	kg	35/41		48/58	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9			
	Drain pipe	mm	OD Φ16			

Notes:
 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 level is measured 1m horizontally and 1m vertically from the air-outlet.
 Ceiling mounted: Sound level is measured 1m horizontally and 1m vertically from the air-outlet.
 4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications - AC Series

Model		MDVI-36CFR1E	MDVI-45CFR1E	MDVI-56CFR1E	MDVI-71CFR1E	
Power supply		1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kW	3.6	4.5	5.6	7.1
		W	49	120	122	125
Heating ²	Capacity	kW	4	5	6.3	8
		W	49	120	122	125
Indoor fan motor	Type	AC				
	Quantity	1				
Refrigerant type		R410A				
Airflow rate (H/M/L)	m ³ /h	650/570/500	800/600/500			
Sound pressure level (H/M/L) ³	dB(A)	40/38/36	43/41/38			
Indoor unit	Dimension ⁴ (WxHxD)	mm	990x203x660			
	Packing (WxHxD)	mm	1089x296x744			
	Net/Gross weight	kg	26/32	28/34		
Piping connections	Liquid pipe	mm	Φ6.35		Φ9.53	
	Gas pipe	mm	Φ12.7		Φ15.9	
	Drain pipe	mm	OD Φ25			

Model		MDVI-80CFR1E	MDVI-90CFR1E	MDVI-112CFR1E	MDVI-140CFR1E	
Power supply		1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kW	8	9	11.2	14
		W	130	130	182	182
Heating ²	Capacity	kW	9	10	12.5	15
		W	130	130	182	182
Indoor fan motor	Type	AC				
	Quantity	1		2		
Refrigerant type		R410A				
Airflow rate (H/M/L)	m ³ /h	1200/900/700		1980/1860/1730		
Sound pressure level (H/M/L) ³	dB(A)	45/43/40		47/45/42		
Indoor unit	Dimension ⁴ (WxHxD)	mm	1280x203x660		1670x244x680	
	Packing (WxHxD)	mm	1379x296x744		1764x329x760	
	Net/Gross weight	kg	34.5/41		54/59	
Piping connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9			
	Drain pipe	mm	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 level is measured 1m horizontally and 1m vertically from the air-outlet.
 Ceiling mounted: Sound level is measured 1m horizontally and 1m vertically from the air-outlet.
 4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Floor Standing



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

Key Features

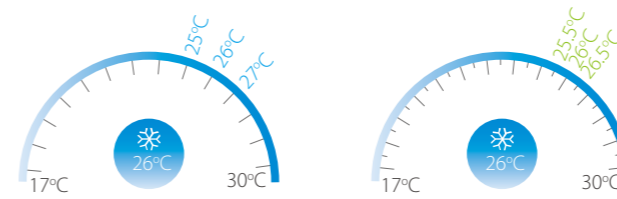
Floor Standing		DC Series
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Air filter	●
	Dirty filters indicator signal	●
Air flow	Multiple fan speeds	7+auto
Easy installation	Pure white stylish panel with slim design	●
	Exposed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

Note:
●: equipped as standard

COMFORT

0.5°C/1°C Setting Temperature Adjustment

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



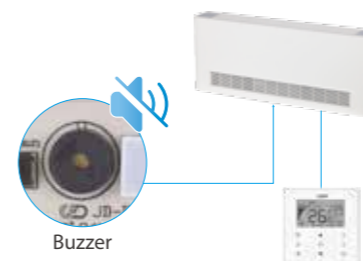
Digital Display On/Off

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



Buzzer Sound On/Off

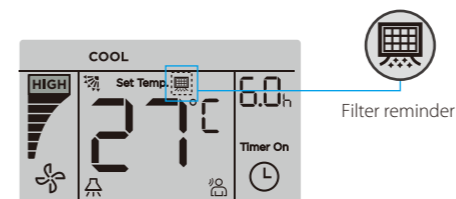
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Dirty Filters Indicator Signal

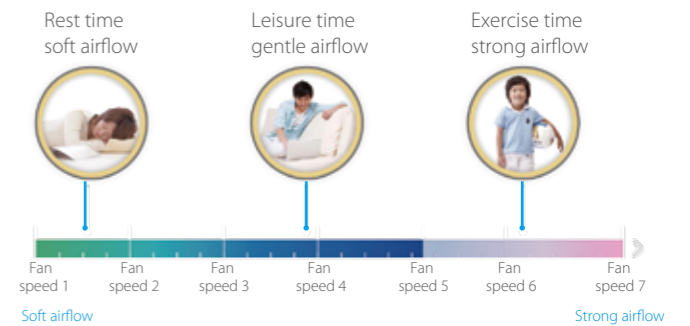
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

Multiple Fan Speeds

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



EASY INSTALLATION

Multiple Appearance Options

The Floor Standing Unit has three appearance options to meet different installation requirements, 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			MDVI-22FS3VR1E	MDVI-28FS3VR1E
Power supply			1 phase, 220-240V, 50Hz	
Cooling ¹	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
Power input		W	40	45
Heating ²	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
Power input		W	40	45
Airflow rate		m ³ /h	530/504/478/456/439/418/400	569/540/515/485/462/443/421
Sound pressure level ³		dB(A)	36/35/34/33/31/30/29	36/35/34/33/31/30/29
Sound power level		dB(A)	54/53/52/51/49/48/47	54/53/52/51/49/48/47
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	840x545x212	
	Packed dimensions (WxHxD)	mm	939x639x305	
	Net/Gross weight	kg	21.4/25.6	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	Φ16	

Model			MDVI-36FS3VR1E	MDVI-45FS3VR1E
Power supply			1 phase, 220-240V, 50Hz	
Cooling ¹	Capacity	kW	3.6	4.5
		kBtu/h	12.3	15.4
Power input		W	55	60
Heating ²	Capacity	kW	4.0	5.0
		kBtu/h	13.6	17.1
Power input		W	55	60
Airflow rate		m ³ /h	624/591/557/522/473/420/375	660/625/583/542/501/475/440
Sound pressure level ³		dB(A)	37/36/35/34/32/31/30	37/36/35/34/32/31/30
Sound power level		dB(A)	55/54/53/52/51/49/48	55/54/53/52/51/49/48
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1040x545x212	
	Packed dimensions (WxHxD)	mm	1139x639x305	
	Net/Gross weight	kg	26.1/30.6	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	Φ16	

Model			MDVI-56FS3VR1E	MDVI-71FS3VR1E	MDVI-80FS3VR1E
Power supply			1 phase, 220-240V, 50Hz		
Cooling ¹	Capacity	kW	5.6	7.1	8.0
		kBtu/h	19.1	24.2	27.3
Power input		W	88	110	130
Heating ²	Capacity	kW	6.3	8.0	9.0
		kBtu/h	21.5	27.3	30.7
Power input		W	88	110	130
Airflow rate		m ³ /h	1150/1094/1028/970/925/886/830	1380/1290/1205/1100/1033/955/870	1380/1290/1205/1100/1033/955/870
Sound pressure level ³		dB(A)	41/39/37/35/33/32/31	44/42/40/39/37/35/33	44/42/40/39/37/35/33
Sound power level		dB(A)	59/57/55/53/51/50/49	62/60/58/57/55/53/51	62/60/58/57/55/53/51
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1340x545x212		
	Packed dimensions (WxHxD)	mm	1425x639x345		
	Net/Gross weight	kg	31/39		32.7/40.7
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	Φ16		

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

Specifications - DC Series

Exposed

Model			MDVI-22FS4VR1E MDVI-22FS5VR1E	MDVI-28FS4VR1E MDVI-28FS5VR1E
Power supply			1 phase, 220-240V, 50Hz	
Cooling ¹	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
Power input		W	40	45
Heating ²	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
Power input		W	40	45
Airflow rate		m ³ /h	530/504/478/456/439/418/400	569/540/515/485/462/443/421
Sound pressure level ³		dB(A)	36/35/34/33/31/30/29	36/35/34/33/31/30/29
Sound power level		dB(A)	54/53/52/51/49/48/47	54/53/52/51/49/48/47
Indoor unit	Net dimensions ⁴ (WxHxD)	mm (F4)	1000x596x225	
		mm (F5)	1000x677x220	
	Packed dimensions (WxHxD)	mm (F4)	1089x683x312	
		mm (F5)	1182x683x312	
Net/Gross weight		kg (F4)	28.2/32.8	
		kg (F5)	28.2/35.8	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	Φ16	

Model			MDVI-36FS4VR1E MDVI-36FS5VR1E	MDVI-45FS4VR1E MDVI-45FS5VR1E
Power supply			1 phase, 220-240V, 50Hz	
Cooling ¹	Capacity	kW	3.6	4.5
		kBtu/h	12.3	15.4
Power input		W	55	60
Heating ²	Capacity	kW	4.0	5.0
		kBtu/h	13.6	17.1
Power input		W	55	60
Airflow rate		m ³ /h	624/591/557/522/473/420/375	660/625/583/542/501/475/440
Sound pressure level ³		dB(A)	37/36/35/34/32/31/30	37/36/35/34/32/31/30
Sound power level		dB(A)	55/54/53/52/51/49/48	55/54/53/52/51/49/48
Indoor unit	Net dimensions ⁴ (WxHxD)	mm (F4)	1200x596x225	
		mm (F5)	1200x677x220	
	Packed dimensions (WxHxD)	mm (F4)	1289x683x312	
		mm (F5)	1382x683x312	
Net/Gross weight		kg (F4)	33.1/38.2	
		kg (F5)	33.5/41.8	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	Φ16	

Model			MDVI-56FS4VR1E MDVI-56FS5VR1E	MDVI-71FS4VR1E MDVI-71FS5VR1E	MDVI-80FS4VR1E MDVI-80FS5VR1E
Power supply			1 phase, 220-240V, 50Hz		
Cooling ¹	Capacity	kW	5.6	7.1	8.0
		kBtu/h	19.1	24.2	27.3
Power input		W	88	110	130
Heating ²	Capacity	kW	6.3	8.0	9.0
		kBtu/h	21.5	27.3	30.7
Power input		W	88	110	130
Airflow rate		m ³ /h	1150/1094/1028/970/925/886/830	1380/1290/1205/1100/1033/955/870	1380/1290/1205/1100/1033/955/870
Sound pressure level ³		dB(A)	41/39/37/35/33/32/31	44/42/40/39/37/35/33	44/42/40/39/37/35/33
Sound power level		dB(A)	59/57/55/53/51/50/49	62/60/58/57/55/53/51	62/60/58/57/55/53/51
Indoor unit	Net dimensions ⁴ (WxHxD)	mm (F4)	1500x596x225		
		mm (F5)	1500x677x220		
	Packed dimensions (WxHxD)	mm (F4)	1589x683x312		
		mm (F5)	1682x683x312		
Net/Gross weight		kg (F4)	38.4/44.6		40.4/46.2
		kg (F5)	39/47.7		40.7/49.4
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	Φ16		

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

Console



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

Key Features

Console	DC Series	
Comfort	Optimal heating 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	Two air outlets and four air inlets	●
	Multiple fan speeds	7+auto
	Multiple steps vertical swing	5+auto
Easy installation	Pure white stylish panel with compact size	●
	Exposed installation, easy installation and maintenance	●

Note:
●: equipped as standard

COMFORT

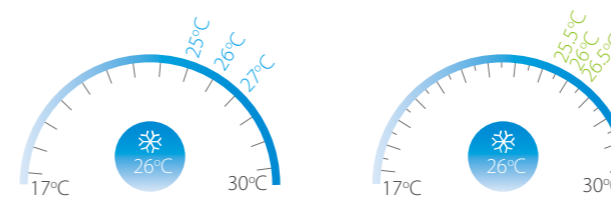
Optimal Heating Comfort

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



0.5°C/1°C Setting Temperature Adjustment

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



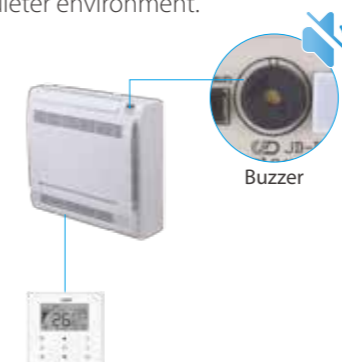
Digital Display On/Off

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



Buzzer Sound On/Off

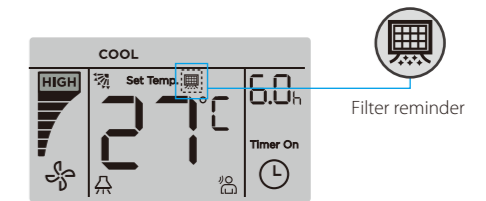
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Dirty Filters Indicator Signal

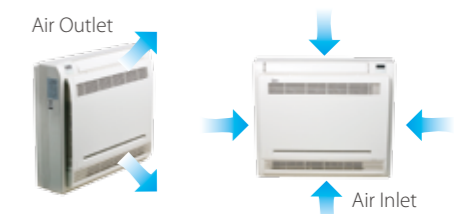
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

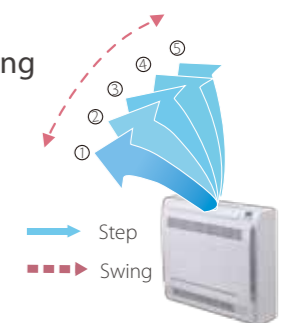
Two Air Outlets And Four Air Inlets

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



Multiple Steps Vertical Swing

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



EASY INSTALLATION

Pure White Stylish Panel With Compact Size

Pure white stylish panel with slim design, perfect fusion in all kinds of decoration. Super compact design can be install in existing building. Its low height enables the unit to fit perfectly beneath a window. Good choose for office.



Fresh Air Processing Unit

Specifications - DC Series

Model			MDVI-22COVR1E	MDVI-28COVR1E	MDVI-36COVR1E	MDVI-45COVR1E
Power supply			1 phase, 220-240V, 50Hz			
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5
		kBtu/h	7.5	9.6	12.3	15.4
	Power input	W	20	25	25	35
Heating ²	Capacity	kW	2.6	3.2	4.0	5.0
		kBtu/h	8.9	10.9	13.4	17.1
	Power input	W	20	25	25	35
Airflow rate		m ³ /h	430/401/374/345/302/268/229	510/482/456/430/355/286/229		660/614/561/512/478/436/400
Sound pressure level ³		dB(A)	38/36/34/32/28/27/26	39/37/35/33/31/29/27		42/41/40/39/37/36/36
Sound power level		dB(A)	54/52/50/48/44/43/42	55/53/51/49/47/45/43		58/57/56/55/53/52/52
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	700x600x210			
	Packed dimensions (WxHxD)	mm	810x710x305			
	Net/Gross weight	kg	14/19	15/20		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ16			

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



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	○	○

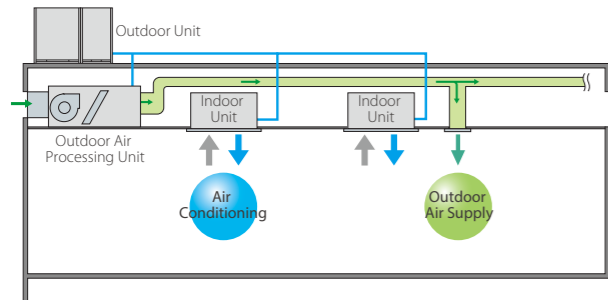
Note:
 ●: equipped as standard; ○: customization option;

COMFORT

100% Fresh Air Processing Unit

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

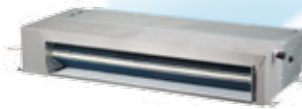
Indoor units and the Fresh Air Processing Unit can be connected to the same refrigerant system, increasing design flexibility and greatly reducing total system costs.



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

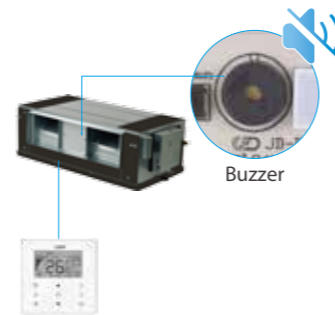
Indoor unit displays can be shut off at night, creating a better environment for rest.



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.

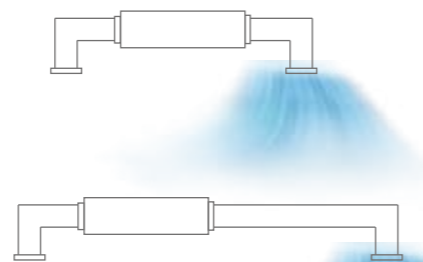


The optional filter comply with EN779:2012

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

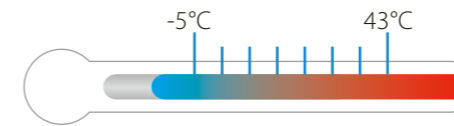


20 steps static pressure control

EASY INSTALLATION

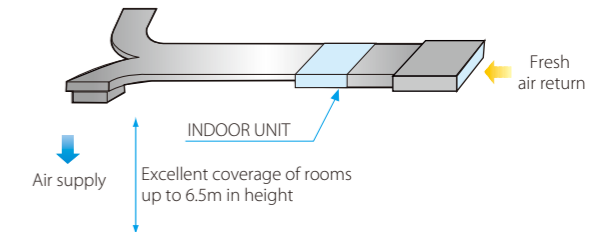
Wide Operation Range

The Fresh Air Processing Unit can be installed practically anywhere. The unit operates at outdoor ambient up to 43°C in cooling mode and down to -5°C in heating mode.



Flexible Duct Design

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



Specifications - DC Series (with large airflow)

Model			MDVI-125OAVR1E	MDVI-140OAVR1E
Power supply			1 phase, 220-240V, 50Hz	
Cooling ¹	Capacity	kW	12.5	14.0
		kBtu/h	42.6	47.8
	Power input	W	480	480
Heating ²	Capacity	kW	10.5	12.0
		kBtu/h	36.0	41.0
	Power input	W	480	480
Airflow rate		m ³ /h	2000/1917/1833/1750/1667/1583/1500	
External static pressure		Pa	150(100~250)	
Sound pressure level ³		dB(A)	48/47/46/45/44/43/42	
Sound power level		dB(A)	66/65/64/63/62/61/60	
Indoor unit	Net dimensions ⁴ (WxHxD)	mm	1322x423x691	
	Packed dimensions (WxHxD)	mm	1436x450x768	
	Net/Gross weight	kg	68/76	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ25	

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. 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.

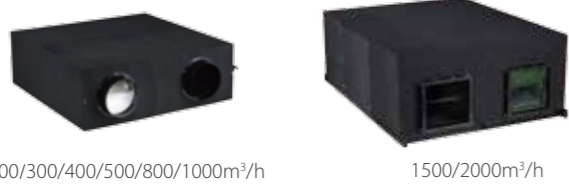
All specifications are measured at standard external static pressure.

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.

Heat Recovery Ventilator (HRV)

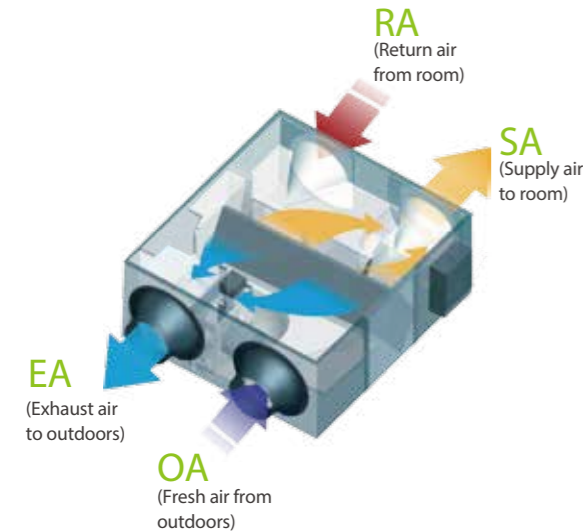
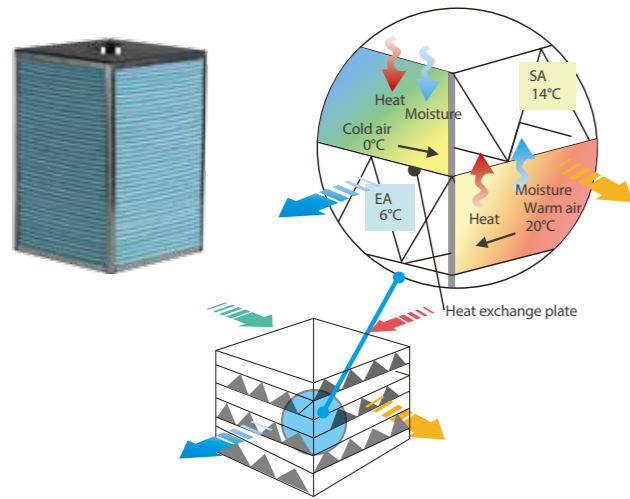
Wide Capacity Range

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



Energy Saving, Heat Recovery for Both Heat and Humidity

The heat recovery ventilator (HRV) can greatly reduce energy loss and room temperature fluctuations caused by the ventilation process. The Midea HRV's strong performance is a result of the advanced technology incorporated into its design. The heat exchanger core is made of specially treated paper which gives enhanced temperature and humidity control. It prevents energy being wasted by recovering waste heat from the outgoing air, thus offering much greater levels of efficiency, while improving comfort levels too.

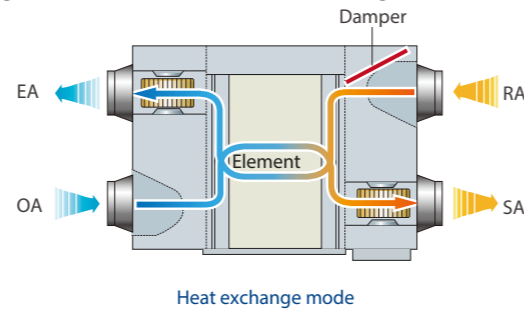


Multiple Operation Modes

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

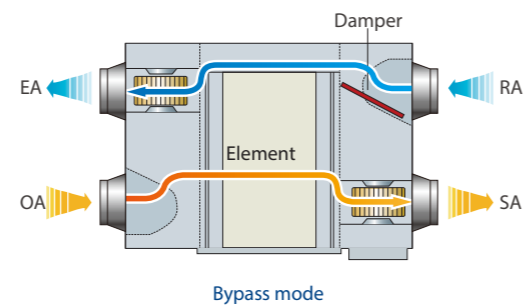
Heat exchange mode

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



Bypass mode

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



Air supply mode

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

Exhaust mode

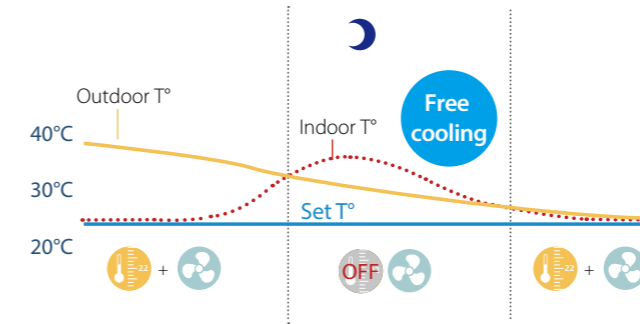
Exhaust mode is where the exhaust fan is set to run faster than the supply fan, which is useful in mild climate installations with large amounts of exhaust air to be expelled.

Auto mode

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

Free Cooling Mode

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



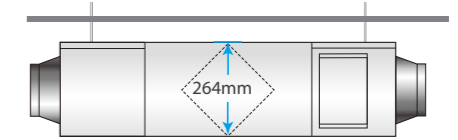
High Efficiency Filter

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



Easy Installation

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



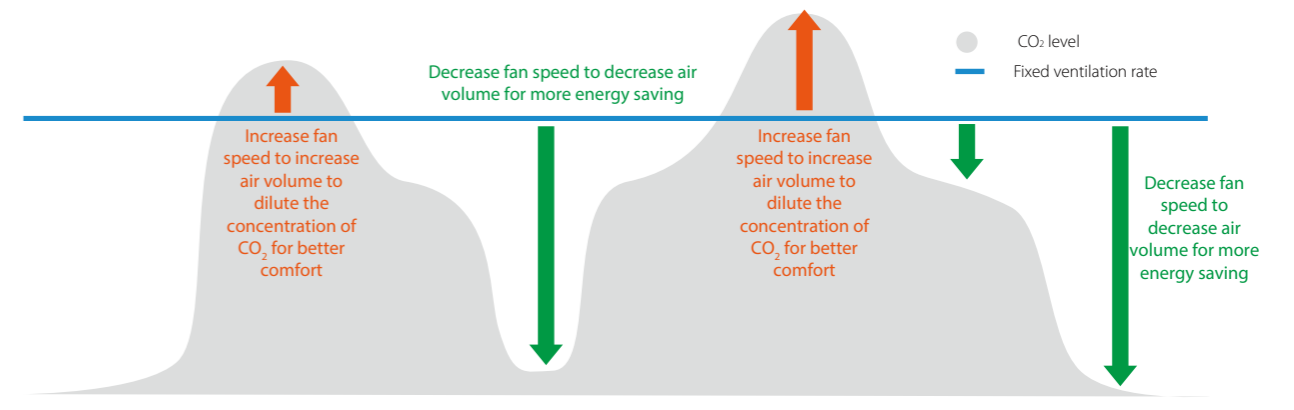
Wide Range of Controllers

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



CO₂ Sensor Option

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



Specifications - DC Series

Model		CNHR-2-Mi D200	CNHR-2-Mi D300	CNHR-2-Mi D400	CNHR-2-Mi D500
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	°C	-7 to 43 DB, RH 80% or lower			

Note:
 1. For the units model of CNHR-2-Mi D300 ~CNHR-2-Mi D1000, there are 3-speed adjustable air-volume (Hi, Med, Low).
 2. The parameters in the above table are measured at high speed.

Model		CNHR-2-Mi D800	CNHR-2-Mi D1000	CNHR-2-Mi D1500	CNHR-2-Mi D2000
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	°C	-7 to 43 DB, RH 80% or lower			

Note:
 1. For the units model of CNHR-2-Mi D300 ~CNHR-2-Mi D1000, there are 3-speed adjustable air-volume (Hi, Med, Low).
 2. The parameters in the above table are measured at high speed.

PURO - AIR KIT

SAFE INDOOR AIR, FROM THE INVISIBLE CARE

PURIFICATION SPEED INDUSTRY LEADER



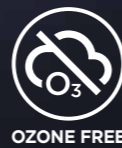
UVGI



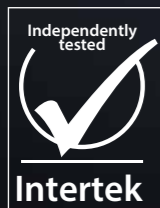
CLEAN WAVE



UV RADIATION FREE



OZONE FREE



First Global Tick-mark Certification Of Purification Ac Products

Premium Osram Hns Uv Lamp Made In Europe

99.9% Killing Rate Of Staphylococcus Albus Within 10 Minutes

99.9% Killing Rate Of H1n1 Within 30 Minutes

98.2% Killing Rate Of Natural Airborne Bacteria Within 30 Minutes

Indoor air pollution is affecting our...

We spend 80% of our time indoors. On average, a person consumes about 8000 liters of air in a day. According to the EPA, indoor air pollution could be five times greater than outdoor air. Over 99% of particles in the air are smaller than 1 micron, and they cannot sink because of their lightweight. When a person sneezes, around 100,000 contagious germs may be sent into the air. Puro-Air kit can effectively remove bacteria, viruses and odors from indoor air to provide a healthy and safe indoor environment. Its innovative design also prevents UV damage to the eyes, skin, and respiratory tract.

50%

of pollutants possible in our homes

58%

of time spent indoors

3000

different chemical, particulate and biological materials can affect our health

81%

Individuals at risk of respiratory and dermatological problems due to poor IAD

90%

our time indoors breathing polluted air

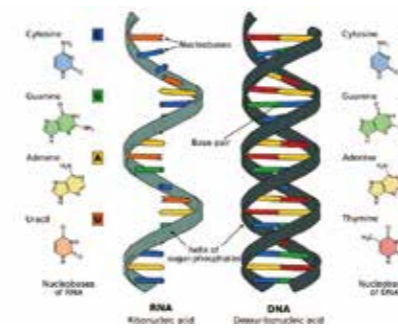
...health

AIRFLOW



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



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

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

Features:

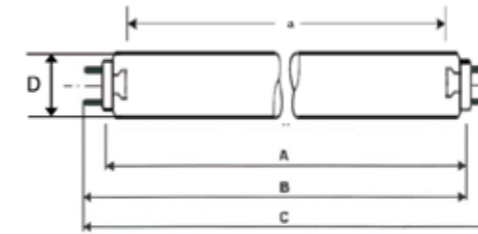
- 2 models, power range from 60W to 120W
- 2 UV lamps and 4 UV lamps are optional
- Application air flow rate of 2 UV lamps model can be up to 2600 m³/h
- Application air flow rate of 4 UV lamps model can be up to 4300 m³/h.
- UVGI high efficient
- Innovative structural design
- Higher safty,Ozone-free and UV leakage-free
- Flexibility Control
- Higher reliability
- Higher killing rate for viruses and bacteria,99.9% killing rate of Staphylococcus albus in 10 minutes,99.9% killing rate of H1N1 and 98% killing rate of natural bacteria in 30 minutes
- Be widely used in many scenes



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

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



Geometric Data

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

Electrical Data

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

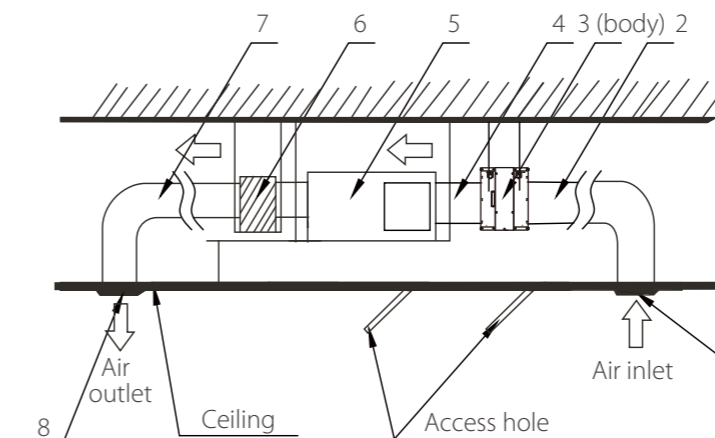
Note: The OSRAM HNS G13 lamp can be purchased from the market for replacement.

Spectral Data

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

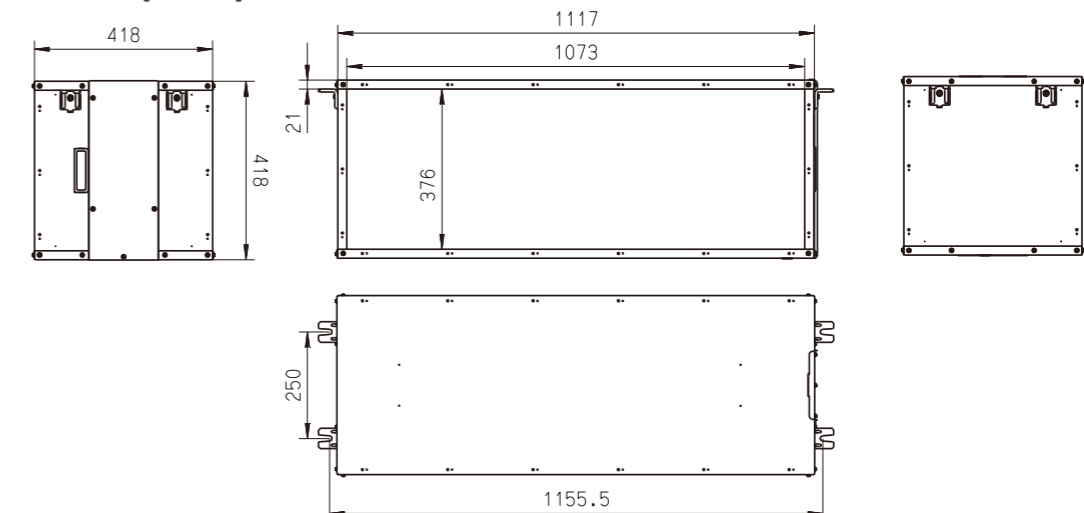
Air Duct Installation

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



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

Dimensions (mm)

















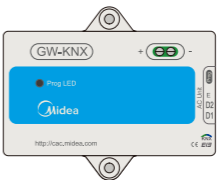






CONTROL SOLUTIONS


















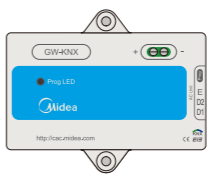

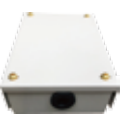
Remote Controllers
Wired Controllers
Central Controllers
Data Converter
Network Control System
BMS Gateways
Accessories

CONTROLLER LINEUP for MDV6/MDV6i/MDV6R/Mini C

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

Note: 1. GW-KNX(A) is only used for High Temperature Hydro Module in MDV6R systems.
 2. The diagnosis software is only compatible with MDV6/MDV6i outdoor unit.

CONTROLLER LINEUP for MDV4i/ 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 	 IMMP-BAC(A)	Hotel Key Card Interface Module  MA-HKCW MA-HKCS
 RM12F	 WDC-120G/WK(A)	 CCM-270B/WS(A)	+ IMM Software 		 GW-LON(A)	Infrared Sensor Controller  MA-IS
		 MD-CCM09		 CCM-15	Modbus Gateway  CCM-18A/N CCM-18A/N-U	Network Electricity Distribution Module (Special for Mini VRF)  MD-NIM10
		 CCM30			 GW-KNX	XYE Extension Kit  MA-EK Indoor Unit Online Kit  MCAC-PIDU



Remote Controllers

Features

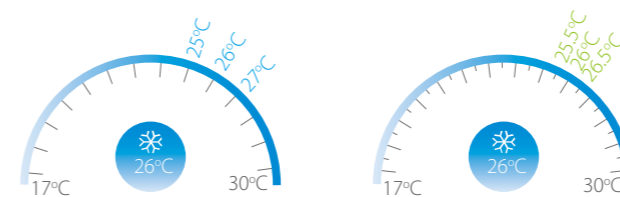
Model	RM05B(A)	RM12F
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Address setting	●	●
Follow me	×	●
Eco mode	●	●
Silent mode	●	●
Display shut-off	●	●
Daily timer	●	●
Keyboard lock	●	●
Background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

Note:

●: equipped as standard; ×: without this function

0.5°C/1°C Setting Temperature Adjustment

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



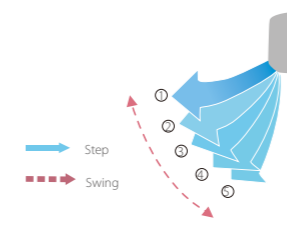
Digital Display On/Off

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



5 Swing Angles for Louver

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



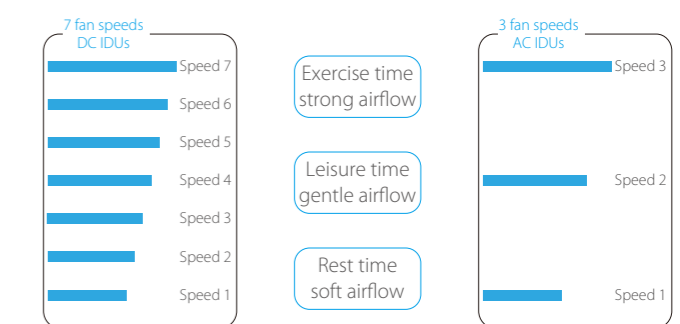
Follow Me

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



Multiple Fan Speed Control

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



Wired Controllers



Features


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

Note:

●: equipped as standard; ×: without this function

when the 2nd generation AC indoor units connect to group controller WDC-120G/WK(A), the indoor units need to customize D1 D2 terminals.

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.



2 Permission Levels

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



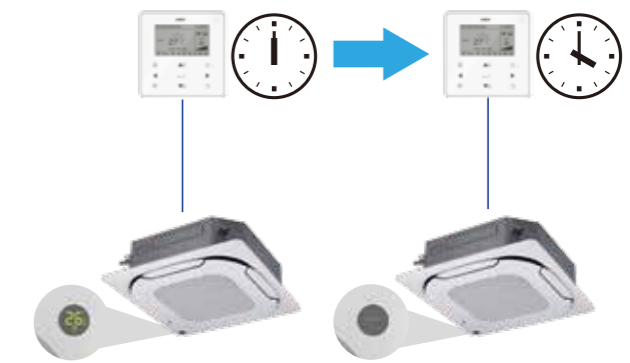
Buzzer Sound On/Off

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



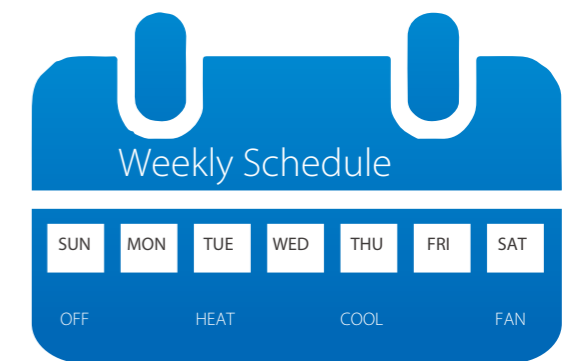
Off Timer Function

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 MDV6/MDV6i/MDV6R/MDV4i(10-12HP) outdoor unit connected to 2nd generation DC indoor unit.

Central Controllers



Features

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

Note:

●: equipped as standard; ×: without this function

*means this function is only available for MDV6/MDV6i/MDV6R/MDV4i(10-12HP), Mini C outdoor unit.

Features

Function	CCM30	CCM09
Max. number of indoor units	64	64
Max. number of refrigerant systems	8	8
Touch screen	×	×
On/Off	●	●
Mode selection	●	●
Temperature setting	● (1°C steps)	
7-speed fan control	3-speed fan control	
Auto swing	●	●
5-step swing louver*	×	×
Room temperature display	●	●
Holiday setting	×	×
°C/°F display	●	●
Schedule management	●	Weekly timer
Clock display	×	×
2 permission levels	×	×
Extension function	×	×
Indoor unit type/model recognition	×	×
Indoor unit with capacity larger than 16kW recognition	Identify as two or four units (depend on units model)	
HRV Control	●	●
Visual schematic	×	×
Energy management	Mode/Remote controller limit	
Group management	×	×
Error check function	●	●
System parameter querying	●	●
USB output	×	×
Report display	×	×
Operation log	×	×
LAN access	×	×
Language supported	English	
Dimensions (WxHxD) (mm)	179x119x74	179x119x74
Power supply	198-242V AC (50/60Hz)	
Outdoor unit series or indoor unit series	MDV4i/Mini VRF-Standard Series ODU	MDV4i/Mini VRF-Standard Series ODU

Note:
 ●: equipped as standard; ×: without this function
 *means this function is only available for MDV6/MDV6i/MDV6R/MDV4i outdoor unit.

Touch Screen

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



Electricity Charge Distribution

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



Energy Management

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



Unit Model Recognition

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

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

Visual Schematic

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



Group Management

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



Outdoor Unit Configuration

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



Note: This function is only available for MDV6/MDV6i 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.



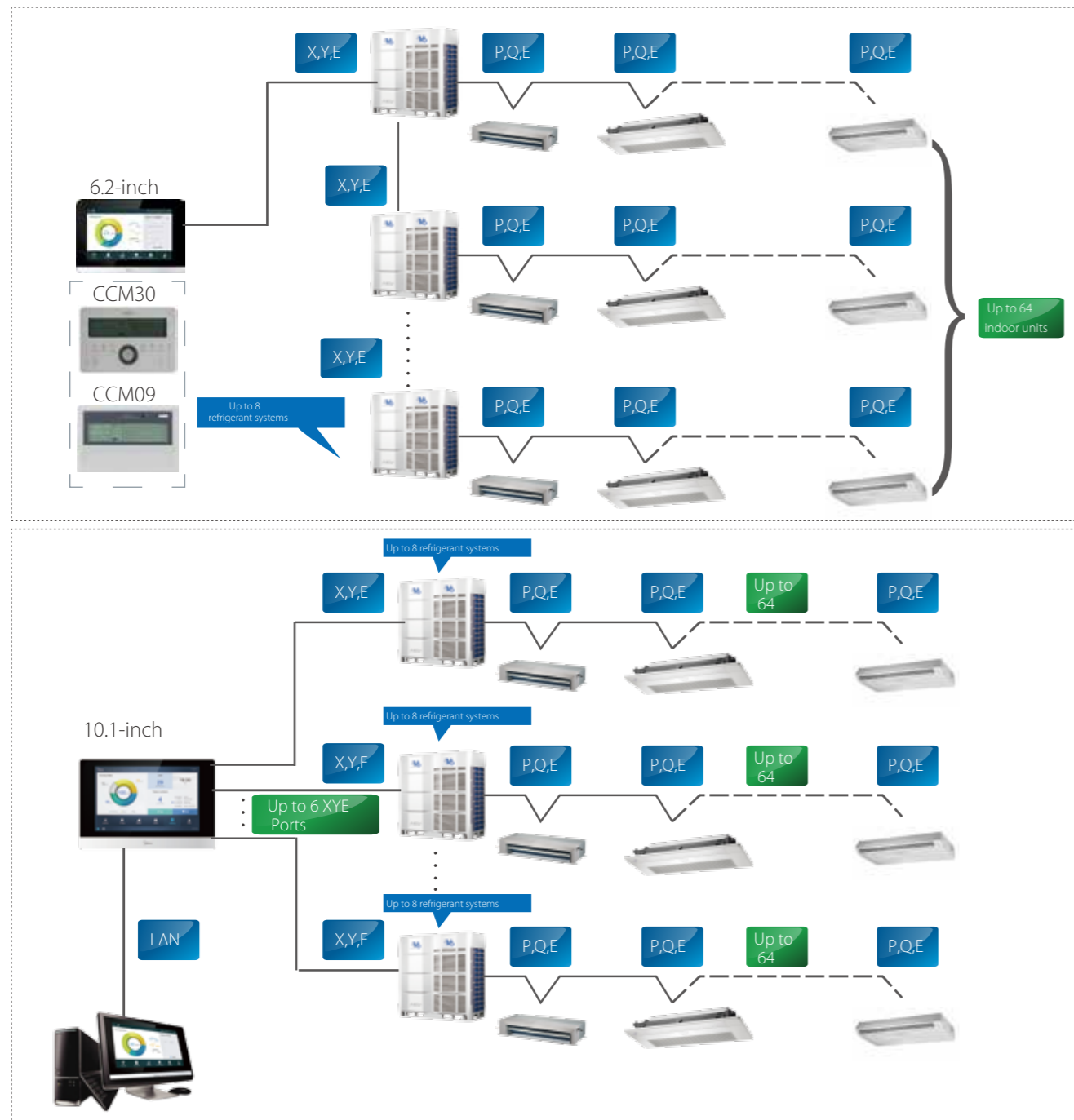
LAN Access

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

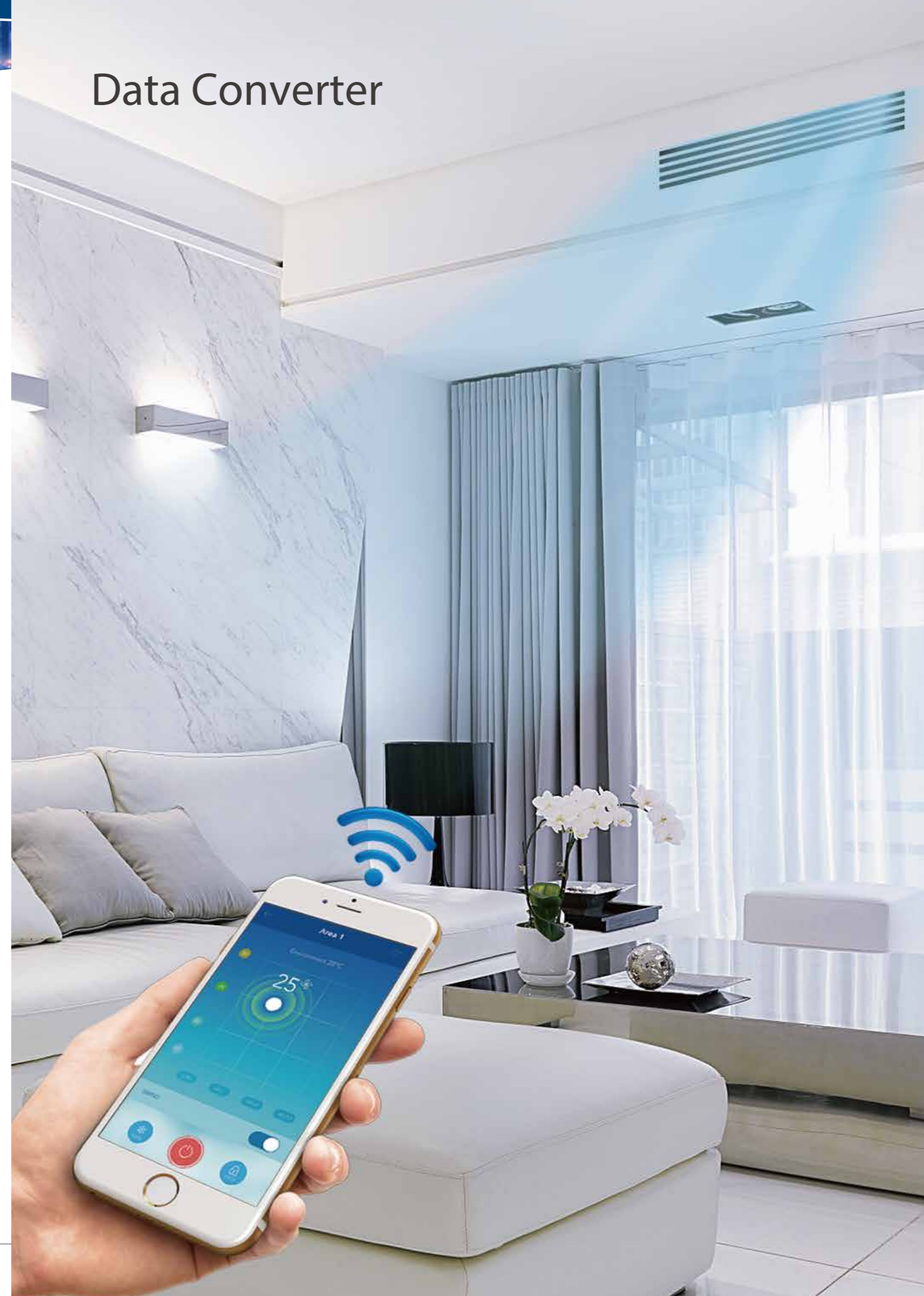


Wiring Flexibility



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°C steps)	● (1°C steps)
7-speed fan control	×	×
Auto swing	●	●
5-step swing louver	×	×
Room temperature display	●	●
°C/°F display	●	●
Weekly timer	●	●
Indoor unit type recognition	×	×
Energy management	●	●
Group management	●	●
User group management	●	●
Operation log	●	●
Device log	●	●
Login record	●	●
Error log	×	●
Configuration	●	×
Account registration	●	×
Virtual	●	×
Mode display	●	●
Languages supported	English, French, Spanish	English, French, Spanish
Dimensions (WxHxD) (mm)	187x115x28	
Power supply	1 phase, 100-240V, 50/60Hz	
Outdoor unit series	All series*	

Note:
 ●: equipped as standard; ×: without this function
 *For the MDV6R series, the CCM-15 is under development.

High Compatibility

Compatible with a variety of operating systems.



Easy Configuration

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



User Friendly Interface

Clear, stylish interface designed by leading industrial designers.



Convenient Operation

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



Cloud Server Website

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



Anytime Control

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



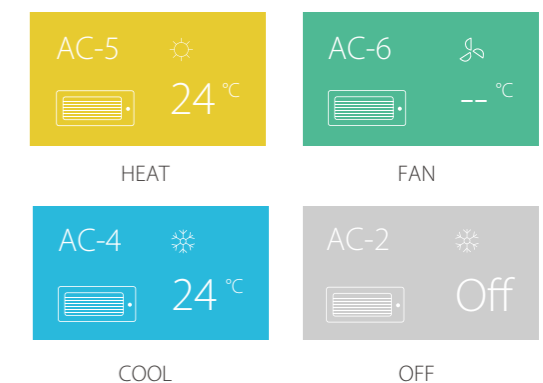
Virtual Experience

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



Clear Icons

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



Group Management

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



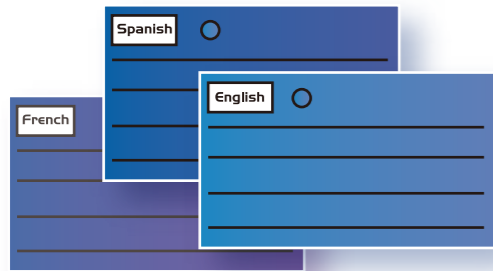
2 Permission Levels

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



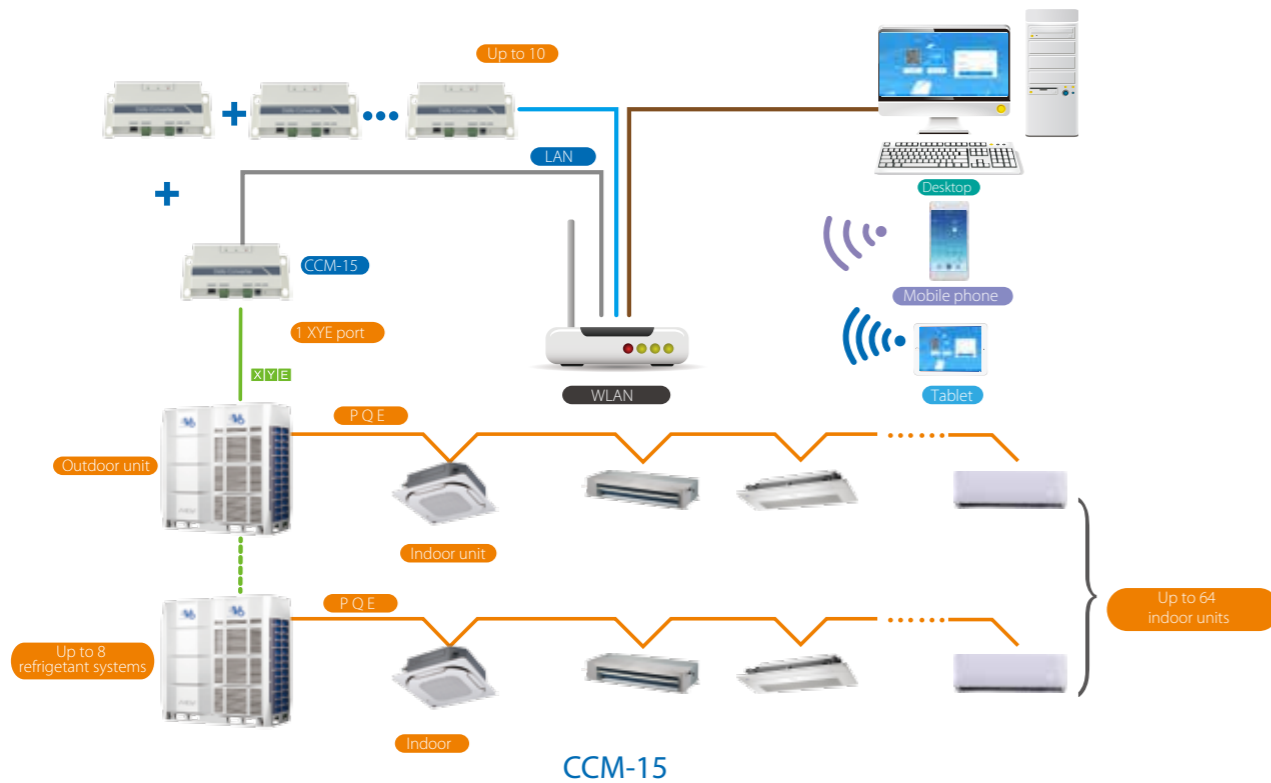
Multiple Language Options

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



Flexibility

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



Network Control System



Features

Software model	IMMP-S(A)		IMM
Hardware model	IMMP-BAC(A)	CCM-270B/WS(A)	M-interface
Max. number per software system	10	10	4
Max. number of indoor units	2560	3840	1024
Max. number of refrigerant systems	320	480	16
Temperature setting	● (0.5°C steps)	● (0.5°C steps)	● (1°C steps)
7-speed fan control*	●	●	✗ (3-speed)
Auto swing	●	●	●
5-step swing louver	●	●	✗
Outdoor unit Eco mode setting	●	●	✗
Holiday setting	●	●	✗
Schedule management	●	●	●
Clock display	●	●	●
2 permission levels	●	●	●
Unit model recognition	●	●	✗
Electricity charge distribution	●	●	●
Visual schematic	●	●	●
Energy management	●	●	●
Group management	●	●	●
Error check function	●	●	●
System parameter querying	●	●	●
Report output	●	●	●
Operation log	●	●	●
LAN access	●	●	●
Languages supported	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Hungarian, Russian, Korean		9 languages
Dimensions (WxHxD) (mm)	251x319x61	270x183x27	251x319x66
Power supply	1 phase, 100-240V, 50/60Hz	24V AC	1 phase, 100-240V, 50/60Hz
Outdoor unit series	MDV6/MDV6i/MDV6R/MDV4i/Mini C		MDV4i/Mini VRF-Standard Series

Note:
 ●: equipped as standard; ✗: without this function
 *means this function is only available for MDV6/MDV6i/MDV6R/MDV4i(10-12HP) outdoor unit.

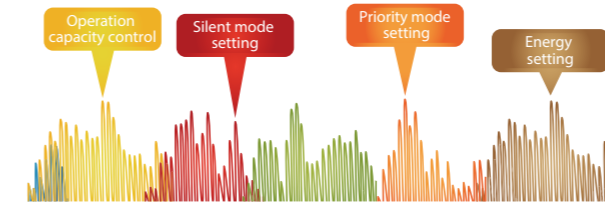
User-friendly Interface

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 MDV6/MDV6i outdoor unit.

Electricity Charge Distribution

The IMMPRO uses the patented MDV 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.

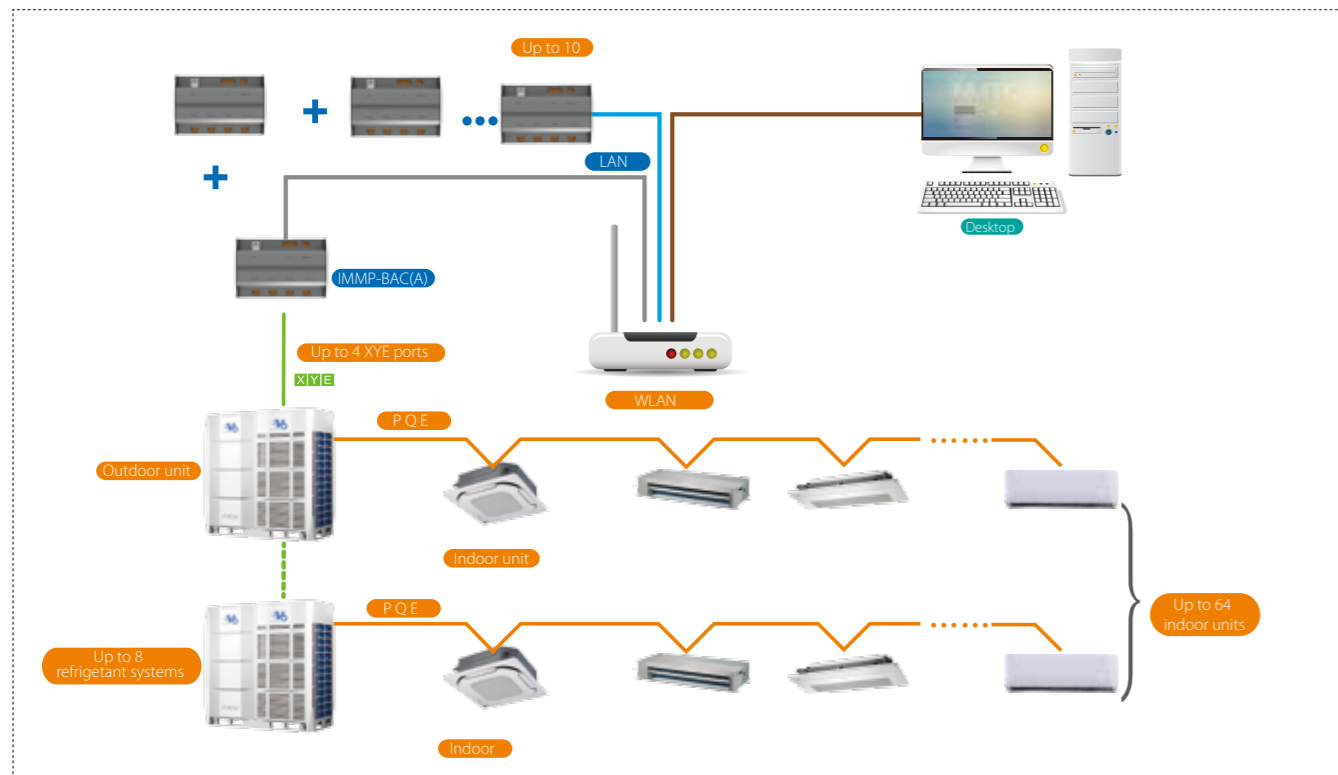


Xpress Installation

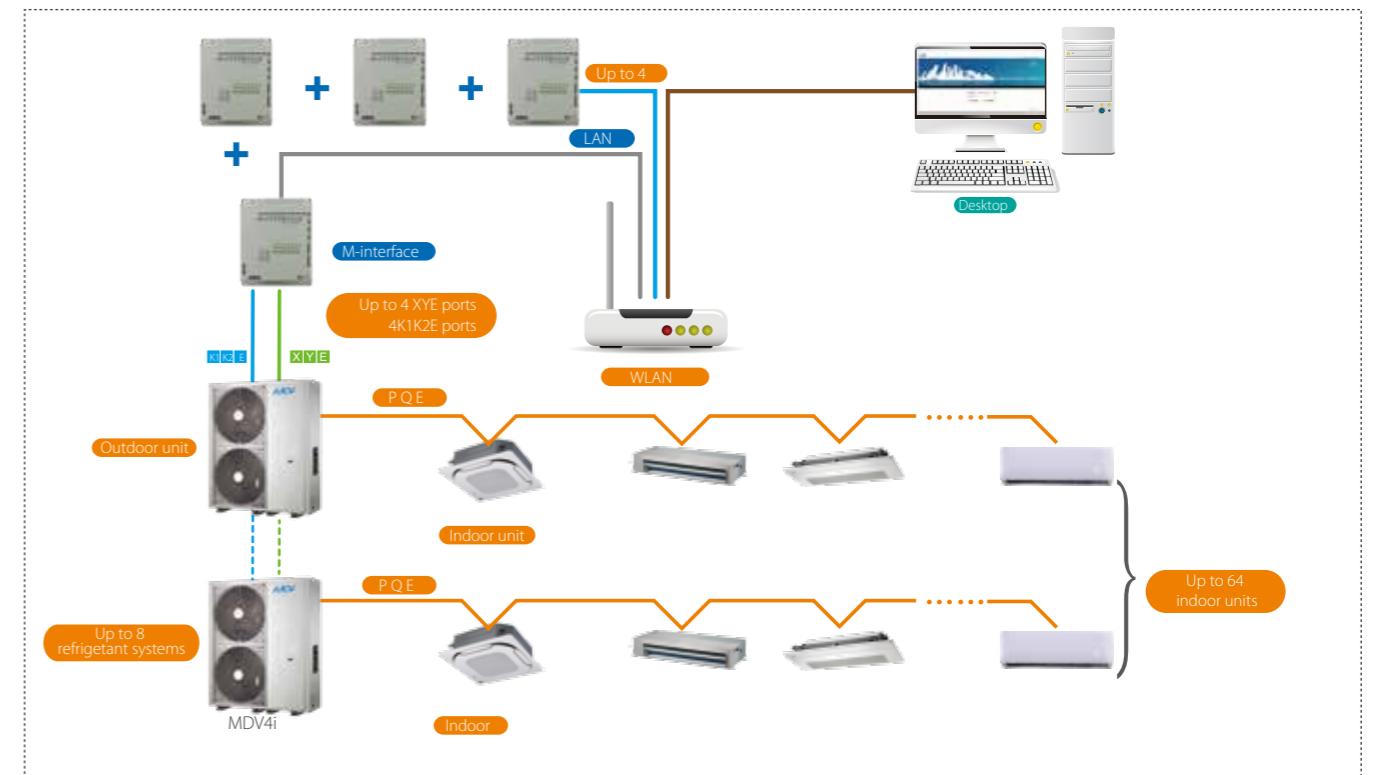
With the Xpress Installation wizard, IMMPRO can be installed quickly and easily without requiring support from a technical support engineer.



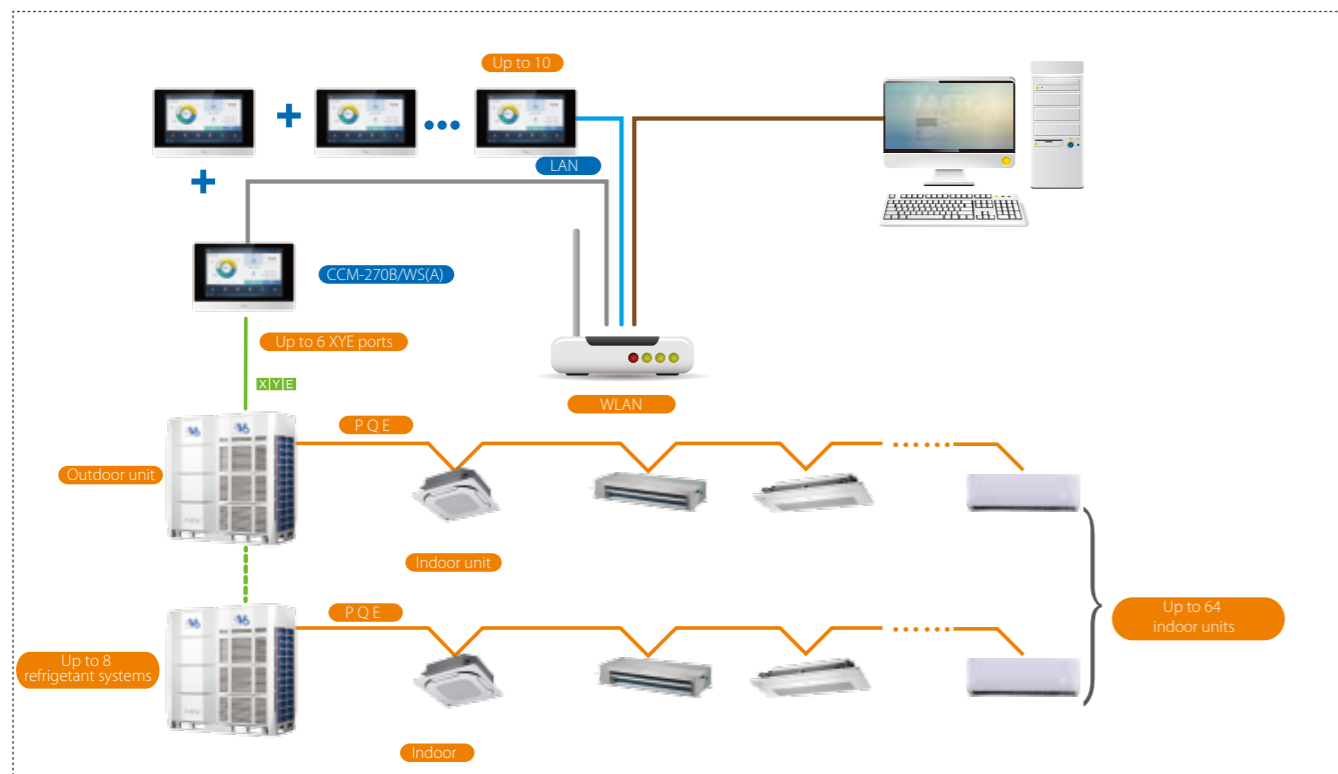
Network Flexibility



IMMP-BAC(A)



M-interface



CCM-270B/WS(A)

M-BMS MAX

Project Qty Level A

57,028

Current month

5,325

VRF 3,204 Air-cooled modular chiller water system 459
Air-cooled heat pump 1,541 Centrifugal/screw chiller water system 130

2019年12月24日 20:16:23

Shunde

	12.25	12.26	12.27	12.28
	Wednesday	Thursday	Friday	Saturday
20				
16-26°C	16-26°C	13-25°C	15-21°C	16-22°C
NWwind 2level	Cloudy	Cloudy	Cloudy	Light rain
Cloudy	Cloudy	Cloudy	Cloudy	Light rain

Transient Chain Indexes

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

Real-Time Monitoring Data



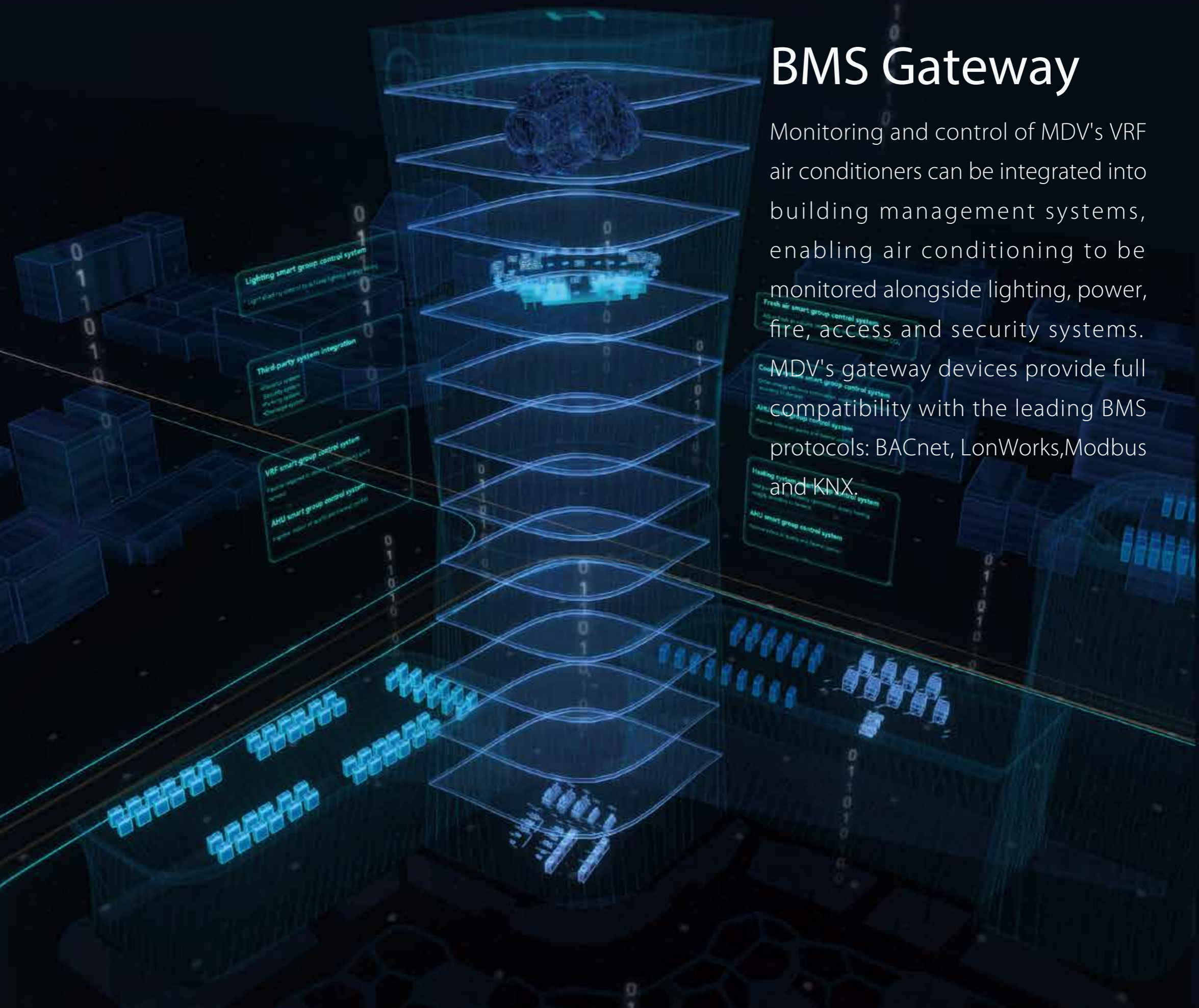
Plant Room Power Data



BMS Gateway

Monitoring and control of MDV'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.

MDV's gateway devices provide full compatibility with the leading BMS protocols: BACnet, LonWorks, Modbus and KNX.



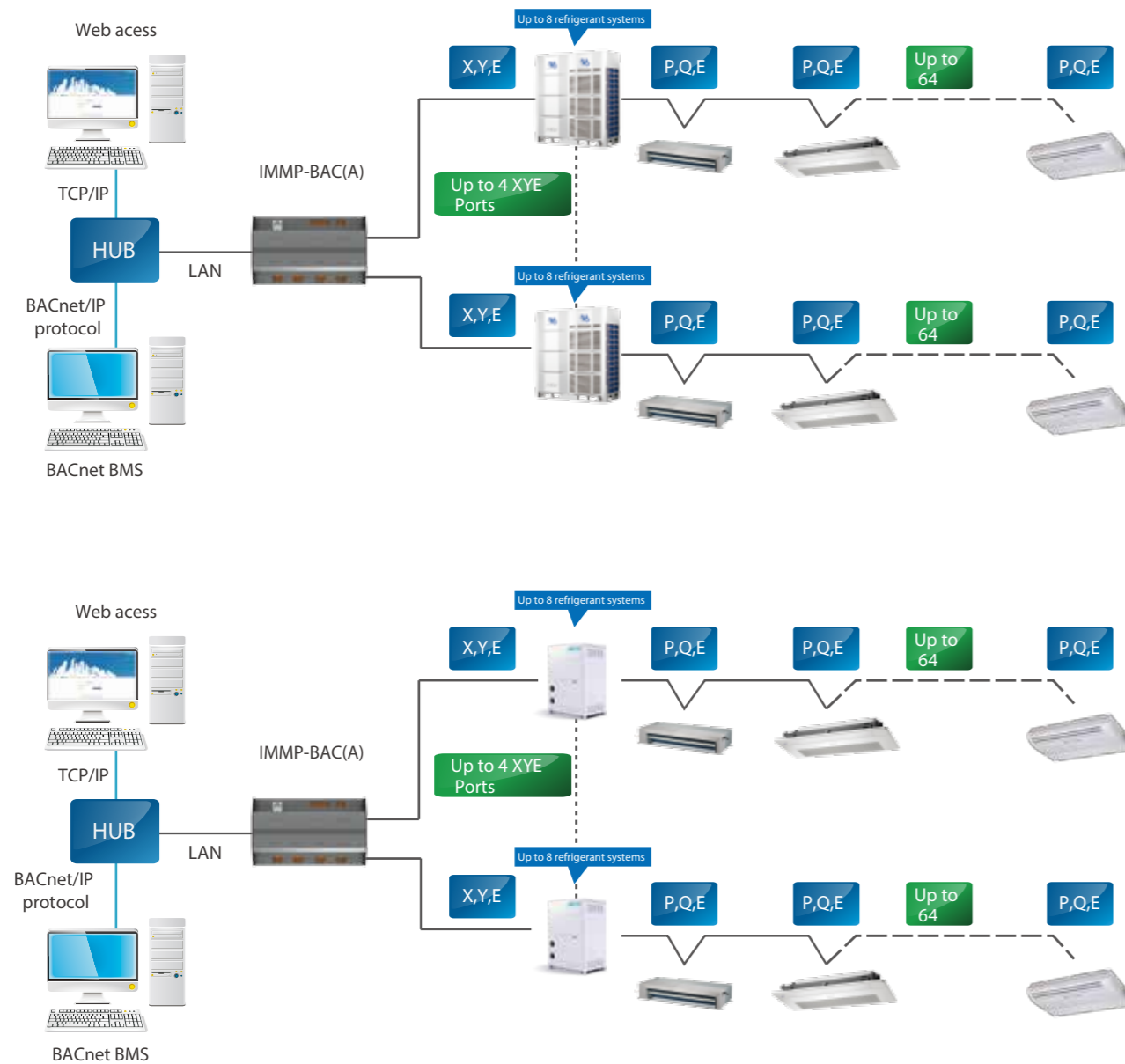
BACnet Gateway

Full Integration

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


Network Flexibility

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



Note: Need to use a protocol conversion kit if you want to get the ODU parameters also for MDV4i ODU

Features

Model		 IMMP-BAC(A)
Max. number of devices (include indoor and outdoor units)		256
Max. number of refrigerant systems		32
Control	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Energy management	●
Indoor unit monitoring	Room temperature display	●
	Error status	●
	Error alarms	●
Outdoor unit monitoring	Operating mode	●
	Outdoor ambient temperature	●
	Fan speed	●
	Compressor operating frequency	●
	Discharge temperature	●
	System pressure	●
	Error status	●
	Error alarms	●
	LAN access	●
BTL certification	●	
Compatibility	Siemens	APOGEE
	Trane	TRACER
	Honeywell	ALERTON
	Schneider	Andover Continuum
	Johnson Controls	METASYS
Dimensions (HxWxD)(mm)		116x190x67
Power supply		24V AC~50/60Hz
Outdoor unit series		All series

Note:
●:equipped as standard

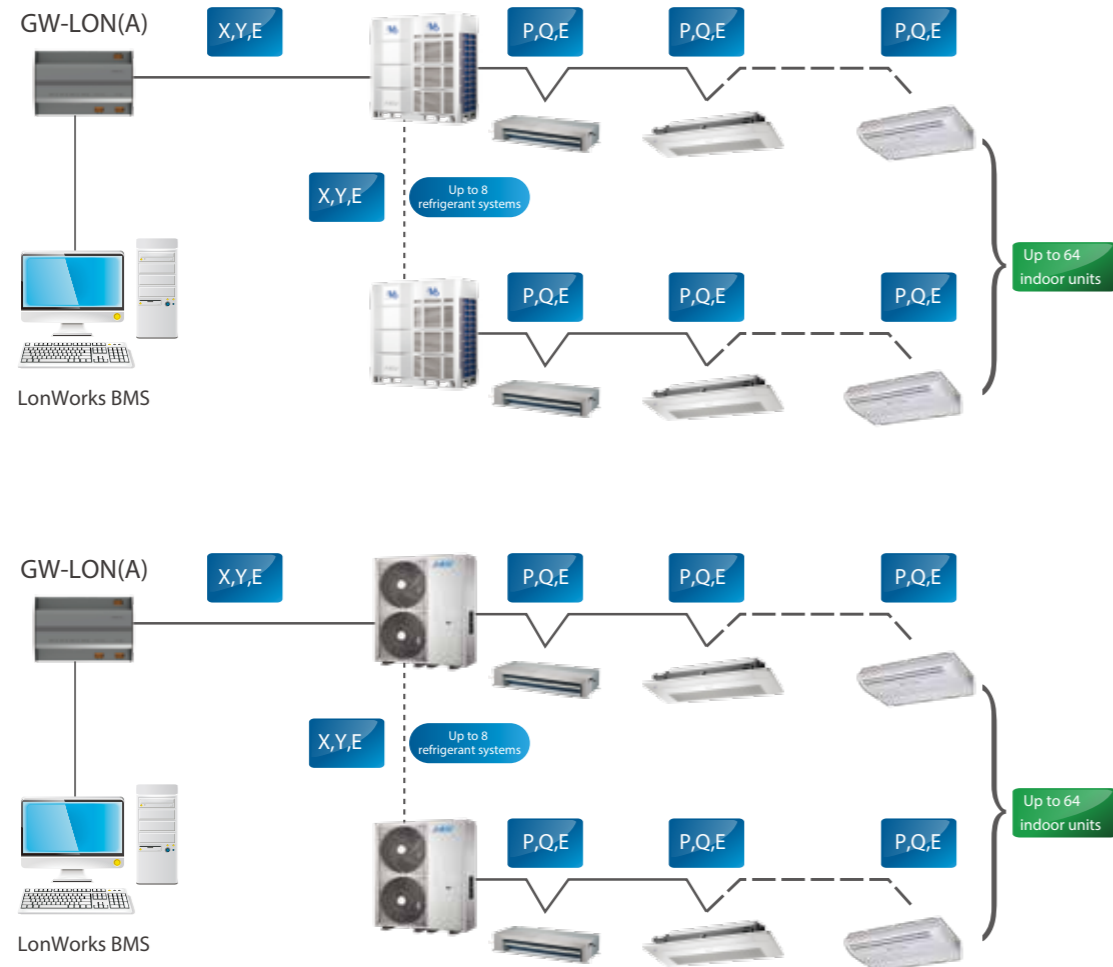
LonWorks Gateway

Full Integration


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

Network Flexibility

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



Features

Model		 GW-LON(A)
Max. number of indoor units		32
Max. number of refrigerant systems		8
Control	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Group shut down	●
	On / Off	●
Indoor unit monitoring	Operating mode	●
	Set temperature	●
	Fan speed	●
	Online status	●
	Operating status	●
Indoor unit monitoring	Room temperature	●
	Error status	●
	Error status	●
Outdoor unit monitoring	Error status	●
Dimensions (HxWxD)(mm)		116x170x67
Power supply		24V AC~50/60Hz
Outdoor unit series		All series

Note:
●: equipped as standard

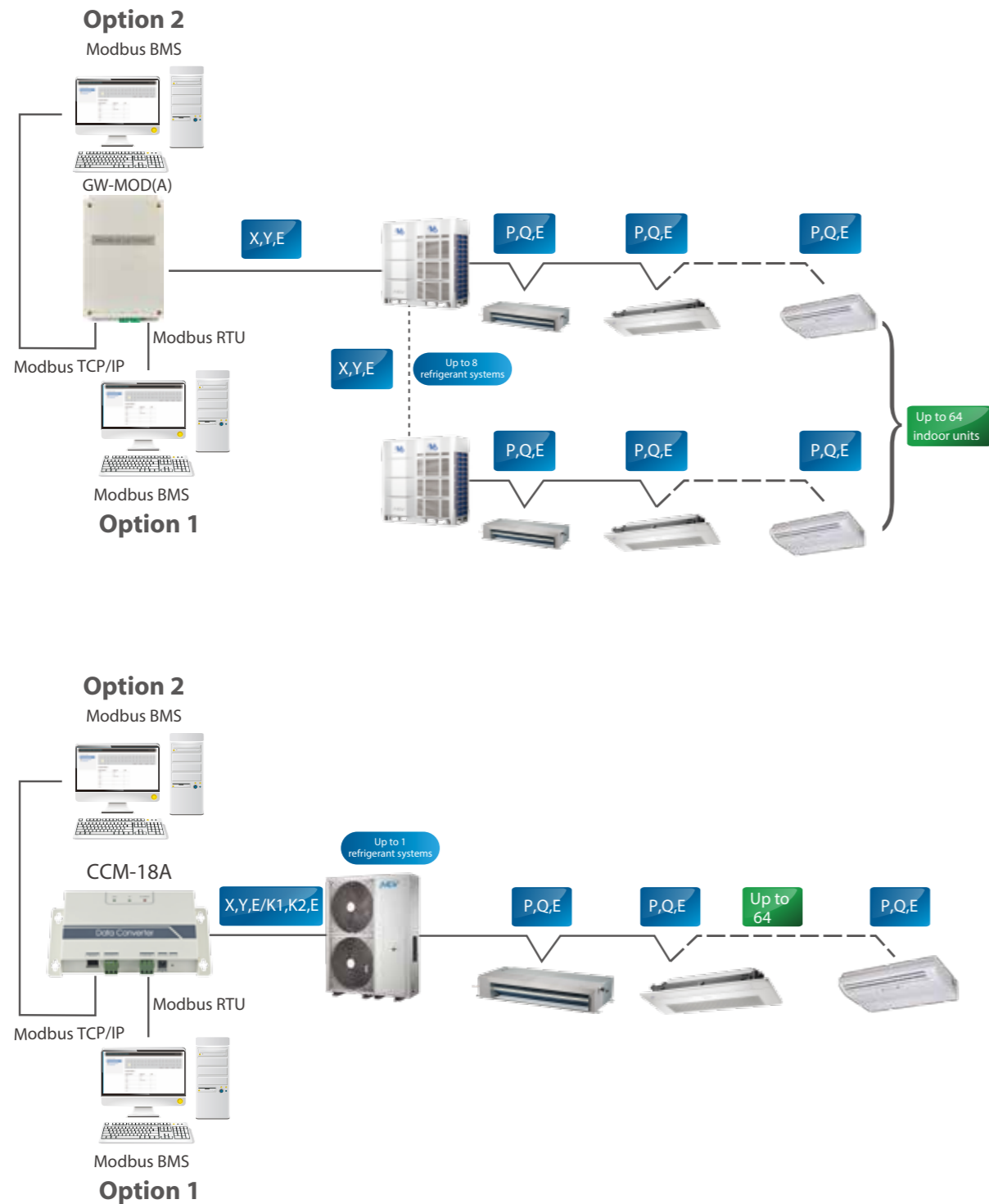
Modbus Gateway

Full Integration

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

Network Flexibility

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



Features

Model		GW-MOD(A)	CCM-18A/N	CCM-18A/N-U
Max. number of indoor units		64	64	16
Max. number of refrigerant systems		8	1	1
Control	On / Off	●	●	●
	Mode selection	●	●	●
	Temperature setting	●	●	●
	Fan speed	●	●	●
	Group on/off	●	●	●
Indoor unit monitoring	Online status	●	●	●
	Room temperature	●	●	●
	Error status	●	●	●
	Operating mode	●	●	●
Outdoor unit monitoring	Operating mode	●	●	×
	Number of operating IDUs	●	●	×
	Outdoor ambient temperature	●	●	×
	Error status	●	●	×
LAN access		●	●	●
Dimensions (HxWxD)(mm)		225x128x28	187x115x28	
Power supply		12V DC	1 phase, 100-240V, 50/60Hz	
Outdoor unit series		MDV6/MDV6i/MDV6R/Mini C ODU	MDV4i/Mini VRF-Standard Series	

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

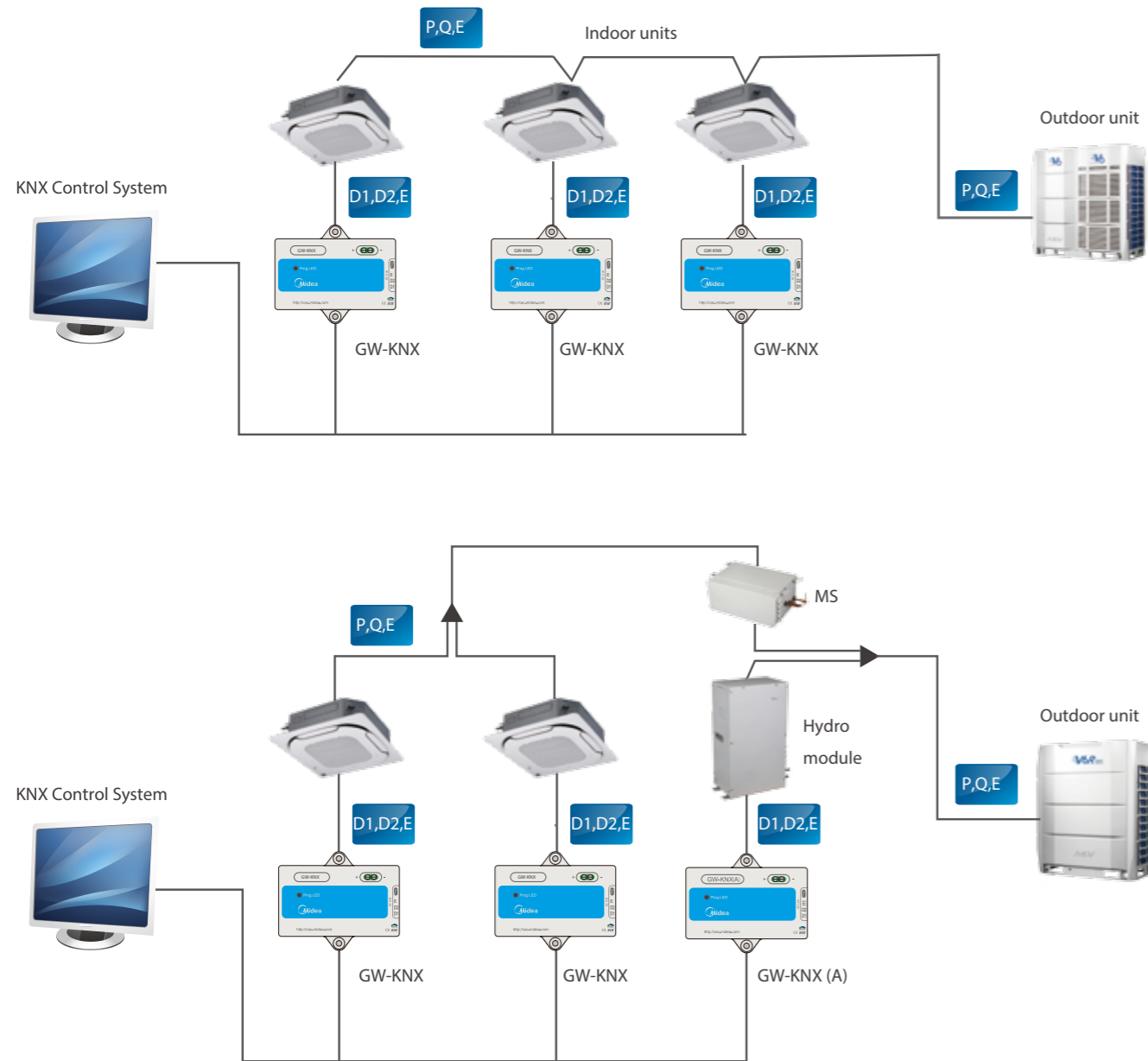
KNX Gateway

Full Integration


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


Network Flexibility

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



Features

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

Model		 GW-KNX(A)
Max. number of HTHM		1
Control	On / Off	●
	Room temperature	●
	Water outlet temperature	●
	Mode Switching	●
	Temperature control in water heating mode	●
Monitoring	On / Off	●
	Current running mode	●
	Water outlet temperature	●
	Room temperature	●
	Control status	●
	Current temperature in water heating mode	●
Error codes		●
Dimensions (HxWxD)(mm)		85x51x16
Power supply		29VDC (KNX bus supply)
Indoor unit series		High Temperature Hydro Module for MDV6R

Note:
●: equipped as standard



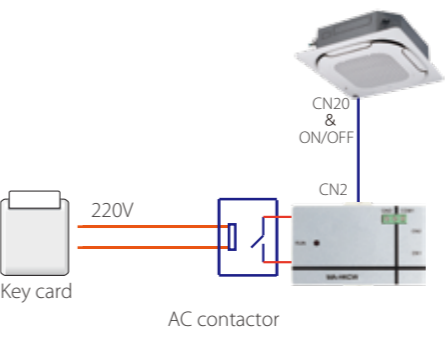
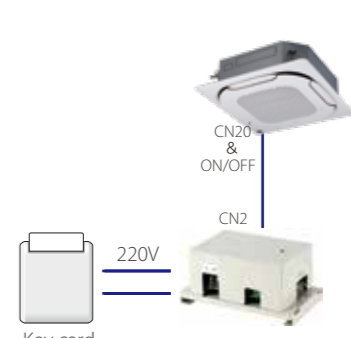


Hotel Key Card Interface Modules

Full Integration

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

Features

Model	MA-HKCW	MA-HKCS
Appearance		
Network flexibility		
Auto restart	●	●
Compatibility	Remote and wired controller	Remote and wired controller
Dimensions (HxWxD) (mm)	15.5x86x72.8	87x150x70
Power supply	5V DC (Supplied by indoor unit)	220V AC
Indoor unit series	All series	

Note:
●: equipped as standard



Infrared Sensor Controller

Full Integration

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

Features

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


Diagnosis Software

Monitor and Diagnose

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

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

Features

Model		 MCAC-DIAG-B(A)
Max. number of indoor units		64
Max. number of refrigerant systems		1
Control	Mode selection	●
	Temperature setting	●
	Fan speed	●
Outdoor unit monitoring	Operating mode	●
	Capacity	●
	Compressor operating frequency	●
	Operating current	●
	Error status	●
	Temperatures	T3,T4,Tp (See note 1)
	Valve statuses	SV4, SV5, SV6, ST1 (See note 2)
	EXV position	●
Indoor unit monitoring	Operating mode	●
	Capacity	●
	Fan speed	●
	Address	●
	Temperatures	T1, T2, T2B, TS (See note 3)
	EXV position	●
Error codes		●
Troubleshooting		●
Data logs		●
Diagrams		System schematic, refrigerant flow diagram, parameter chart
Languages supported		English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Hungarian, Russian, Korean
Outdoor unit series		MDV6/MDV6i ODU

Note:

●: equipped as standard

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

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

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

Expert Diagnosis

MDV'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

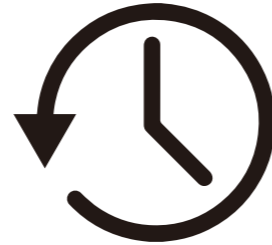
A stylish and simple interface with rich graphical representations makes diagnosing system issues quick and convenient.



Data Logs

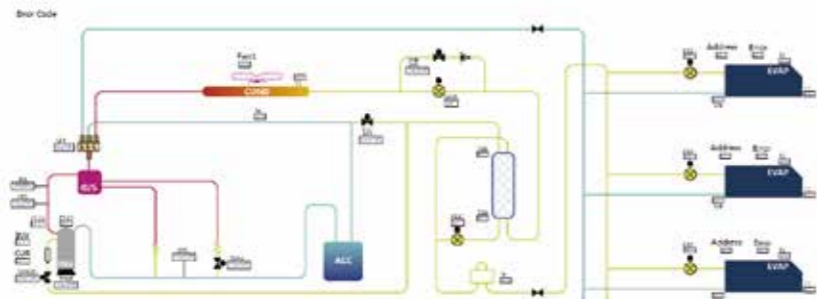
Data logs including operating records and error reports are saved by the software which is useful for discovering system issues.

Data logs

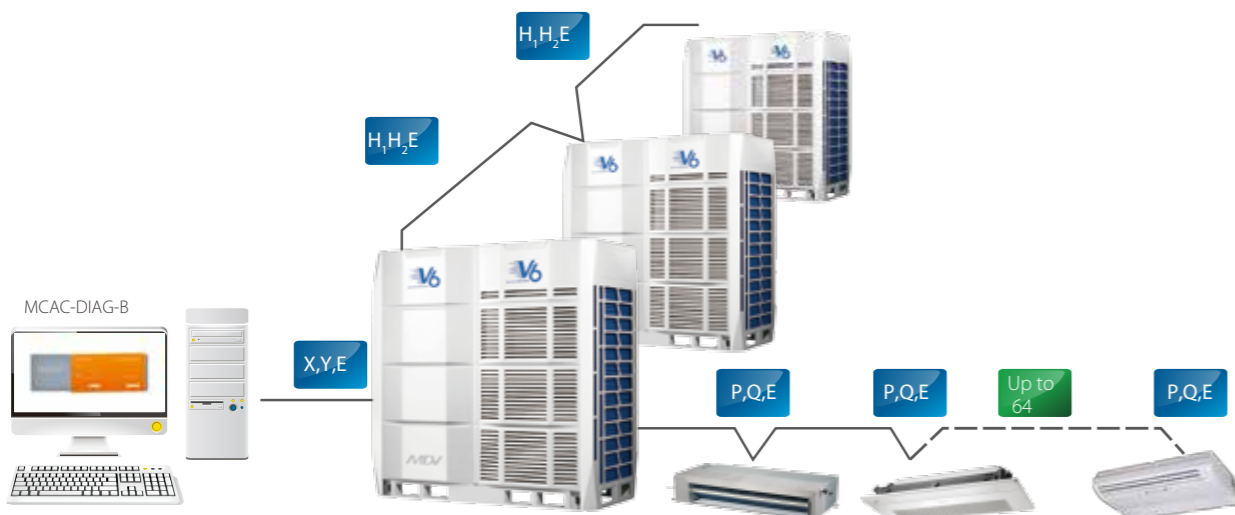


Diagrams

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



Wiring Schematic




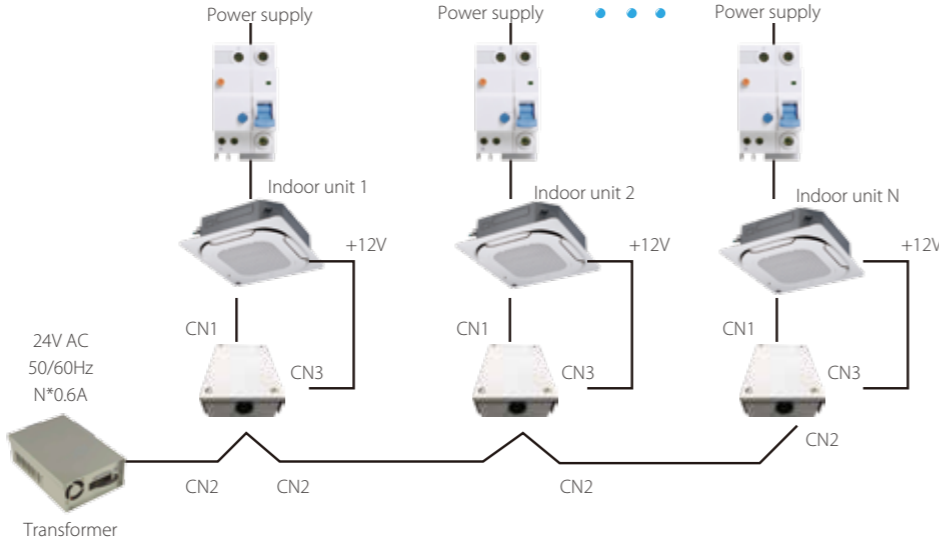
Indoor Unit Online Kit



IDU Online Kit

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

Features


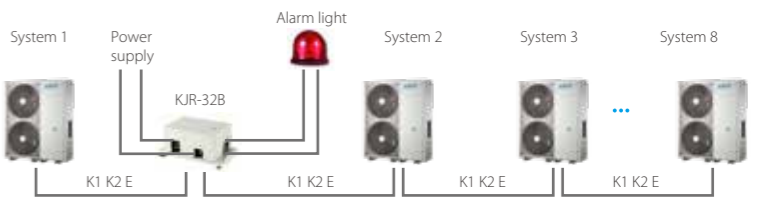
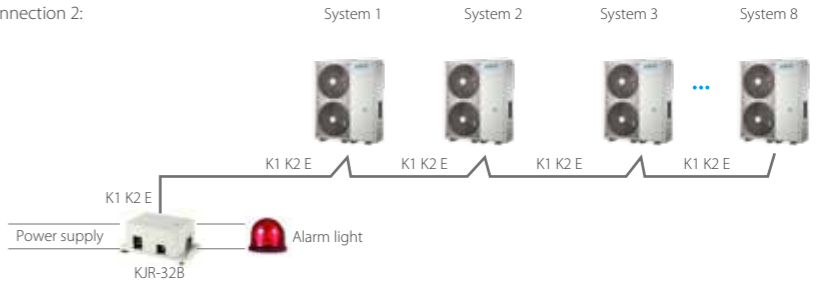
Model	 MCAC-PIDU
Network flexibility	
Dimensions (HxWxD)(mm)	146.6 x 100.6x 46.8
Power supply	24V AC
Indoor unit series	All series

Remote Alarm Module

Simple Design

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

Features



Model	 KJR-32B
Max. number of refrigerant systems	8
Wiring flexibility	<p>Wiring connection 1:</p>  <p>Wiring connection 2:</p> 
Dimensions (HxWxD)(mm)	85X150X70
Power supply	198-242V (50/60Hz)
Outdoor unit series	MDV4i ODU

Network Electricity Distribution Module

Simple Design

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

Features


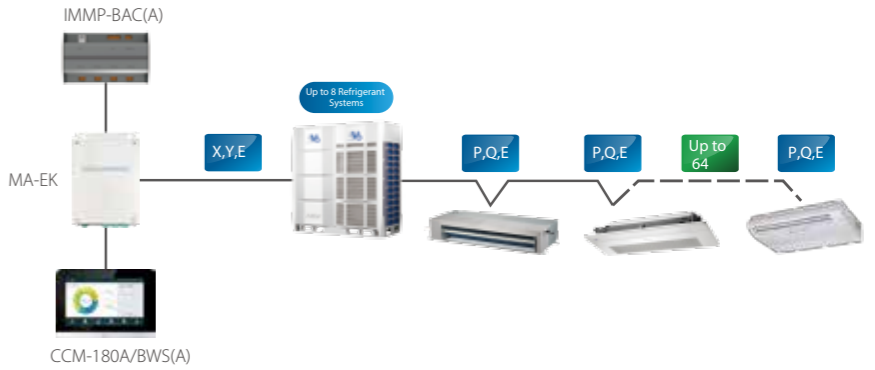
Model	 MD-NIM10
Max. number of outdoor unit	1
Wiring flexibility	
Dimensions (HxWxD)(mm)	85X150X70
Power supply	198-242V (50/60Hz)
Outdoor unit series	Mini VRF - Standard Series

XYE Extension Kit

Simple Design

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

Features

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

*Note: Need to use a protocol conversion kit if you want to get the ODU parameters also for MDV4+W/ MDV4+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



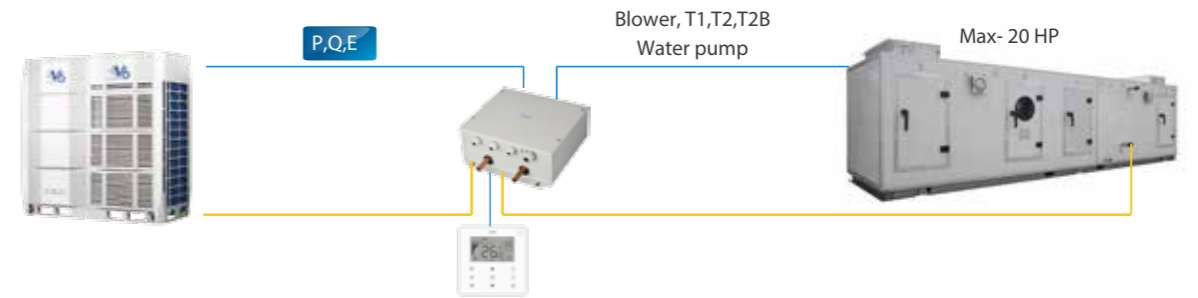
AHUKZ-00D: 2.2~9kW
 AHUKZ-01D: 9~20kW
 AHUKZ-02D: 20~36kW
 AHUKZ-03D: 36~56kW

Compatible with VRF Systems

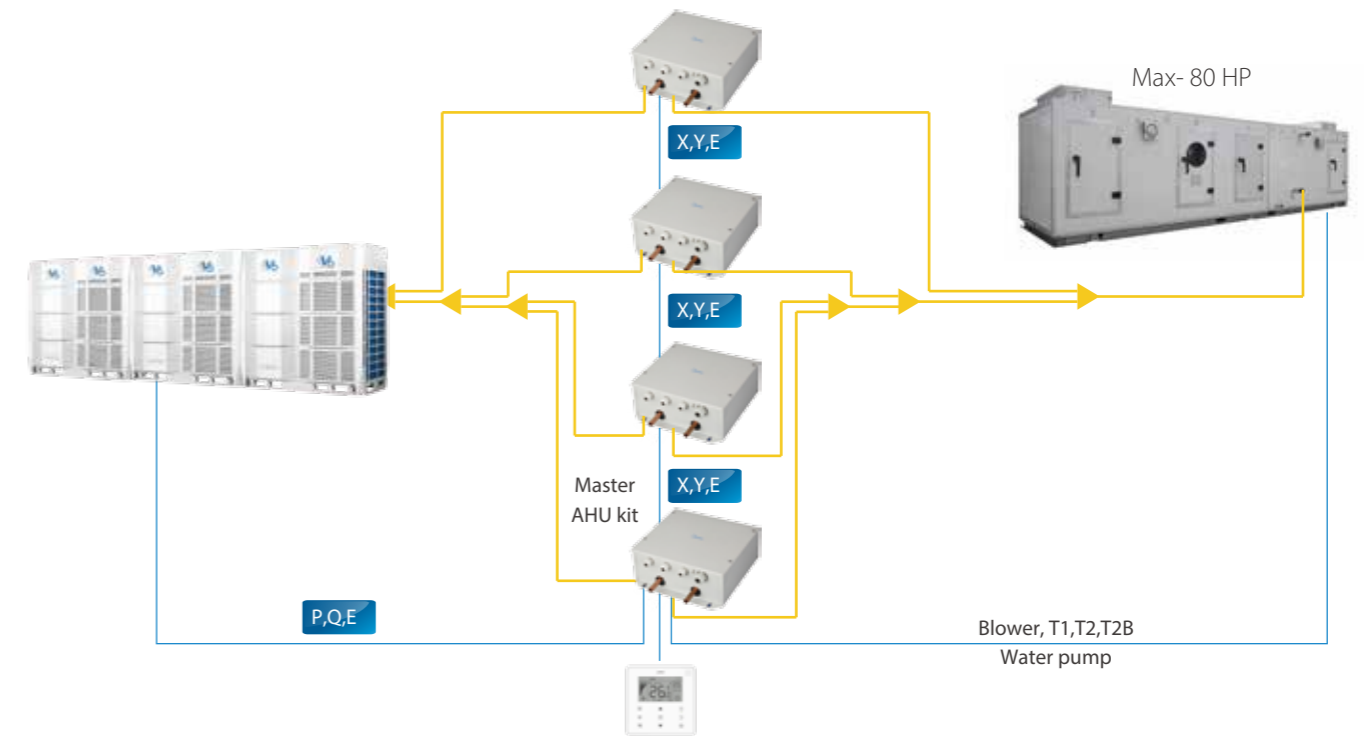
AHU Control Box are compatible with MDV VRF outdoor units and can be used together with all types of MDV VRF indoor units.



Single AHU Control Box Connection



Multi AHU Control Boxes Connection



Specifications

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

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

Branch Joints

For Heat Pump Outdoor Units

Type	Appearance	Model	PackedDimensions mm	GrossWeight kg	Note
Branch joints for MDV6 VRF		FQZHW-02N1E	255x150x185	2.0	Connecting two outdoor units
		FQZHW-03N1E	345x160x285	4.3	Connecting three outdoor units
Branch joints for MDV4W VRF		FQZHW-02N1D	255x150x185	1.5	Connecting two outdoor units
		FQZHW-03N1D	345x160x285	3.4	Connecting three outdoor units
		FQZHW-04N1D	475x165x300	4.8	Connecting four outdoor units

For Heat Recovery Outdoor Units

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

Branch Joints

For Indoor Units

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

Dimensions

Outdoor Branch Joints

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

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				
FQZHN-04SB1				
FQZHN-05SB1				
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		

Branch Header

For Indoor Units

NOTE

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

Lined area for notes, consisting of 15 horizontal lines.