

C-VCMAX202406



VCMAX Catalogue Series VRF

SMART IN ONE

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Midea Group

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2024



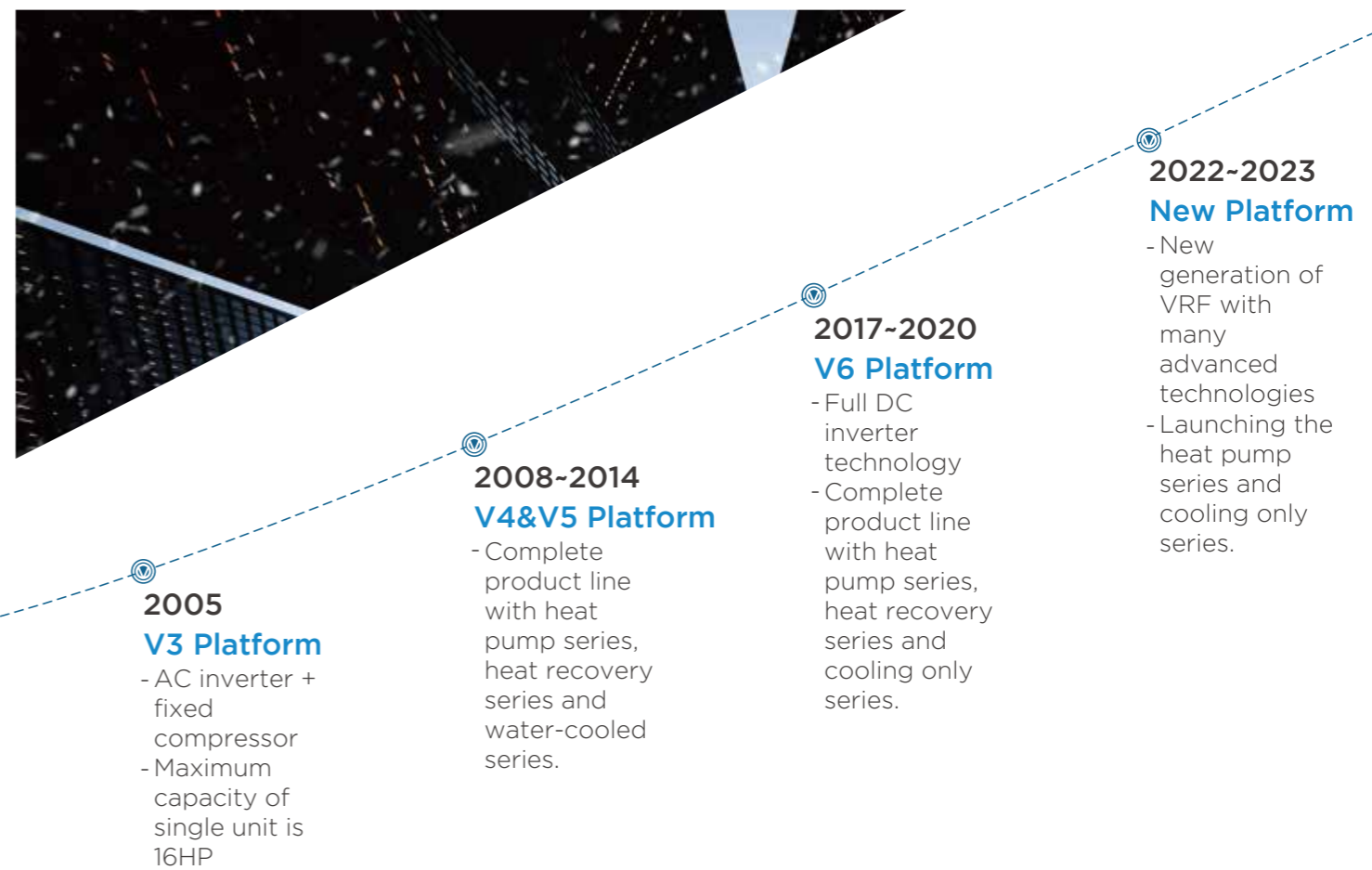
Midea MBT

Midea MBT (Midea Building Technologies) is a key division of the Midea Group, a leading provider of comprehensive solutions for intelligent buildings. It specializes in energy sources, elevators, control systems, and heating, ventilation & air conditioning. Midea MBT continues the tradition of innovation upon which it was founded and has emerged as a global leader in the HVAC and building management industry. A strong

drive for advancement has resulted in an extensive R&D department that has placed Midea MBT at the forefront of the competition. Through independent projects and joint-cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide.



Midea VRF History



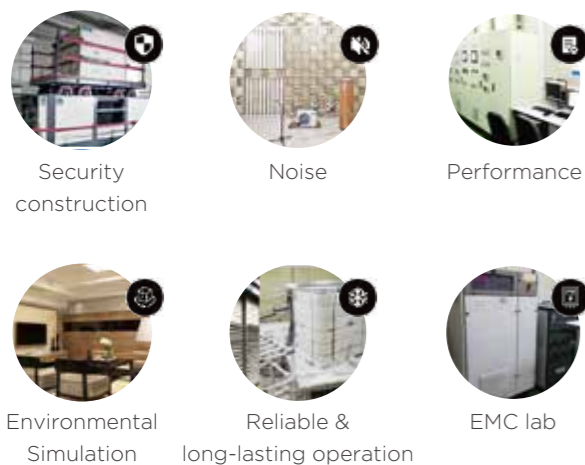
3 businesses make up the core of Midea intelligent building solutions.



4 production bases can achieve fast delivery.



Over 100 testing labs cover a wide range of real application scenarios.



All products can be visualized and digitalized throughout entire process.



Benefits of Midea VRF

For End-users

- Healthy Operation
- Cost Saving Operation
- Comfortable Environment



For Consultants

- Diversified Solutions
- Professional Tool and Support
- Design Flexibility



For Building Owners

- Energy Saving Management
- Reliable Operation
- Backup Solution



For Construction Companies

- Green Solutions
- Space Saving Design
- Intelligent Management



Application Solutions

Office Complexes

Enjoy comfort while working

Midea VRF provides solutions for office buildings of all sizes and its smart control solutions streamline the management of VRF. It offers a wide variety of indoor units that are suitable for all designs.



Residential Apartments

One for every home

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



Hotels & Shopping Malls

Increase your business, not your bills

The high efficiency and reliability of Midea VRF make it ideal for commercial applications. Intelligent control solutions like hotel key cards and touch screen controller make management easy.



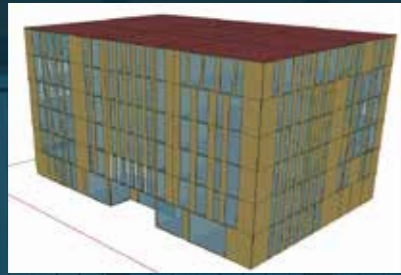
Hospitals/ Schools/ Airports

Meeting all expectations

The innovative design and variety of indoor unit options make Midea VRF suitable for all kinds of applications. The newly designed puro-air kit is perfect for modern hospitals.



Design Service

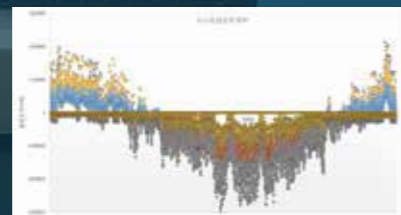


Energy Plus Building load calculation

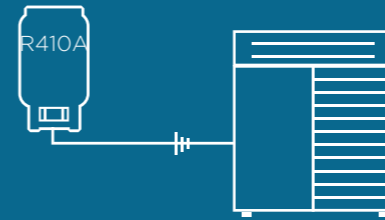


MSSP Online VRF system design

BIM building information import



Installation service

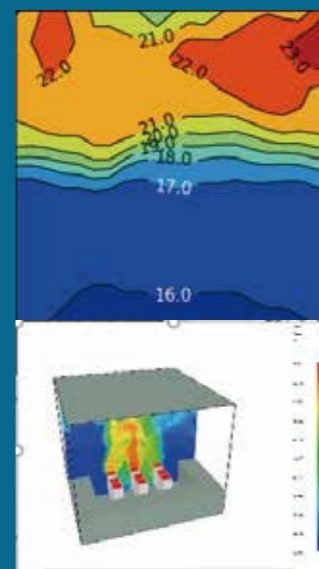


Automatic refrigerant charge



Automatic commissioning report

MCFD Energy consumption and airflow simulation optimization



Management service



The probability of Filth blockage 80%



Degradation of energy efficiency 25%

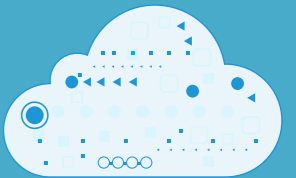
Continuous energy saving service



After-sales service



Intelligent maintenance tool



Cloud-based big data analytics

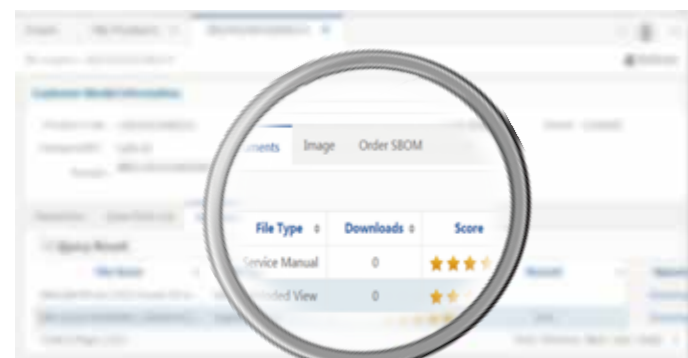
2 +10 +N Spare Parts Layout can ensure the timely supply of global after-sales spare parts.



International Service Management (ICS)

ICS is a platform for customers to seek professional technical support. Through ICS, you can inquire about product information, documentation, spare parts and troubleshooting, ask technical questions, submit complaints, and order spare parts.

<https://ics.midea.com>



My order

Inquire about spare parts from an exploded view and place orders for spare parts directly in ICS.

Document inquiry and download

View or download product technical documentation online, such as catalogs, images, training PPTs, etc.

Technical inquiry & FAQ

Ask technical questions online and receive a prompt response from our technicians. Or find a quick solution in the FAQ.

Troubleshooting

Query the error code and solution by SN, model name, error code or product type.

Complain

Submit product quality complaints online, and our after-sales engineers will respond promptly.



Mobile Intelligence Service App (MISA)

MISA is the mobile terminal of ICS, with the same functions as TSP. The mobile service improves the response time and convenience of technical support.

<https://link.midea.com>



FAQ



Complain



Technical Enquiry

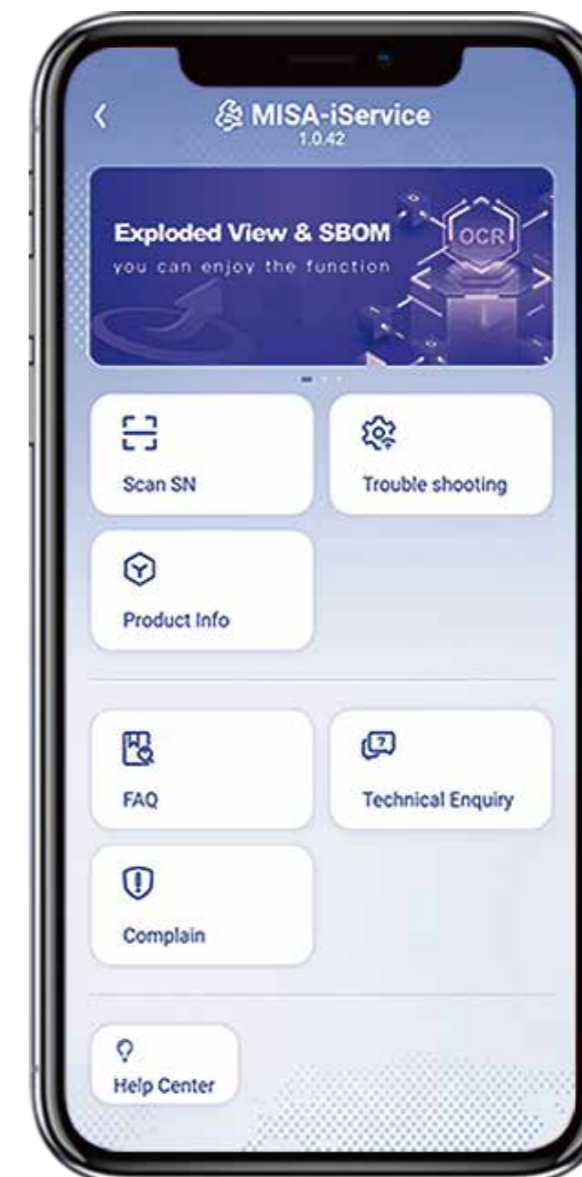


Trouble shooting

Download



Scan to download the mobile app



Search product manuals



Spare parts list

Feedback



Thank you for your attention and feedback

Midea Global Spare Parts Center

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

The “**2** (HQ spare parts center) + **10** (Regional spare parts center) + **N** (Country spare parts inventory)” Spare Parts Layout can ensure the timely supply of after-sales spare parts around the globe.




A modern glass skyscraper is shown at sunset. The building's facade is composed of large glass panels that reflect the warm, golden light of the setting sun. The sky is a mix of blue and orange. In the foreground, there is a paved plaza and some low-lying vegetation. A semi-transparent text overlay is positioned on the left side of the image.

 **OUTDOOR UNITS**

VC MAX

Outdoor Unit Lineup

VC MAX (Combinable series)

	8-20HP	22-30HP
Single Unit		

	32-60HP	62-90HP
Combined Unit		
		



Outdoor Unit Functions

Functions			VC MAX
●: equipped as standard; ○: customization option			
Innovative Technologies	HyperLink	Midea original communication bus chip greatly simplifies installation and saves installation costs	●
	ShieldBox	IP55 fully sealed electric control box realizes resisting all protects against intrusion and damage to the electric control box	●
	SuperSense	17 sensors monitor the state of each part of the refrigerant pipeline throughout the whole process	●
	Midea ETA 2.0	Triple variable control maximizes comfort and energy efficiency	●
	Zen Air 2.0	Provides comfort and healthy air supply	●
	Doctor M 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient	●
High Efficiency	Full DC inverter technology	All electrical components of outdoor and indoor units use DC power supply, improving electrical efficiency and saving energy	●
	Enhanced Vapor Injection (EVI) compressor	Increases refrigerant circulation and improves cooling capacity	●
	Micro-channel refrigerant subcooling	The refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing noise	●
	Low standby power consumption	The standby power consumption is as low as 3.5W	●
	60-step energy management	The system can be set from 40% to 100% capacity output in 1% increments	●
High Reliability	Duty cycling (unit)	Equalizes the running time of the outdoor units in a multiple-unit system, significantly extending unit lifespan (available for combined units)	●
	Duty cycling (compressor)	Equalizes the running time of the compressor in each unit, significantly extending compressor lifespan (available for units with two compressors)	●
	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (available for combined units)	●
	Backup operation (compressor)	If one compressor fails, the other compressor provides backup so that the system can continue operating (available for units with two compressors)	●
	Backup operation (fan motor)	If one fan motor fails, the other fan motor provides backup so that the system can continue operating (available for unit units two fan motors)	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provides backup so that the system can continue operating	●

Outdoor Unit Functions

Functions			VC MAX
●: equipped as standard; ○: customization option			
High Reliability	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating compressor oil shortages	●
	Anti-corrosion protection	Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard	●
	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	○
	Micro-channel refrigerant cooling PCB	10 times higher than ordinary refrigerant pipe cooling efficiency	●
	Auto dust-clean function	Blows away accumulated dust on the outdoor unit, guaranteeing stable unit operations in a dusty environment	●
	Alarm output	In the event of system malfunction, remotely output error information and remind maintenance personnel to conduct maintenance	●
	Fire alarm input	In the event of fire, receive fire information in time and stop the system immediately to avoid serious problems	●
	Enhanced Comfort	Silent mode	15-step silent mode selections provide more freedom and convenience to match the needs of customers
0.1 °C control precision		Control precision of the sensor can reach 0.1°C, ensuring less fluctuations in room temperature	●
Wide Application Range	Wide capacity range	Meets all customer requirements from small to large buildings	8-30HP (single) 32-90HP (combined)
	Wide range of indoor units	Provides 12 types and more than 100 models of VRF indoor units to meet the needs of different application scenarios	●
	Wide operation range	Operates stably under extreme conditions	-15-55°C
	Long piping capability	Benefits for the system design, installation flexibility, as well as the less installation cost	●
	Auto addressing (ODU-IDU)	Distributes addresses to indoor units automatically, simplifying the installation	●

Outdoor Unit Functions

Functions			VC MAX
●: equipped as standard; ○: customization option			
Easy Installation And Service	Auto addressing (ODU-ODU)	Distributes addresses to slave outdoor units automatically, further simplifying the installation (available for combined units)	●
	Automatic refrigerant charging	Makes installation and service easier and more efficient	○
	Automatic refrigerant recycling	Refrigerant can be recycled to ODUs or IDUs and normal ODUs, making the maintenance easier and more efficient	●
	Bluetooth module	It can be used for fault information storage, operation parameter enquiry, system parameter setting, quick after-sales PCB replacement, programme upgrade for indoor and outdoor units, etc., simplifying installation and maintenance.	○
	Digit display	4 digit 7-segment display can be intuitive for parameter setting, parameter checks and error checks	●
	High external static pressure	Up to 120Pa ESP allows easy handling in a variety of installation environments	0-20Pa ● 20-120Pa ○
	Arbitrary topology of communication wire	Supports any communication topology, greatly simplifies installation and reduces installation cost	●
	2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures	●
	Long communication wiring	Communication wiring up to 2000m makes installation more flexible	●
	Wide combination ratio	Combination ratio can be extended to 50%-200% under certain conditions which can meet different project requirements	50-130% ● 50-200% (for single unit system) ○
	Supports manual and automatic oil return	Improves maintenance efficiency	●
	Easy software program upgrade*	The software program can be upgraded via on-site USB and burning, or remotely via the web	●
	Flexible controller connection	Central controller and BMS gateway can connect to the ODU at the same time, and the central controller can connect to the ODU or IDU	●
	Refrigerant amount diagnosis	The unit can diagnose excessive or insufficient amounts of refrigerant, and prompt maintenance personnel to check the system in time to avoid serious malfunction	●
	Easy system commissioning and checking*	System commissioning and checking can easily be completed on-site or remotely via the web	●
Intelligent maintenance tool	Intelligent bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency	○	

*Note: The web function needs to be realized through the data cloud gateway, and the data cloud gateway needs to be purchased separately.

INNOVATIVE TECHNOLOGIES

HyperLink  New & Unique

ShieldBOX  New & Unique

SuperSense  New & Unique

 **ETA 2.0**

 **ENair 2.0**

DOCTOR m. 2.0

Midea's original communication bus chip greatly simplifies installation and saves installation costs.

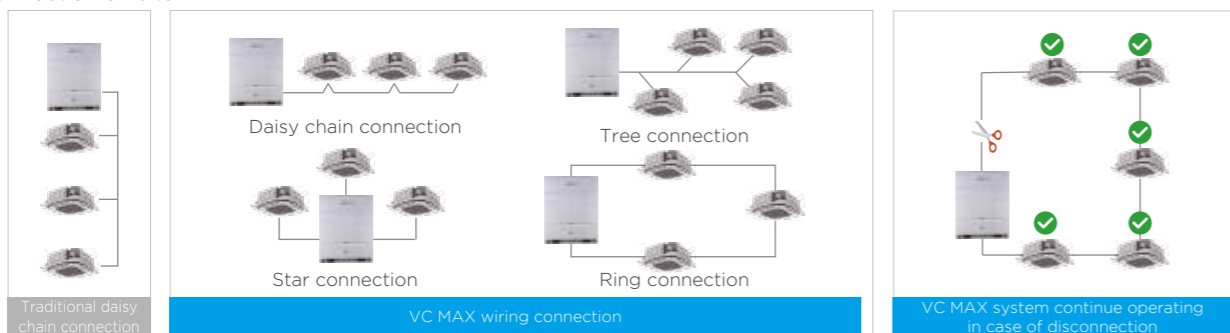


- Benefits**
- Flexible installation
 - Low installation cost
 - High reliability
 - Stable operation

HyperLink communication technology supports any wiring pattern rather than just daisy chain connection, reducing installation costs and the possibility of an incorrect connection. It has stronger anti-interference ability, achieving a communication distance of up to 2000m.

Arbitrary Topology Communication

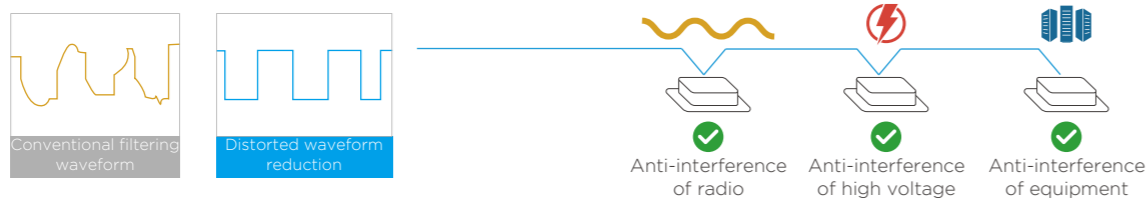
In addition to the traditional daisy chain connection, the communication wire supports tree connection, star connection, ring connection and so on. The wiring is flexible, which greatly reduces installation costs and has no possibility of wrong connection on site.



*In ring connection, the communication wire must be connected polarized (M1 port to M1 port and M2 port to M2 port).

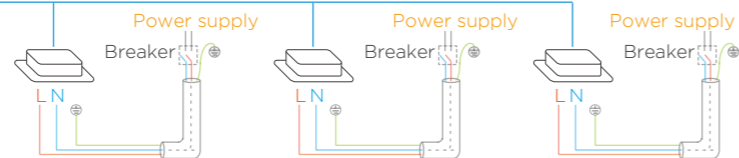
Super Anti-interference Capability

Special waveform restoration technology enhances anti-interference performance for more stable communication.



Flexible Power Supply for Indoor Units

HyperLink's unique communication method allows the indoor units to be powered not only by a uniform power supply, but also by individual and zone power supplies, making it particularly suitable for each shop in a large complex building, which can independently power on and off its own indoor units.



IP55 fully enclosed electric control box provides all-round protection for internal electronic components, greatly improving system **RELIABILITY**.

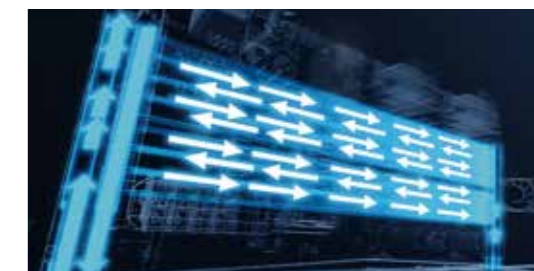


- Benefits**
- High reliability
 - Stable operation
- IP (INGRESS PROTECTION)**
- IP** Dustproof grade code Prevent entry foreign objects and dust
 - 55** Waterproof grade code Prevent water spray in all directions

Fully enclosed electronic components are isolated from the external environment to protect against corrosion, sand, humidity, snowstorms and other harsh conditions, and prevent small animals and insects from entering the chamber. This protects internal electronic devices and improves the overall environmental tolerance.

All Microchannel Refrigerant Cooling

All electronic components including inverter module, filter module and power module are cooled by specially designed microchannel refrigerant to ensure that the electronic components work in the best temperature range.



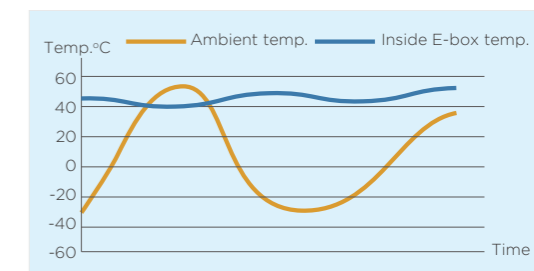
Built-in Circulating Fan

The built-in circulating fan accelerates the air flow inside the chamber, and the heat exchange is more sufficient to ensure the consistent ambient temperature inside the chamber.



5 High Precision Temperature Sensors

5 high precision temperature sensors are used to accurately monitor the operation state of electronic control under various conditions to ensure that the internal temperature of the chamber is always kept within a stable range.



The status of the refrigerant can be determined throughout the process, ensuring high **RELIABILITY** and **COMFORT**.



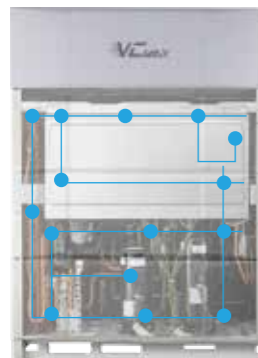
Benefits

- High reliability
- Stable operation
- Enhanced comfort

Up to 17 sensors are distributed throughout the refrigerant system, and the status of the refrigerant can be determined throughout the process, ensuring stable operation. At the same time, combined with the digital twin technology of the refrigerant system, a virtual sensor can be created in the event of a physical sensor failure, so that the system does not shut down in the event of a sensor failure, ensuring comfort.

Complete Sensors

The VC MAS Series VRF is equipped with up to 17 condition monitoring sensors, combined with built-in data models of compressors, heat exchangers and throttling components, which can analyze the operation data in real time and monitor the refrigerant condition of the system.



Refrigerant Amount Diagnosis

Thanks to the complete sensors, the refrigerant running state is clearly visible, so as to accurately diagnose the amount of refrigerant.

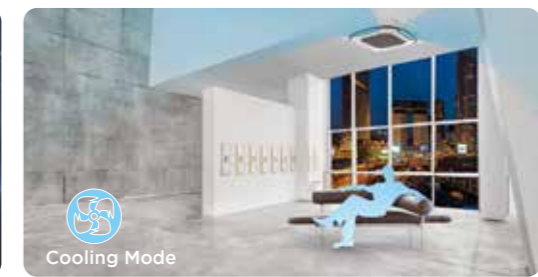


Virtual Sensor Backup

In the event of a sensor failure, other sensors can automatically simulate a virtual backup sensor, so that the VRF system can continue to operate without stopping.



META is the abbreviation of Midea Evaporating Temperature Alteration. Further upgraded META technology to maximize **ENERGY SAVING**.



Benefits

- Energy saving
- Enhanced comfort
- Fast cooling

Built-in professional operation and maintenance algorithm, so that the annual operation energy efficiency of each set of systems is increased by more than 28%.

Variable Refrigerant Flow

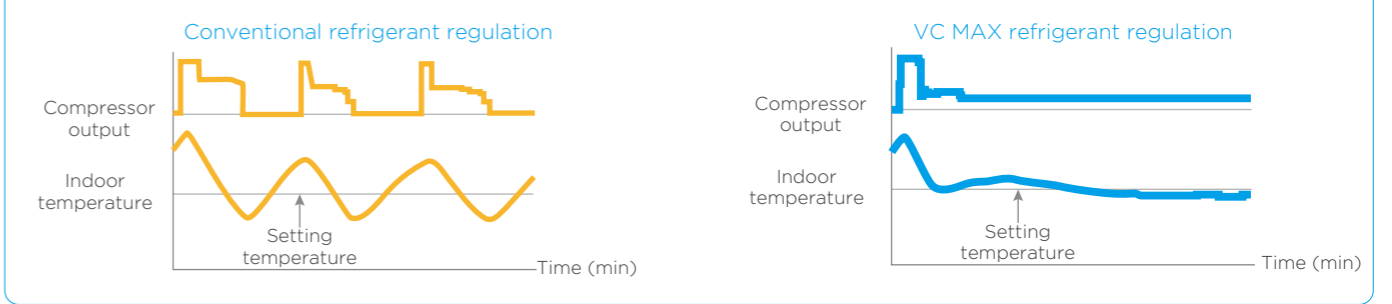
STEP 1: Architectural space feature recognition
The indoor unit automatically recognizes the size of the building space and the effectiveness of the insulation according to the rate of temperature drop.

Variable Refrigerant Temperature

STEP 2: System refrigerant temperature determination
The system automatically matches the evaporating temperature to the room load to maximize comfort and energy efficiency.

Variable Indoor Airflow

STEP 3: Adaptive indoor airflow and refrigerant flow
Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating temperature, enabling precise temperature control.



Zen Air 2.0

Further upgraded ZEN AIR technology to maximize **COMFORT**.



Benefits



Quiet



Enhanced comfort

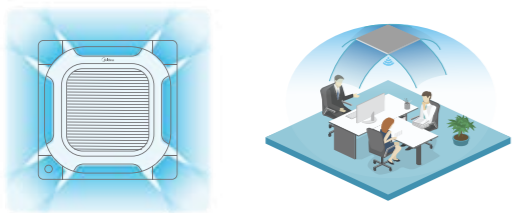


Healthy

0.5°C temperature adjustment, 7 fan speeds selection, sleep mode, silent mode, windless technology, high efficiency filter, a variety of sterilization devices and other advanced technologies used in VC MAX Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

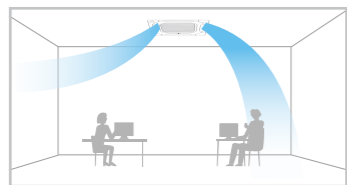
360° Airflow

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



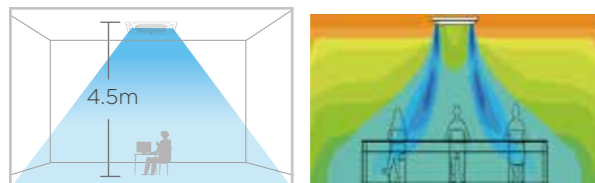
Individual Louver Control

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



Long Distance Air Delivery*

The Four-Way Cassette has an additional 50Pa of static pressure for long airflow delivery and can be used in spaces of up to 4.5m in floor height.



*This function is available as a customization option.

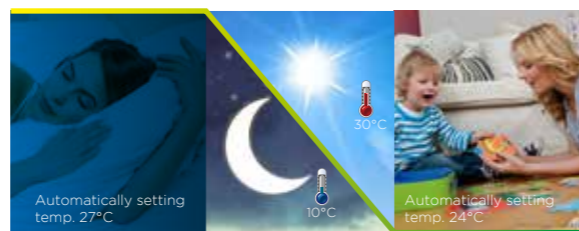
7 Fan Speeds

7 indoor fan speed options to meet the needs of different indoor conditions.



Sleep Mode

The smart sleep mode provides a comfortable sleep period and a refreshing wake up time.




*The above temperatures are for reference only.

Innovative Puro-air Kit

Protectors of health and safety

 From Germany - OSRAM quality UV light source

 Ozone -Free
UV leakage-Free

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



Doctor M 2.0

Further upgraded DOCTOR M technology to maximize **EASY SERVICE**.



Benefits



Easy maintenance



Fast maintenance



Low maintenance cost

Based on a cloud-based platform of big data and artificial intelligence, the VC MAX Series VRF can monitor the operation status of each unit in real time, predict system faults in advance and provide data analysis for system maintenance. The intelligent Bluetooth module and special Bluetooth after-sales kit can further simplify maintenance and improve maintenance efficiency.

Intelligent Maintenance Tool

With the intelligent Bluetooth module or special Bluetooth after-sales kit, the data of the outdoor unit can be directly read and written on your smart phone without connecting a PC or opening the cabinet.



*The Bluetooth module is available as a customization option.

Real-time Monitoring of Operating Parameters

The VC MAX Series VRF synchronizes and stores all the unit parameters to the cloud through the data cloud gateway, including the running status, locking status, dirty blocking rate, all spot inspection parameters and so on. Users can query real-time and historical parameters on computers, tablets and mobile phones at any time.



*The data cloud gateway needs to be purchased separately.

Cloud-based Big Data Analytics

Midea VC MAX Series VRF transmits the system operation data to the cloud in real time through the data cloud gateway, and timely reminds the system of abnormal conditions through big data analysis, helping users to proactively avoid the risk of failure that has not yet occurred and minimize hidden problems.

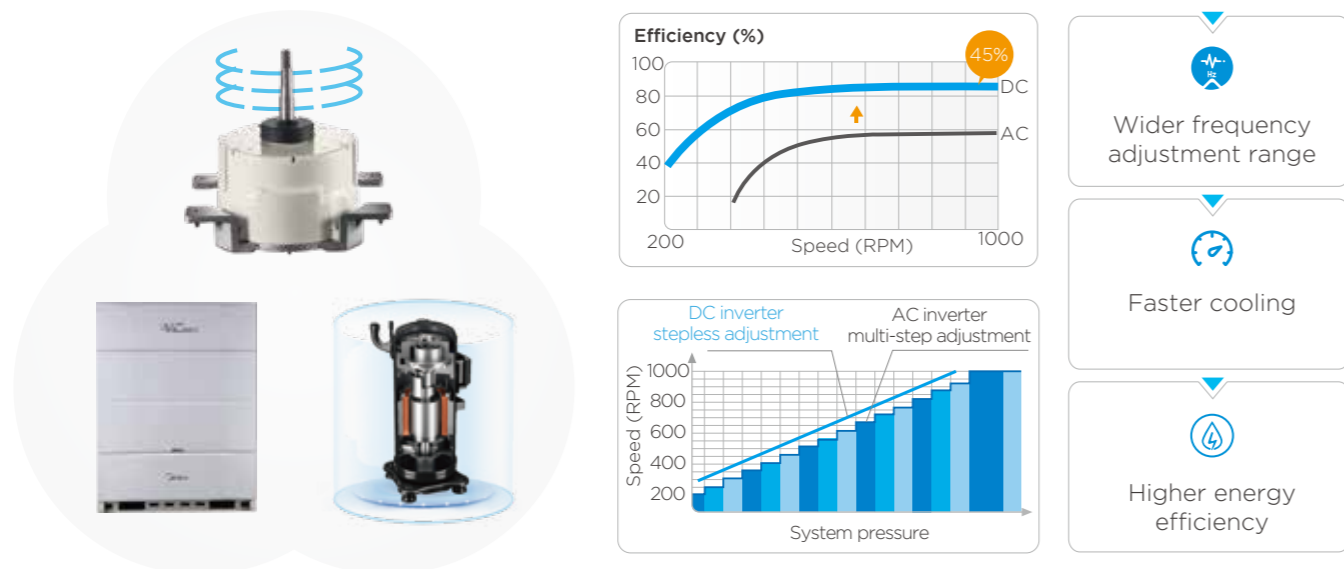


High Efficiency

Full DC Inverter Technology

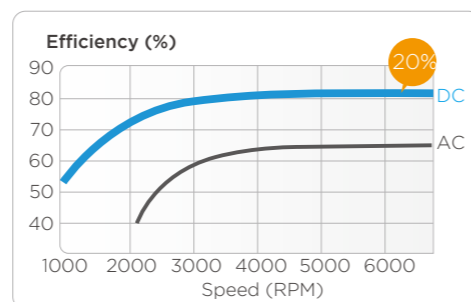
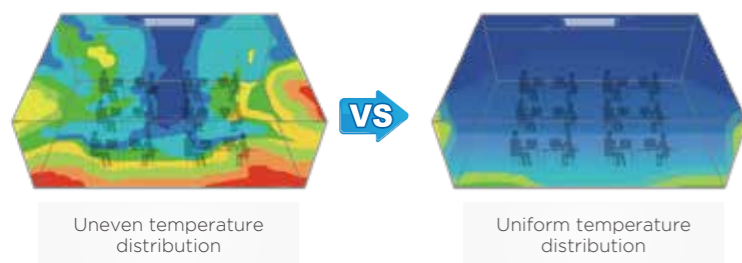
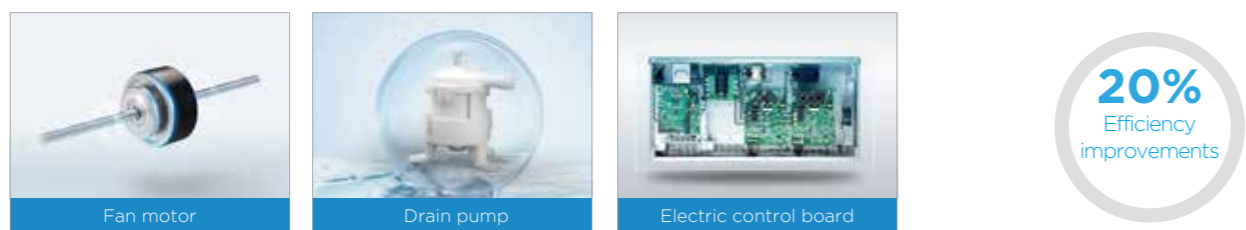
Full DC Inverter for Outdoor Components

The VC MAX Series VRF uses full DC inverter compressor and fan motor to achieve high precision stepless speed adjustment according to system operation, and ensures that the system is always in optimum condition, operating more efficiently, more consistently and with less noise.



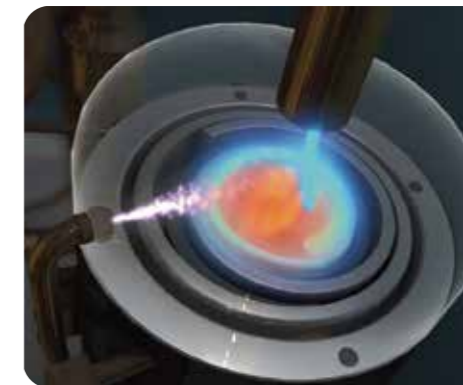
Full DC Inverter for Indoor Components

All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.



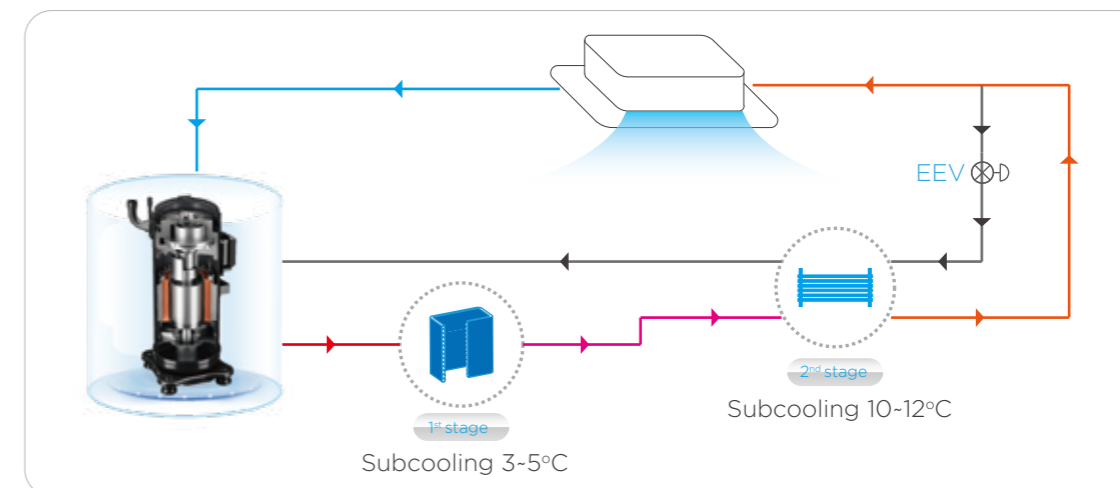
Enhanced Vapor Injection (EVI) Compressor

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



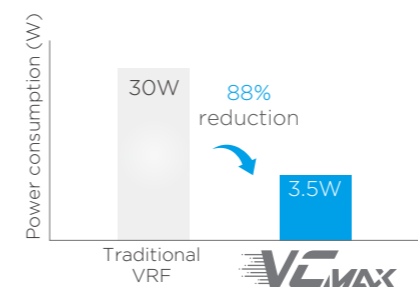
Advanced Subcooling Technology

The VC MAX Series VRF uses a micro-channel heat exchanger to further cool the refrigerant and the refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound of refrigerant flow.



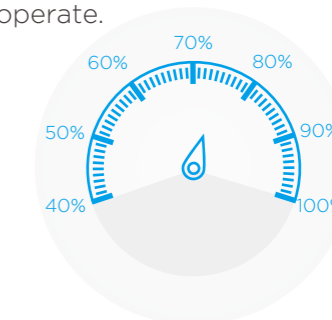
Low Standby Power Consumption

Compared to the standby power consumption of traditional VRF of about 30W, the VC MAX Series VRF uses optimized control scheme to further reduce standby power consumption to as low as 3.5W.



60-step Energy Management

For projects with temporary electricity supply restrictions, the outdoor unit supports 60-step energy management which can be set to output 40-100% capacity in 1% increments. It prevents tripping during conditions of restricted electricity supply and allows the system to continue to operate.



High Reliability

Quadruple Backup

In two fans, two compressors and multiple units, one can run in backup for another. Additionally, the VC MAX series VRF generates a corresponding virtual sensor for each physical sensor by means of a digital algorithm, which serves as a backup for each other, ensuring no shutdown in the event of a fault, and further guaranteeing comfort.

1 Unit Backup

In a multi-unit system, the different units act as a backup to each other, ensuring that the system can continue to operate if one unit fails.



Intelligent load-bearing between units during normal operation

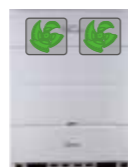


Continue operating in case of failure of one unit

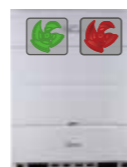
Operation compressor Failed compressor

2 Fan Backup

In unit with two fans, the two fans act as a backup to each other, ensuring that the system can continue to operate if one fan fails.



In normal operation, each fan runs on demand



Automatic backup operation of another fan in case of failure of one fan

Operation fan Failed fan

3 Compressor Backup

In unit with two compressors, the two compressors act as a backup to each other, ensuring that the system can continue to operate if one compressor fails.



Intelligent load-bearing between compressors during normal operation



Continue operating in case of failure of one compressor

4 Sensor Backup

New & Unique

Through digital algorithms, each physical sensor generates a corresponding virtual sensor that acts as a backup to each other, ensuring that the failure of one sensor does not affect the normal operation of the system.

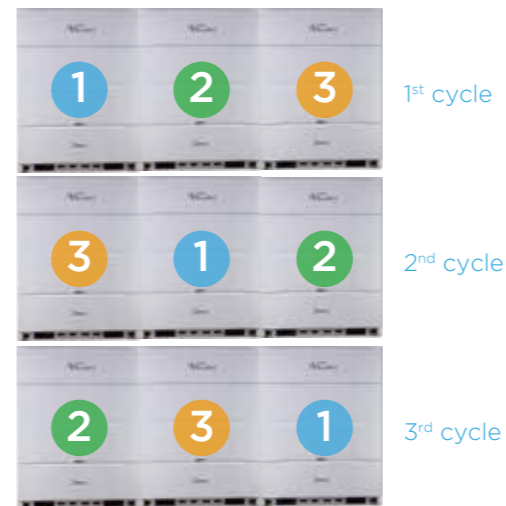


Automatic backup operation of the corresponding virtual sensor in case of failure of one physical sensor

Double Duty Cycling

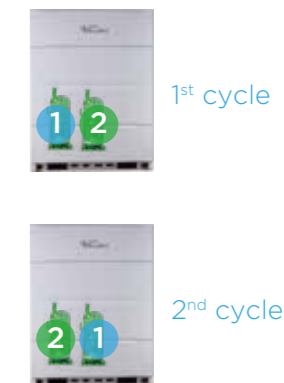
1 Unit Duty Cycling

In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



2 Compressor Duty Cycling

In units with two compressors, duty cycling equalizes the running time of each compressor, significantly extending compressor lifespan.



Compressor start-up sequence

Note: The duty cycling sequence shown in the figure is only a schematic reference. The actual duty cycling sequence is not a fixed sequence. Please refer to the technical manual for specific rotation rules.

ShieldBox

IP55 fully enclosed electric control box provides all-round protection for internal electronic components, greatly improving system reliability.



Anti-corrosion



Dustproof



Rain & snow proof



Insect proof

SuperSense

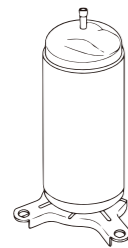
VC MAX Series VRF uses up to 17 sensors for each outdoor unit and 4 sensors for each indoor unit. The operating status of the system refrigerant is clearly visible, which can achieve intelligent analysis of operation parameters, intelligent error diagnosis and forecasting, and visualized energy saving.



Precise Oil Control

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

1



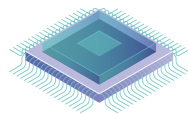
Compressor internal oil separation.

2



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.

3



The automatic oil return program determines the oil return through the running time and the oil discharge amount, enabling precise oil return.

Anti-corrosion Protection

Standard outdoor units are given anti-corrosion treatment for non-extreme conditions 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.



*Heavy anti-corrosion treatment is available as a customization option.

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.

*UL anti-corrosion certificate is available for heavy anti-corrosion treatment units.

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



Auto Dust-clean Function

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





Enhanced Comfort

Wide Application Range

Advanced Silent Technology

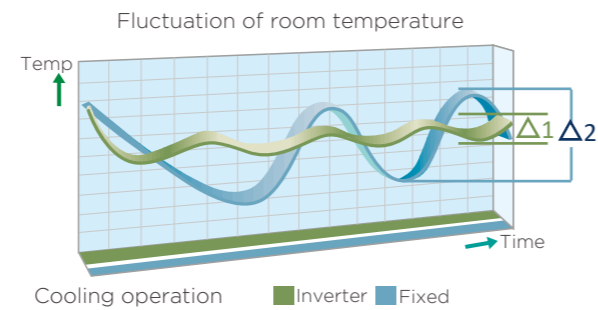
15-step silent mode provide more freedom and convenience to match the customer needs.



15 silent options

Fast Cooling

Thanks to advanced full DC inverter technology, the system can quickly reach full load output, shorten cooling time, reduce temperature fluctuations, and create a more comfortable living environment.



Wide Capacity Range

The capacity of one VC MAX Series VRF system is from 8HP to 90HP with up to 3 units combined, perfectly suited for small to large buildings.



Wide Operation Range

Thanks to the refrigerant cooling technology, the VC MAX Series VRF can operate stably in a temperature range as low as -15°C and as high as 55°C.



Wide Range of Indoor Units

The VC MAX Series VRF offers 12 types of over 100 models of indoor units to meet different scenarios of applications such as offices, shopping malls, hotels, airports, schools, hospitals, etc.

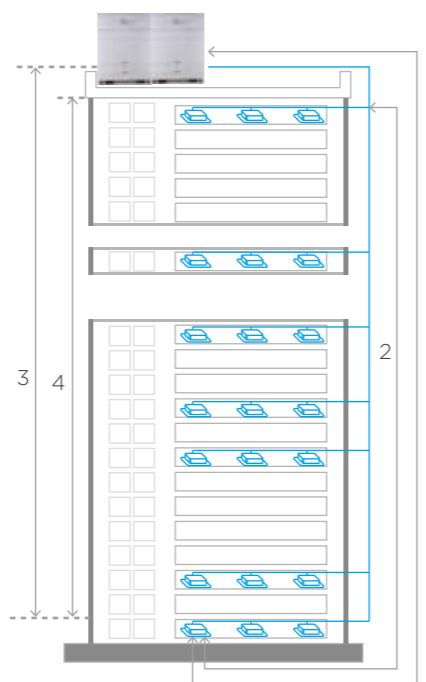


Long Piping Capability

The VC MAX system can support a total piping length of up to 1100m, an installation height difference of up to 110m between indoor and outdoor units, and up to 40m between indoor units, making the VC MAX Series VRF adaptable to a wide range of building designs.

- Total piping length: **1100m**
- 1 Longest piping length - actual (equivalent): **220(260)m**
- 2 Longest piping length after first branch: **40/120*m**
- 3 Level difference between IDUs and ODU - ODU above (below): **110(110)m**
- 4 Level difference between IDUs: **40m**

*The longest length after first branch is 40m as a standard but can be extended to up to 120m under certain conditions. Please contact your local dealer for further information.



Easy Installation and Service

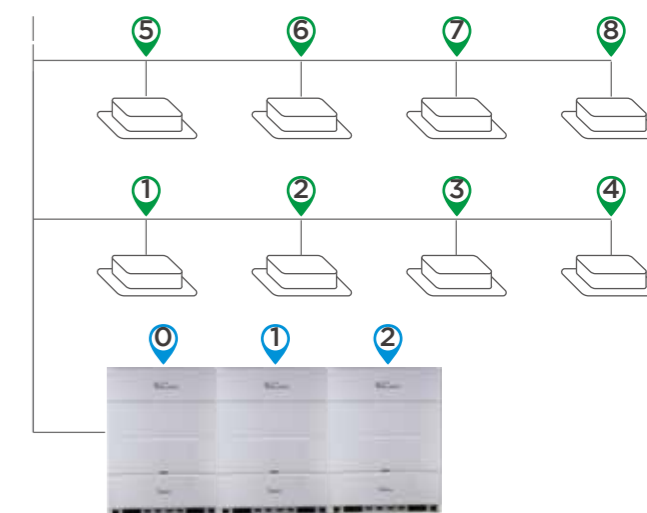
Free Wiring

HyperLink communication technology supports any wiring pattern rather than just daisy chain connection, reducing the installation cost and the possibility of incorrect connection. It has stronger anti-interference ability, achieving a communication distance of up to 2000m.



Auto Addressing

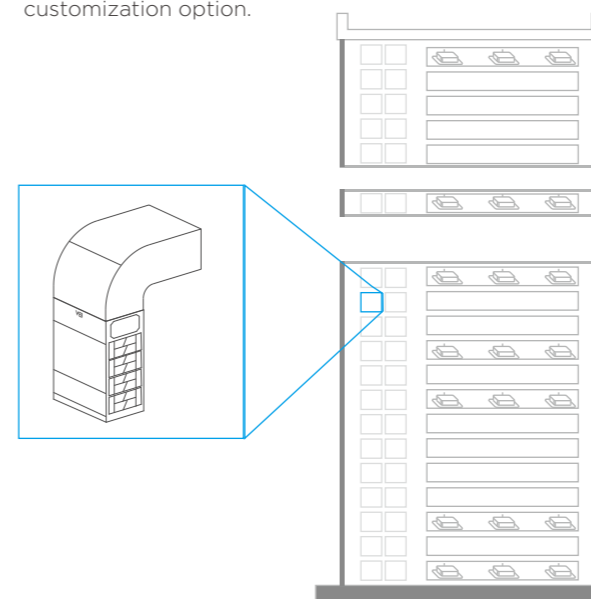
Addresses for all indoor units and combined outdoor units can be assigned automatically by the VC MAX system, further simplifying installation.



External Static Pressure up to 120Pa*

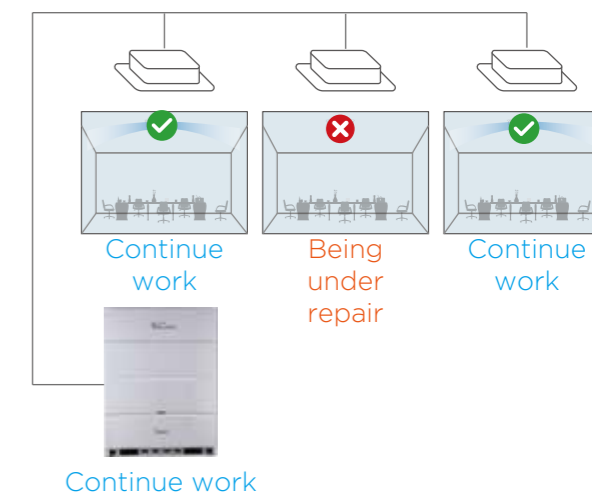
The static pressure of the outdoor unit can be up to 120Pa which facilitates installation of the unit on each floor of high-rise buildings or on balconies.

*External static pressure above 20Pa is available as a customization option.



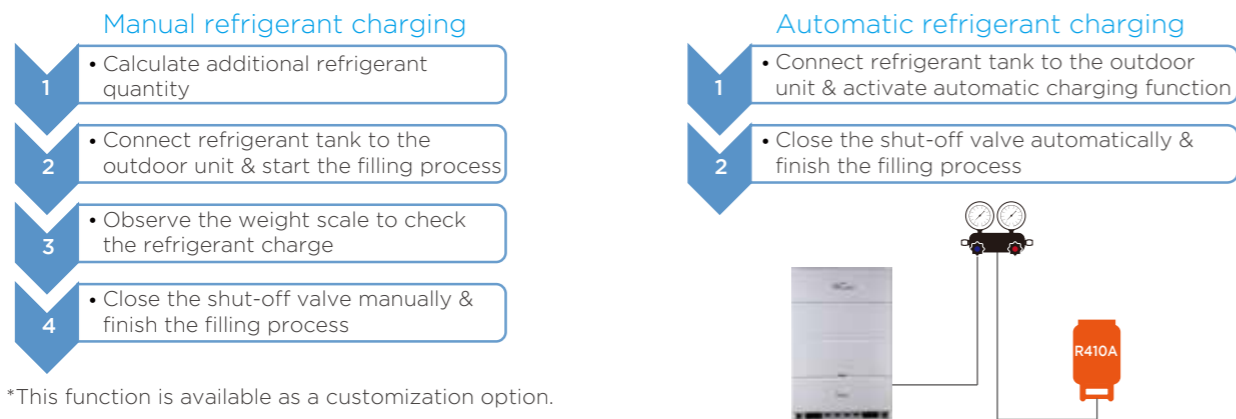
Maintenance Mode

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



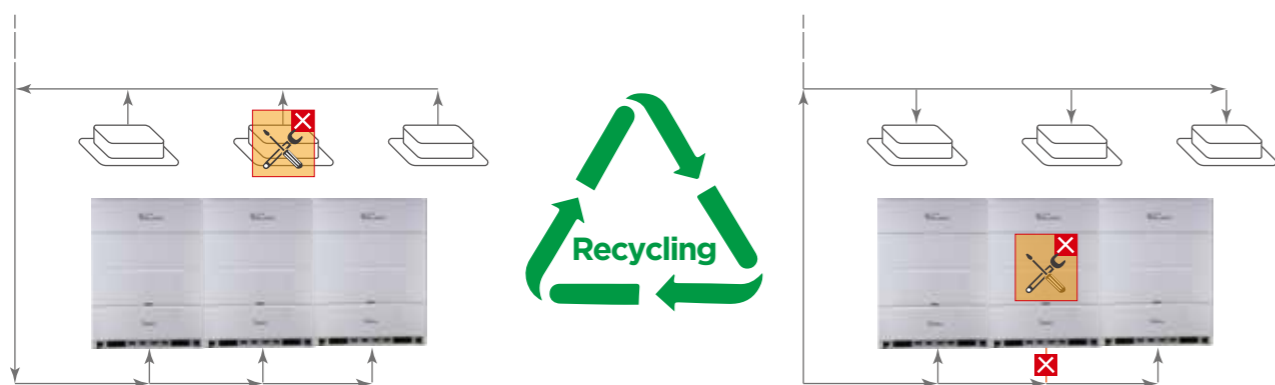
Automatic Refrigerant Charging*

Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.



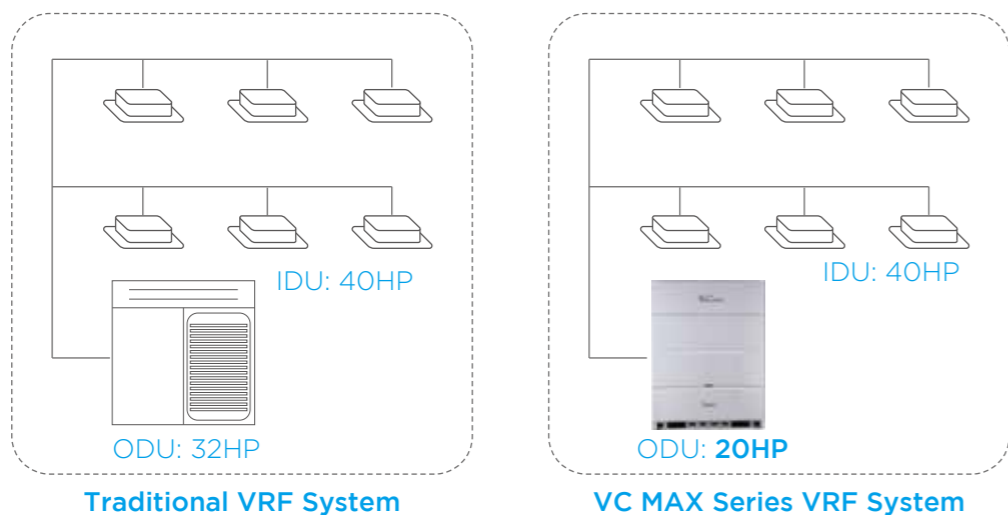
Automatic Refrigerant Recycling

When an indoor unit fails, the refrigerant can be recycled into the outdoor units. When part of the outdoor unit fails, the refrigerant can be recycled into the indoor units and the normal outdoor unit. Two types of refrigerant recycling make the maintenance process easier and more efficient.



Wide Combination Ratio*

Compared to traditional VRF with combination ratio of 50-130%, the VC MAX Series VRF can be extended to 50-200%, and the wider combination ratio allows for more flexible system configuration. The larger combination ratio can be applied to long-term part-load operation scenarios, allowing for further reduction in installation costs.



*Combination ratio over 130% is available as a customization option.

Easy Software Program Upgrade

In addition to upgrading the program of outdoor and indoor units through USB and burner, the new product can also remotely upgrade all the programs of indoor and outdoor units through the data cloud gateway, making system upgrades very convenient and ensuring that the system program is always up to date.

*The data cloud gateway needs to be purchased separately.

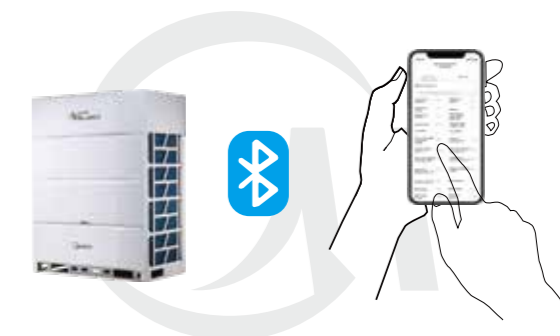


Smart Commissioning/Maintenance Tool

With the newly developed smart tool (Bluetooth module and special Bluetooth after-sales kit), system settings, operating parameter queries, trial runs and programme upgrades are all possible without opening the cabinet.

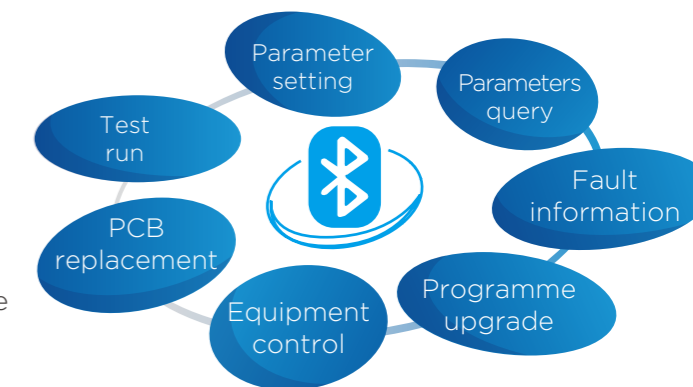
Useful in the following situations:

- Installation
- Service maintenance



Main functions:

- Fault information storage
- Operating parameters query
- Start commissioning test run
- System parameter setting
- Quick after-sales PCB replacement
- Equipment control
- Indoor and outdoor units programme upgrade



Specifications

VC MAX Series VRF

HP		8		10		12		
Model name		MVC-M224WV2GNI		MVC-M280WV2GNI		MVC-M335WV2GNI		
Power supply		V/N/Hz	380-415/3/50(60)		380-415/3/50(60)		380-415/3/50(60)	
Cooling ¹	Capacity	kW	22.4		28		33.5	
		kBtu/h	76.4		95.5		114.2	
	Power input	kW	4.8		6.8		8.8	
	EER		4.65		4.14		3.81	
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity	
	Maximum quantity		13		16		19	
Compressor	Type		Scroll DC inverter		Scroll DC inverter		Scroll DC inverter	
	Quantity		1		1		1	
Fan	Type		DC		DC		DC	
	Quantity		1		1		1	
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	12600		12600		13500	
Refrigerant	Type		R410A		R410A		R410A	
	Factory charge	kg	7.4		7.4		7.4	
Pipe connections ²	Liquid pipe	mm	Φ12.7		Φ12.7		Φ12.7	
	Gas pipe	mm	Φ25.4		Φ25.4		Φ25.4	
Sound pressure level ³		dB(A)	57		58		60	
Net dimensions (W×H×D)		mm	940×1760×825		940×1760×825		940×1760×825	
Packed dimensions (W×H×D)		mm	1010×1945×890		1010×1945×890		1010×1945×890	
Net weight		kg	185		185		185	
Gross weight		kg	200		200		200	
Ambient temp. operation range (Cooling)		°C	-15 to 55		-15 to 55		-15 to 55	

HP		14		16		18		
Model name		MVC-M400WV2GNI		MVC-M450WV2GNI		MVC-M500WV2GNI		
Power supply		V/N/Hz	380-415/3/50(60)		380-415/3/50(60)		380-415/3/50(60)	
Cooling ¹	Capacity	kW	40		45		50	
		kBtu/h	136.4		153.5		170.5	
	Power input	kW	9.7		12.3		13.4	
	EER		4.12		3.67		3.74	
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity	
	Maximum quantity		23		26		29	
Compressor	Type		Scroll DC inverter		Scroll DC inverter		Scroll DC inverter	
	Quantity		1		1		1	
Fan	Type		DC		DC		DC	
	Quantity		1		1		1	
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	15600		15600		16500	
Refrigerant	Type		R410A		R410A		R410A	
	Factory charge	kg	8.4		8.4		10	
Pipe connections ²	Liquid pipe	mm	Φ15.9		Φ15.9		Φ15.9	
	Gas pipe	mm	Φ28.6		Φ28.6		Φ28.6	
Sound pressure level ³		dB(A)	60		61		62	
Net dimensions (W×H×D)		mm	940×1760×825		940×1760×825		940×1760×825	
Packed dimensions (W×H×D)		mm	1010×1945×890		1010×1945×890		1010×1945×890	
Net weight		kg	200		200		212	
Gross weight		kg	215		215		232	
Ambient temp. operation range (Cooling)		°C	-15 to 55		-15 to 55		-15 to 55	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's 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.

Specifications

VC MAX Series VRF

HP		20		22		24		
Model name		MVC-M560WV2GNI		MVC-M615WV2GNI		MVC-M670WV2GNI		
Power supply		V/N/Hz	380-415/3/50(60)		380-415/3/50(60)		380-415/3/50(60)	
Cooling ¹	Capacity	kW	56		61.5		67	
		kBtu/h	191.0		209.7		228.5	
	Power input	kW	17.4		17.3		19.0	
	EER		3.21		3.55		3.52	
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity	
	Maximum quantity		33		36		39	
Compressor	Type		Scroll DC inverter		Scroll DC inverter		Scroll DC inverter	
	Quantity		1		1		1	
Fan	Type		DC		DC		DC	
	Quantity		1		2		2	
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	16500		21500		21500	
Refrigerant	Type		R410A		R410A		R410A	
	Factory charge	kg	10		12.8		12.8	
Pipe connections ²	Liquid pipe	mm	Φ15.9		Φ19.1		Φ19.1	
	Gas pipe	mm	Φ28.6		Φ31.8		Φ31.8	
Sound pressure level ³		dB(A)	63		63		64	
Net dimensions (W×H×D)		mm	940×1760×825		1340×1760×825		1340×1760×825	
Packed dimensions (W×H×D)		mm	1010×1945×890		1410×1945×890		1410×1945×890	
Net weight		kg	225		260		260	
Gross weight		kg	245		285		285	
Ambient temp. operation range (Cooling)		°C	-15 to 55		-15 to 55		-15 to 55	

HP		26		28		30		
Model name		MVC-M730WV2GNI		MVC-M785WV2GNI		MVC-M850WV2GNI		
Power supply		V/N/Hz	380-415/3/50(60)		380-415/3/50(60)		380-415/3/50(60)	
Cooling ¹	Capacity	kW	73		78.5		85	
		kBtu/h	248.9		267.7		289.9	
	Power input	kW	19.4		22.3		26.4	
	EER		3.76		3.52		3.22	
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity	
	Maximum quantity		43		46		50	
Compressor	Type		Scroll DC inverter		Scroll DC inverter		Scroll DC inverter	
	Quantity		2		2		2	
Fan	Type		DC		DC		DC	
	Quantity		2		2		2	
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	22000		22000		22000	
Refrigerant	Type		R410A		R410A		R410A	
	Factory charge	kg	15.4		15.4		15.4	
Pipe connections ²	Liquid pipe	mm	Φ22.2		Φ22.2		Φ22.2	
	Gas pipe	mm	Φ31.8		Φ31.8		Φ31.8	
Sound pressure level ³		dB(A)	64		64		64	
Net dimensions (W×H×D)		mm	1340×1760×825		1340×1760×825		1340×1760×825	
Packed dimensions (W×H×D)		mm	1410×1945×890		1410×1945×890		1410×1945×890	
Net weight		kg	325		325		325	
Gross weight		kg	350		350		350	
Ambient temp. operation range (Cooling)		°C	-15 to 55		-15 to 55		-15 to 55	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's 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.

Specifications

VC MAX Series VRF

HP	32		34		36	
Model name (Combination unit)	MVC-M900WV2GN1		MVC-M960WV2GN1		MVC-M1010WV2GN1	
Combination type	16HP+16HP		14HP+20HP		16HP+20HP	
Power supply	V/N/Hz	380-415/3/50(60)	380-415/3/50(60)		380-415/3/50(60)	
Cooling ¹	Capacity	kW	90.0	96.0	101.0	
		kBtu/h	307.0	327.4	344.5	
	Power input	kW	24.6	27.1	29.7	
	EER		3.66	3.54	3.40	
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity		50-130% of outdoor unit capacity		
	Maximum quantity	53		59		
Compressor	Type	Scroll DC inverter		Scroll DC inverter		
	Quantity	2		2		
Fan	Type	DC		DC		
	Quantity	2		2		
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	31200		32100	
Refrigerant	Type	R410A		R410A		
	Factory charge	kg	8.4×2		8.4+10	
Pipe connections ²	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ31.8		Φ38.1	
Sound pressure level ³	dB(A)	64		65		
Net dimensions (W×H×D)	mm	(940×1760×825)×2		(940×1760×825)×2		
Packed dimensions (W×H×D)	mm	(1010×1945×890)×2		(1010×1945×890)×2		
Net weight	kg	200×2		200+225		
Gross weight	kg	215×2		215+245		
Ambient temp. operation range (Cooling)	°C	-15 to 55		-15 to 55		

HP	38		40		42	
Model name (Combination unit)	MVC-M1060WV2GN1		MVC-M1120WV2GN1		MVC-M1170WV2GN1	
Combination type	18HP+20HP		16HP+24HP		18HP+24HP	
Power supply	V/N/Hz	380-415/3/50(60)	380-415/3/50(60)		380-415/3/50(60)	
Cooling ¹	Capacity	kW	106.0	112.0	117.0	
		kBtu/h	361.5	382.0	399.0	
	Power input	kW	30.8	31.3	32.4	
	EER		3.44	3.58	3.61	
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity		50-130% of outdoor unit capacity		
	Maximum quantity	62		64		
Compressor	Type	Scroll DC inverter		Scroll DC inverter		
	Quantity	2		2		
Fan	Type	DC		DC		
	Quantity	2		3		
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	33000		37100	
Refrigerant	Type	R410A		R410A		
	Factory charge	kg	10×2		8.4+12.8	
Pipe connections ²	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ38.1		Φ38.1	
Sound pressure level ³	dB(A)	66		66		
Net dimensions (W×H×D)	mm	(940×1760×825)×2		(940×1760×825)+(1340×1760×825)		
Packed dimensions (W×H×D)	mm	(1010×1945×890)×2		(1010×1945×890)+(1410×1945×890)		
Net weight	kg	212+225		200+260		
Gross weight	kg	232+245		215+285		
Ambient temp. operation range (Cooling)	°C	-15 to 55		-15 to 55		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the 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.

Specifications

VC MAX Series VRF

HP	44		46		48	
Model name (Combination unit)	MVC-M1230WV2GN1		MVC-M1300WV2GN1		MVC-M1350WV2GN1	
Combination type	20HP+24HP		16HP+30HP		18HP+30HP	
Power supply	V/N/Hz	380-415/3/50(60)	380-415/3/50(60)		380-415/3/50(60)	
Cooling ¹	Capacity	kW	123.0	130.0	135.0	
		kBtu/h	419.5	443.4	460.4	
	Power input	kW	36.4	38.7	39.8	
	EER		3.38	3.36	3.39	
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity		50-130% of outdoor unit capacity		
	Maximum quantity	64		64		
Compressor	Type	Scroll DC inverter		Scroll DC inverter		
	Quantity	2		3		
Fan	Type	DC		DC		
	Quantity	3		3		
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	38000		37600	
Refrigerant	Type	R410A		R410A		
	Factory charge	kg	10+12.8		8.4+15.4	
Pipe connections ²	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ38.1		Φ38.1	
Sound pressure level ³	dB(A)	67		66		
Net dimensions (W×H×D)	mm	(940×1760×825)+(1340×1760×825)		(940×1760×825)+(1340×1760×825)		
Packed dimensions (W×H×D)	mm	(1010×1945×890)+(1410×1945×890)		(1010×1945×890)+(1410×1945×890)		
Net weight	kg	225+260		200+325		
Gross weight	kg	245+285		215+350		
Ambient temp. operation range (Cooling)	°C	-15 to 55		-15 to 55		

HP	50		52		54	
Model name (Combination unit)	MVC-M1410WV2GN1		MVC-M1465WV2GN1		MVC-M1520WV2GN1	
Combination type	20HP+30HP		22HP+30HP		24HP+30HP	
Power supply	V/N/Hz	380-415/3/50(60)	380-415/3/50(60)		380-415/3/50(60)	
Cooling ¹	Capacity	kW	141.0	146.5	152.0	
		kBtu/h	480.9	499.6	518.4	
	Power input	kW	43.8	43.7	45.4	
	EER		3.22	3.35	3.35	
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity		50-130% of outdoor unit capacity		
	Maximum quantity	64		64		
Compressor	Type	Scroll DC inverter		Scroll DC inverter		
	Quantity	3		3		
Fan	Type	DC		DC		
	Quantity	3		4		
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	38500		43500	
Refrigerant	Type	R410A		R410A		
	Factory charge	kg	10+15.4		12.8+15.4	
Pipe connections ²	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ38.1		Φ38.1	
Sound pressure level ³	dB(A)	67		67		
Net dimensions (W×H×D)	mm	(940×1760×825)+(1340×1760×825)		(1340×1760×825)×2		
Packed dimensions (W×H×D)	mm	(1010×1945×890)+(1410×1945×890)		(1410×1945×890)×2		
Net weight	kg	225+325		260+325		
Gross weight	kg	245+350		285+350		
Ambient temp. operation range (Cooling)	°C	-15 to 55		-15 to 55		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the 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.

Specifications

VC MAX Series VRF

HP	56		58		60	
Model name (Combination unit)	MVC-M1580WV2GN1		MVC-M1635WV2GN1		MVC-M1700WV2GN1	
Combination type	26HP+30HP		28HP+30HP		30HP+30HP	
Power supply	V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	158.0	163.5	170.0	
		kBtu/h	538.8	557.6	579.8	
	Power input	kW	45.8	48.7	52.8	
	EER		3.45	3.36	3.22	
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity	
	Maximum quantity		64		64	
Compressor	Type		Scroll DC inverter		Scroll DC inverter	
	Quantity		4		4	
Fan	Type		DC		DC	
	Quantity		4		4	
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	44000		44000	
Refrigerant	Type		R410A		R410A	
	Factory charge	kg	15.4×2		15.4×2	
Pipe connections ²	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ41.3		Φ41.3	
Sound pressure level ³	dB(A)		67		67	
Net dimensions (W×H×D)	mm		(1340×1760×825)×2		(1340×1760×825)×2	
Packed dimensions (W×H×D)	mm		(1410×1945×890)×2		(1410×1945×890)×2	
Net weight	kg		325×2		325×2	
Gross weight	kg		350×2		350×2	
Ambient temp. operation range (Cooling)	°C		-15 to 55		-15 to 55	

HP	62		64		66	
Model name (Combination unit)	MVC-M1750WV2GN1		MVC-M1810WV2GN1		MVC-M1860WV2GN1	
Combination type	16HP+16HP+30HP		14HP+20HP+30HP		16HP+20HP+30HP	
Power supply	V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	175.0	181.0	186.0	
		kBtu/h	596.9	617.3	634.4	
	Power input	kW	51.0	53.5	56.1	
	EER		3.43	3.38	3.32	
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity	
	Maximum quantity		64		64	
Compressor	Type		Scroll DC inverter		Scroll DC inverter	
	Quantity		4		4	
Fan	Type		DC		DC	
	Quantity		4		4	
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	53200		54100	
Refrigerant	Type		R410A		R410A	
	Factory charge	kg	8.4×2+15.4		8.4+10+15.4	
Pipe connections ²	Liquid pipe	mm	Φ19.1		Φ19.1	
	Gas pipe	mm	Φ41.3		Φ41.3	
Sound pressure level ³	dB(A)		67		68	
Net dimensions (W×H×D)	mm		(940×1760×825)×2+(1340×1760×825)		(940×1760×825)×2+(1340×1760×825)	
Packed dimensions (W×H×D)	mm		(1010×1945×890)×2+(1410×1945×890)		(1010×1945×890)×2+(1410×1945×890)	
Net weight	kg		200×2+325		200+225+325	
Gross weight	kg		215×2+350		215+245+350	
Ambient temp. operation range (Cooling)	°C		-15 to 55		-15 to 55	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the 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.

Specifications

VC MAX Series VRF

HP	68		70		72	
Model name (Combination unit)	MVC-M1910WV2GN1		MVC-M1970WV2GN1		MVC-M2020WV2GN1	
Combination type	18HP+20HP+30HP		16HP+24HP+30HP		18HP+24HP+30HP	
Power supply	V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	191.0	197.0	202.0	
		kBtu/h	651.4	671.9	688.9	
	Power input	kW	57.2	57.7	58.8	
	EER		3.34	3.41	3.44	
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity	
	Maximum quantity		64		64	
Compressor	Type		Scroll DC inverter		Scroll DC inverter	
	Quantity		4		4	
Fan	Type		DC		DC	
	Quantity		4		5	
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	55000		59100	
Refrigerant	Type		R410A		R410A	
	Factory charge	kg	10×2+15.4		8.4+12.8+15.4	
Pipe connections ²	Liquid pipe	mm	Φ22.2		Φ22.2	
	Gas pipe	mm	Φ44.5		Φ44.5	
Sound pressure level ³	dB(A)		68		68	
Net dimensions (W×H×D)	mm		(940×1760×825)×2+(1340×1760×825)		(940×1760×825)×2+(1340×1760×825)×2	
Packed dimensions (W×H×D)	mm		(1010×1945×890)×2+(1410×1945×890)		(1010×1945×890)×2+(1410×1945×890)×2	
Net weight	kg		212+225+325		200+260+325	
Gross weight	kg		232+245+350		215+285+350	
Ambient temp. operation range (Cooling)	°C		-15 to 55		-15 to 55	

HP	74		76		78	
Model name (Combination unit)	MVC-M2080WV2GN1		MVC-M2150WV2GN1		MVC-M2200WV2GN1	
Combination type	20HP+24HP+30HP		16HP+30HP+30HP		18HP+30HP+30HP	
Power supply	V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	208.0	215.0	220.0	
		kBtu/h	709.4	733.3	750.3	
	Power input	kW	62.8	65.1	66.2	
	EER		3.31	3.30	3.32	
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		50-130% of outdoor unit capacity	
	Maximum quantity		64		64	
Compressor	Type		Scroll DC inverter		Scroll DC inverter	
	Quantity		4		5	
Fan	Type		DC		DC	
	Quantity		5		5	
	Static pressure	Pa	0-20 (default); 20-120 (customized)		0-20 (default); 20-120 (customized)	
	Airflow rate	m ³ /h	60000		59600	
Refrigerant	Type		R410A		R410A	
	Factory charge	kg	10+12.8+15.4		8.4+15.4×2	
Pipe connections ²	Liquid pipe	mm	Φ22.2		Φ22.2	
	Gas pipe	mm	Φ44.5		Φ44.5	
Sound pressure level ³	dB(A)		69		68	
Net dimensions (W×H×D)	mm		(940×1760×825)×2+(1340×1760×825)×2		(940×1760×825)×2+(1340×1760×825)×2	
Packed dimensions (W×H×D)	mm		(1010×1945×890)×2+(1410×1945×890)×2		(1010×1945×890)×2+(1410×1945×890)×2	
Net weight	kg		225+260+325		200+325×2	
Gross weight	kg		245+285+350		215+350×2	
Ambient temp. operation range (Cooling)	°C		-15 to 55		-15 to 55	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the 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.

Specifications

VC MAX Series VRF

HP		80		82		84	
Model name (Combination unit)		MVC-M2260WV2GN1		MVC-M2315WV2GN1		MVC-M2370WV2GN1	
Combination type		20HP+30HP+30HP		22HP+30HP+30HP		24HP+30HP+30HP	
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)		
Cooling ¹	Capacity	kW	226.0	231.5	237.0		
		kBtu/h	770.8	789.5	808.3		
	Power input	kW	70.2	70.1	71.8		
	EER		3.22	3.30	3.30		
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64		
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter		
	Quantity		5	5	5		
Fan	Type		DC	DC	DC		
	Quantity		5	6	6		
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)		
	Airflow rate	m ³ /h	60500	65500	65500		
Refrigerant	Type		R410A	R410A	R410A		
	Factory charge	kg	10+15.4×2	12.8+15.4×2	12.8+15.4×2		
Pipe connections ²	Liquid pipe	mm	Φ22.2	Φ22.2	Φ25.4		
	Gas pipe	mm	Φ44.5	Φ44.5	Φ50.8		
Sound pressure level ³		dB(A)	69	69	69		
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)×2	(1340×1760×825)×3	(1340×1760×825)×3		
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)×2	(1410×1945×890)×3	(1410×1945×890)×3		
Net weight		kg	225+325×2	260+325×2	260+325×2		
Gross weight		kg	245+350×2	285+350×2	285+350×2		
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the 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.

HP		86		88		90	
Model name (Combination unit)		MVC-M2430WV2GN1		MVC-M2485WV2GN1		MVC-M2550WV2GN1	
Combination type		26HP+30HP+30HP		28HP+30HP+30HP		30HP+30HP+30HP	
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)		
Cooling ¹	Capacity	kW	243.0	248.5	255.0		
		kBtu/h	828.7	847.5	869.7		
	Power input	kW	72.2	75.1	79.2		
	EER		3.37	3.31	3.22		
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64		
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter		
	Quantity		6	6	6		
Fan	Type		DC	DC	DC		
	Quantity		6	6	6		
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)		
	Airflow rate	m ³ /h	66000	66000	66000		
Refrigerant	Type		R410A	R410A	R410A		
	Factory charge	kg	15.4×3	15.4×3	15.4×3		
Pipe connections ²	Liquid pipe	mm	Φ25.4	Φ25.4	Φ25.4		
	Gas pipe	mm	Φ50.8	Φ50.8	Φ50.8		
Sound pressure level ³		dB(A)	69	69	69		
Net dimensions (W×H×D)		mm	(1340×1760×825)×3	(1340×1760×825)×3	(1340×1760×825)×3		
Packed dimensions (W×H×D)		mm	(1410×1945×890)×3	(1410×1945×890)×3	(1410×1945×890)×3		
Net weight		kg	325×3	325×3	325×3		
Gross weight		kg	350×3	350×3	350×3		
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the 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.