DISCOVER
easyCOMFORT

Midea Group
Midea Building Technologies Division

C-VCMAX202510

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Midea reserves the right to change the specifications of the product, and to withdraw or replace products without prior notification or public announcement. Midea is constantly developing and improving its products.

Quality Assurance ISO 9001
Environmental Management ISO 14001
Occupational Health and Safety Management ISO 45001

Midea

VC Max VRF

DISCOVER
RELIABLE COMFORT

2026

MBT

Midea Building Technologies (MBT) is a key division of the Midea Group, a leading provider of comprehensive, intelligent-building solutions including energy sources, elevators, control systems and heating, ventilation and air conditioning.

Built on a foundation of innovation, Midea has emerged as a global leader in the HVAC and building management industry. Our unwavering dedication to research and development coupled with an extensive network of global partners has given birth to cutting-edge technologies that provide innovative solutions to our customers around the world.

Committed to providing users with intelligent, digital, low carbon overall building solution

Midea Building Tech.

- HVAC
- Elevator
- Building Intelligence
- Energy Management

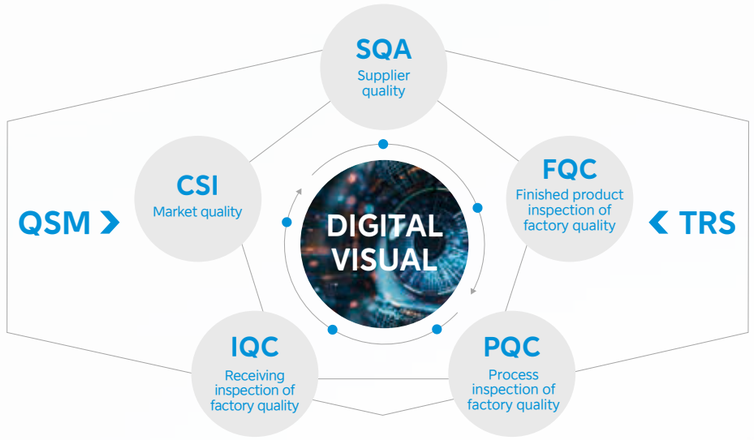
4 global manufacturing locations assure timely delivery with less sensitivity to supply chain interruption.



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



All products can be visualized and digitalized throughout entire process.





MIDEA VRF HISTORY



1999

- Cooperated with Toshiba to develop inverter technologies



V3

2005

- Launched **V3** Series VRF
- AC inverter + fixed compressor
- Attained 16HP single-unit capacity



V4

2008-2014

- Launched **V4,D4** Series VRF product line with heat pump, heat recovery series and water-cooled series
- Attained 16HP single-unit capacity



V5X

2014

- Launched **V5X** Series VRF product line
- Full DC inverter technology
- Attained 22HP single-unit capacity



VC Pro

2017-2020

- Launched **V6** Heat Pump series VRF, **VC Pro** cooling-only series VRF and **V6R** heat-recovery series VRF
- Full DC inverter technology
- Attained 30HP single-unit capacity



VC Max

2022-2023

- Launching the 8th generation **V8** Series VRF, VC Max cooling-only series VRF
- Full DC inverter technology
- Attained 30HP single-unit capacity

BENEFITS OF MIDEA VRF



For End-users

Improved IAQ
Cost-efficient Operation
Enhanced Indoor Comfort

For Building Owners

Energy-management Solutions
Reliable Operation
Backup Solution





For Consultants

Diversified Solutions
Professional Tools and Support
Design Flexibility

For Construction Companies

Green Solutions
Space-Saving Designs
Intelligent Management Systems



APPLICATION SOLUTIONS

Office Complexes

Enjoy comfort while working

Midea VRF provides indoor comfort solutions for office buildings of all sizes with smart control solutions that streamline the management of your VRF system. We offer a wide variety of indoor units that suit any design.



Hotels & Shopping Malls

Increase your business, not your bills

Midea VRF systems are renowned for efficient and reliable operation making them ideal for commercial applications. Intelligent control solutions include hotel key cards and touch screen controllers, making system management that much easier.





Residential Apartments

One for every home

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



Hospitals & Schools & Airports

Meeting all expectations

Innovative designs combined with a diverse variety of indoor unit options make Midea VRF an ideal choice for a wide variety of applications.

ALL DIGITALIZED SERVICE

Design Service

BIM Building Information Import

- VRF Units Layout
- VRF System Calculation
- VRF Electrical Control Diagram
- VRF System Material List



Building Energy Estimation

- Building Load Summary
- Building System Energy
- Building System Computation
- Building Cost Report



HVACSSP Online VRF System Design

- VRF Indoor Units Selection
- VRF Outdoor Units Selection
- VRF Controller Selection
- VRF Report



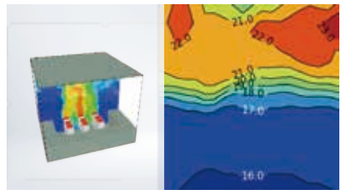
Installation Service



Automatic refrigerant charging



Automatic commissioning reporting



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

Our International Service Management (ICS) system provides customers with professional technical support. Through ICS, you can download product information/documentation, get help with technical questions and troubleshooting, submit complaints and order parts using our self-service interface.

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 and other assets.

Technical inquiry & FAQ

Ask technical questions online and receive a prompt response from our technicians or browse the FAQ for answers to commonly asked questions.

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

The Mobile Intelligence Service App (MISA) is the mobile version of ICS and features the same functionality. MISA often makes getting technical support timelier and more convenient.

https://link.midea.com



Download

Scan to download the mobile app

Feedback

Thank you for your attention and feedback

MBT ACADEMY

MBT Academy is a platform of expertise empowering global sales and technology elites.
It offers professional training courses and activities in order to help you deepen your understanding of MBT products.

Design Specific Training for Different Groups

The training covers a full range of products including VRF, chillers, heat pumps, unitary products and so on

Grow into a technical sales role
Improve performance with expertise

For sales personnel

- Selling points
- Principle & Functions
- Applications & Solutions
- Installation & Commissioning
- Maintenance & Troubleshooting

For technical personnel

Ensure smooth delivery & operation
Enhance customer satisfaction

Global Training Center

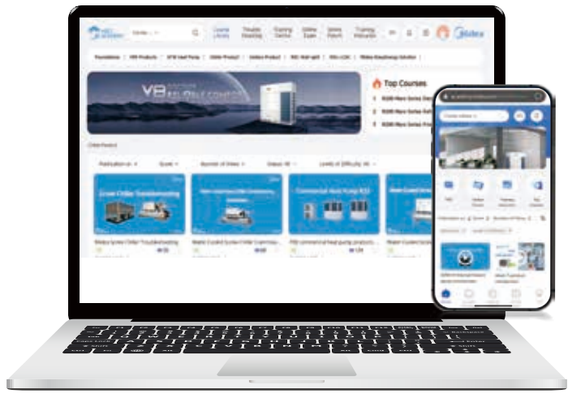
MBT Academy regularly organizes on-site training at Midea's headquarters and in certain countries, providing you with opportunities for hands-on practice and face-to-face discussions with experts.



97 training rooms
covering 58 countries worldwide

Online Learning Platform

The MBT Academy training website offers a more efficient and convenient learning pathway, allowing access to a vast array of resources anytime and anywhere.



Course Library

Including **8** Categories, **350+** Videos
Master core product knowledge

Trouble Shooting

Including **260+** Error Codes, **150+** Guides
Quickly locate and resolve equipment failures

Content Continuously Updating ...

Let's Start Learning:

PC

https://academy.midea.com

Phone

- Scan QR code
- LetsLink – MBT Academy



* 3 methods to log in: MIP account / TSP account / Email

GLOBAL BULK WAREHOUSE LAYOUT OVERVIEW



Europe

- Italy
- Germany
- France
- Hungary
- UK
- Poland
- Turkey
- Spain
- Romania
- Greece

Southeast Asia

- Vietnam
- Indonesia
- Thailand
- Malaysia
- Philippines

Latin America

- Puerto Rico
- Mexico
- Venezuela
- Brazil

Asia and Africa

- China
- Russia
- Georgia
- Egypt
- South Africa
- UAE
- Qatar
- Iraq
- India
- Uzbekistan

Australia

- Australia

Available Spare Parts centers 30

Europe (10):

Italy/Germany/France/UK/Spain/Poland/Hungary/Greece/Turkey/Romania

Asia-Africa (10):

China/Russia/Georgia/UAE/Egypt/Uzbekistan/India/South Africa/Iraq/Qatar

Latin America (5):

Mexico/Puerto Rico/Venezuela/Brazil/Australia

South-East Asia (5):

Vietnam/Thailand/Malaysia/Indonesia/Philippines

VC Max

The VC Max Series VRF uses algorithms and self-learning technology to monitor the operation of the equipment, so that the equipment can run stably and be maintained in time to ensure that the equipment always runs in optimal condition throughout its life cycle.

OUTDOOR UNITS

VC Max



Outdoor Unit Lineup

VC Max

HP	8-20
Single Unit	

HP	22-30
Single Unit	

HP	32-60
Combined Unit	

HP	62-90
Combined Unit	

Outdoor Unit Features

	Features		VC Max
Innovative Technologies	HyperLink	Midea proprietary communication bus chip greatly simplifies installation, saving associated costs.	●
	ShieldBox	Fully-enclosed electrical control box provides robust protection for internal electrical components.	●
	SuperSense	17 sensors monitor every component of the refrigerant pipeline to ensure optimal performance.	●
	Meta 2.0	Triple variable control maximizes comfort and energy efficiency.	●
	Zen air 2.0	Maximizes comfort while ensuring a supply of healthy indoor air.	●
	Doctor M 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient.	●
High Efficiency	Full DC inverter technology	All indoor and outdoor unit electrical components utilize DC power supply, improving efficiency and saving energy.	●
	Micro-channel refrigerant subcooling	The refrigerant system can achieve 15°C subcooling, improving refrigerant heat transfer efficiency while reducing noise.	●
	Low standby-power consumption	Standby power consumption as low as 3.5W.	●
	60-step energy management	The system can be set from 40% to 100% capacity output in 1% increments	●
	Duty cycling (unit)	Equalizes running time of outdoor units in a multi-unit configuration, significantly extending unit lifespan.	●
	Duty cycling (compressor)	Equalizes compressor running time in dual-compressor units, significantly extending compressor lifespan.	●

	Features		VC Max
High Reliability	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (requires combined-unit configuration).	●
	Backup operation (compressor)	If one compressor fails, the other compressor provides backup so that the system can continue operating(requires dual-compressor unit).	●
	Backup operation (fanmotor)	If one fan motor fails, the other fan motor provides backup so that the system can continue operating (requires dual-fan unit).	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provides backup so that the system can continue operating	●
	Precise oil control	Monitors the oil levels of all outdoor compressors to ensure sufficient oil at all times, helping prevent potential damage caused by shortages.	●
	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	○
	Anti-corrosion protection	Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard	●
	Micro-channel refrigerant cooling PCB	Achieves efficiencies up to 10 times higher than traditional refrigerant pipe cooling.	●
	Auto dust-removal function	Blows away accumulated dust on the outdoor unit, ensuring stable operation in dusty environments.	●
	Alarm output	A system malfunction triggers a remote alert notifying service personnel the service or maintenance is required.	●
	Fire alarm input	In the event of fire, receive fire information in time and stop the system immediately to avoid serious problems.	●

● standard feature　O customization option　X function not available

● standard feature　O customization option　X function not available

Outdoor Unit Features

	Features		VC Max
Enhanced Comfort	Silent mode	A 15-level silent mode gives your customers maximum customization options.	●
	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	Our diverse capacity range ensures an ideal fit for any application, from large buildings to small.	8-30HP (single) 32-90HP (combined)
	Wide range of indoor units	Our comprehensive lineup includes 12 indoor unit styles and more than 100 models to meet the needs of any configuration.	●
	Wide operation range	Stable performance under extreme conditions.	-15~55°C
	Long piping capability	Provides system design flexibility along while lower costs due to simplified installation.	●
Easy Installation And Service	Auto addressing (ODU~IDU)	Automatically assigns addresses to indoor units, simplifying installation.	●
	Auto addressing (ODU~ODU)	Automatically assigns addresses to slave outdoor units, further simplifying installation (requires combined-unit configuration).	●
	Automatic refrigerant charging	Makes installation and service easier and more efficient.	○
	Automatic refrigerant recycling	During outdoor unit maintenance, refrigerant can be temporarily stored in indoor units, and vice versa.	●
	Bluetooth module	Enables storage of fault data, operation parameter enquiry, system parameter setting, simplified PCB replacement and program upgrades for indoor and outdoor units.	○
	Digit display	Intuitive, 4-digit, 7-segment display makes it easy to set parameters and check for parameters and errors.	●
	High external static pressure	Up to 120Pa ESP enables longer duct runs providing greater installation flexibility.	● 0-20Pa ○ 20-120Pa
	Flexible communication wire topology	Supports any communication topology, greatly simplifying installation and reducing installation cost.	●
	2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures.	●
	Extended communication wiring capability	Communication wiring capability up to 2000m offers more flexible installation options.	●
	Wide combination ratio	Combination ration 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 defrosting	Improves maintenance efficiency.	●
	Supports manual and automatic oil return	Improves maintenance efficiency.	●
	Easy software update*	The software can be updated on site via USB, or remotely via the web.	●
	Flexible controller connectivity	The central controller and BMS gateway can simultaneously connect to the ODU while the central controller can connect either the ODU or IDU.	●
	Refrigerant volume monitoring	The unit can diagnose excessive or insufficient amounts of refrigerant, and alert maintenance personnel, helping to prevent system malfunction.	●
	Easy system commissioning and inspection*	System commissioning and inspection can easily be conducted on-site or remotely via the web.	●
	Intelligent maintenance tool	Intelligent Bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency.	○

*Web function requires data cloud gateway sold separately.

● standard feature　O customization option　X function not available

INNOVATIVE TECHNOLOGIES

HyperLink

ETA 2.0

ShieldBox

ENair 2.0

SuperSense

DOCTOR m. 2.0



HyperLink

Midea proprietary communication bus chip greatly simplifies installation, saving associated costs.

Benefits

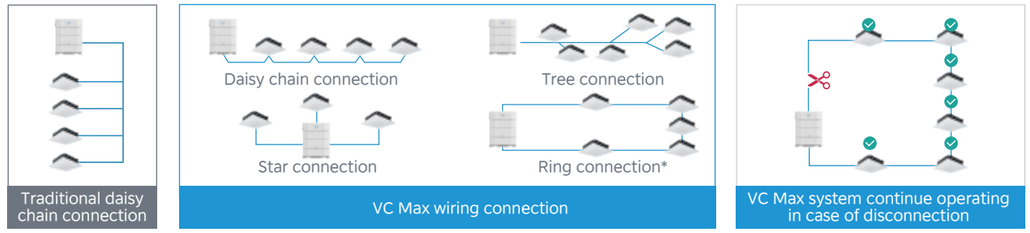
- Flexible installation
- Low installation cost
- High reliability
- Stable operation



HyperLink communication technology supports any wiring pattern, not just daisy chain connections, reducing installation costs while eliminating potential wiring errors. It has stronger anti-interference ability, with a communication distance of up to 2000m.

Flexible Communication Wire Topology

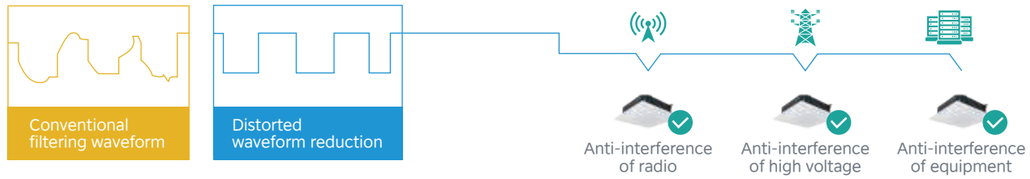
In addition to the traditional daisy chain connection, multiple wiring topologies are supported including serial, tree and ring connections. This flexibility reduces installation costs while eliminating potential wiring errors.



*In a ring connection, ensure that the communication wire is connected with proper polarity (M1 port to M1 port and M2 port to M2 port).

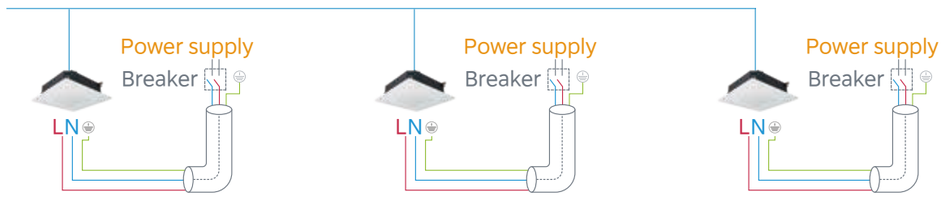
Super Anti-interference Capability

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



Flexible Power Supply for Indoor Units

HyperLink 's unique communication architecture enables indoor units to be powered by either a uniform power supply or individual and zoned power supplies. This is especially beneficial for large, complex buildings as individual units can be powered independently and switched on and off as needed.



ShieldBox

Fully-enclosed electrical control box provides robust protection for internal electrical components, greatly improving system **RELIABILITY**.

Benefits

High reliability

Stable operation

- IP (INGRESS PROTECTION)

IP55

Dustproof grade code
Prevents entry of foreign objects and dust

Waterproof grade code
Prevents water entry in multi-directional spray



Shieldbox keeps electronic components isolated from the external environment to protect against corrosion, sand, humidity and other harsh conditions. Additionally, it prevents insects and small animals from entering so internal electronics remain well protected.

All Micro-channel Refrigerant Cooling

All electronic components including the inverter module, filter module and power module are cooled by a specially-designed micro-channel refrigerant to ensure that the electronic components always maintain the optimal temperature range.



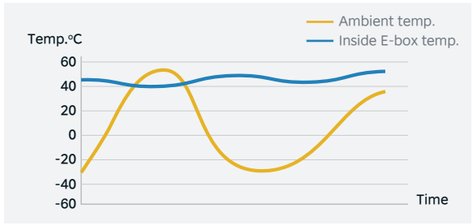


Built-in Circulating Fan

A built-in circulating fan enhances airflow within the chamber, promoting more efficient heat exchange and a consistent ambient temperature inside.

Multiple High-Precision Temperature Sensors

Five high-precision temperature sensors continuously monitor the operating temperature of electronic components under different conditions, ensuring that the internal temperature of the chamber remains stable at all times.



SuperSense

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

Benefits | High reliability | Stable operation | Enhanced comfort



Up to 17 strategically-positioned sensors constantly monitor every aspect of the refrigerant pipeline, ensuring reliability and stable operation. Additionally, virtual sensor technology serves as a backup in case of sensor failure, ensuring uninterrupted system operation.

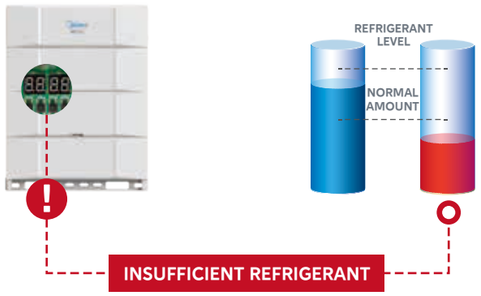
Comprehensive Sensor Grid

The VC Max Series VRF incorporates advanced refrigerant monitoring technology, equipped with 17 sensors that include built-in data models for compressors, heat exchangers, throttling components, and other critical parts. This system allows real-time monitoring of refrigerant status throughout the entire VRF system.



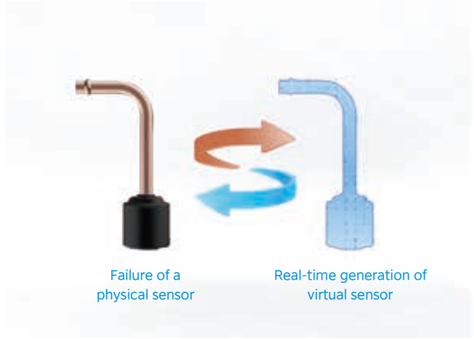
Refrigerant Volume Monitoring

Sensors closely monitor refrigerant volume and circulation to ensure optimal operating levels are consistently maintained.



Virtual Sensor Backup

In the event of a sensor failure, the system will automatically simulate a virtual backup sensor using other sensors, ensuring continuous operation.



META 2.0

Midea Evaporating Temperature Alteration (META) 2.0 next-gen, further upgraded META technology to maximize **ENERGY SAVING.**

Benefits | Energy saving | Enhanced comfort | Rapid cooling

META 2.0 is our proprietary triple-variable control technology that leverages a professional operation and maintenance algorithm that increases system efficiencies by more than 28%.

Variable Refrigerant Flow

STEP 1

Intelligent space recognition

The indoor unit automatically determines the dimensions of the space and assesses the effectiveness of insulation by calculating the rate of temperature fluctuation.



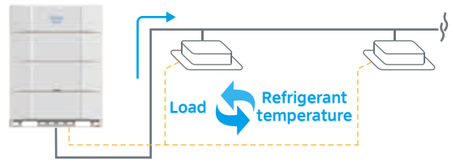
Automatic calculation of building load and required refrigerant volume based on sensor parameters.

Variable Refrigerant Temperature

STEP 2

Automatic refrigerant temperature modulation

The system automatically adjusts the evaporating temperature in cooling mode in response to the calculated room load, maximizing efficiency.



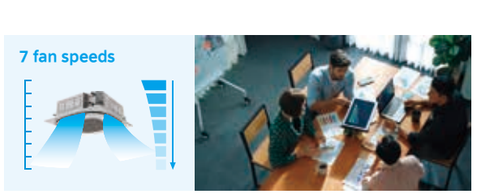
Automatic matching of the corresponding refrigerant temperature to the load.

Variable Indoor Airflow

STEP 3

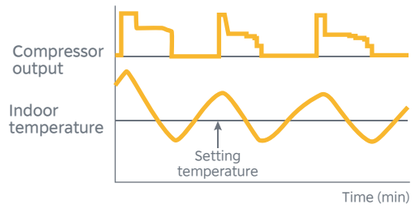
Adaptive indoor airflow and refrigerant flow

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

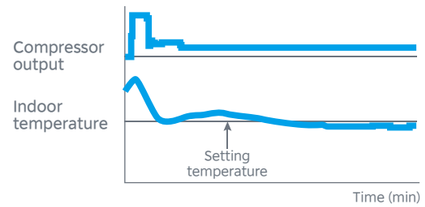


Automatic indoor airflow adjustment based on the calculated load and refrigerant temperature.

Conventional refrigerant regulation



VC Max refrigerant regulation



ENair 2.0

A revolutionary indoor air solution focused on **HEALTHY** indoor air combined with supreme **COMFORT.**

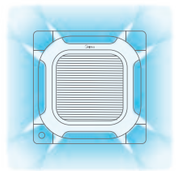
Benefits | Quiet | Enhanced comfort | Healthy



ZEN Air 2.0 is all about comfort and better indoor living with multiple, precise adjustments for quiet operation, noise reduction, air filtration, sterilization, and other technologies aimed at promoting a healthier indoor environment.

360° Airflow

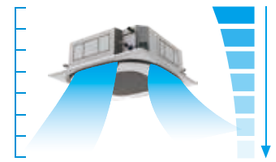
Newly-designed indoor units feature a round air discharge for more uniform, evenly-distributed airflow.





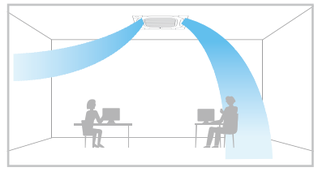
7 Fan Speeds

7 indoor fan speed options provide flexibility toward meeting the needs of different indoor conditions.



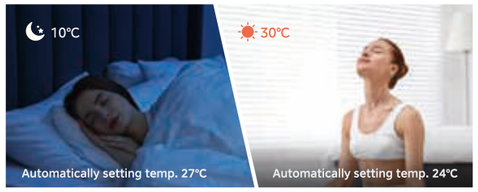
Individual Louver Control

All four louvers can be independently adjusted for more customized airflow.



Sleep Mode

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

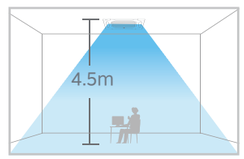


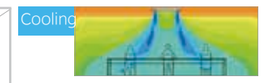
*Temperature on left is for reference.

Extended Distance Air Delivery*

Our Four-way Cassette is designed with an additional 50Pa of static pressure for extended airflow delivery and can be used in spaces with up to a 4.5m ceiling height.

*Available as a customized option.





DOCTOR m. 2.0

Intelligent diagnostic technology makes servicing **EASIER** and more **EFFICIENT.**

Benefits

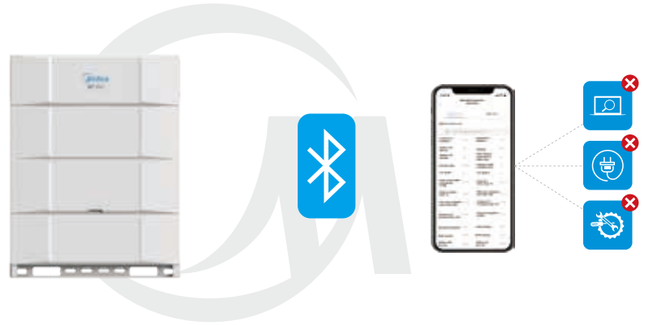
- Easy maintenance
- Fast maintenance
- Low maintenance cost

By harnessing a cloud-based platform powered by big data and artificial intelligence, the VC Max Series VRF system monitors the real-time operation status of each unit, predicts potential system malfunctions and proactively recommends service or maintenance. An intelligent Bluetooth module and after-sales kit further streamline maintenance while enhancing servicing efficiency.

Intelligent Bluetooth Module*

With the intelligent Bluetooth module or specialized Bluetooth after-sales kit, you can directly access outdoor unit data using a smartphone, eliminating the need to connect to a PC or open the cabinet.

*Available as a customized option.



Cloud Data Synchronization*

The VC Max Series VRF synchronizes and stores all unit parameters to the cloud via a data cloud gateway. This includes data such as run and lock status, blockage frequency, spot inspection parameters, and more. Users can access real-time and historical parameters from anywhere with an internet connection using computers, tablets, or mobile devices.

*Data cloud gateway must be purchased separately.



Cloud-based Analytics

The VC Max Series VRF system sends real-time operational data to the cloud for analysis. It can then generate alerts for any abnormal conditions and proactively suggest service or maintenance. This helps prevent costly system failures and identifies potential issues that may not be detected through ordinary visual inspections.

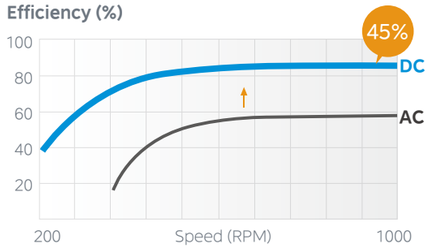


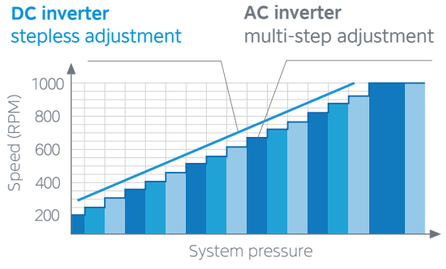
Full DC Inverter Technology

Full DC Inverter Outdoor Components

The VC Max Series VRF utilizes DC inverter compressors and fan motors which enables high-precision and stepless speed adjustment for maximum efficiency, consistently stable operation and reduced noise levels.









Wider frequency adjustment range



Faster cooling



Higher energy efficiency

Full DC Inverter Indoor Components

All powered devices, such as indoor fan motors, drain pumps, and electric control boards operate on full DC power. This enhances electrical efficiency by up to 20% while enabling precise indoor temperature control with minimal fluctuations.

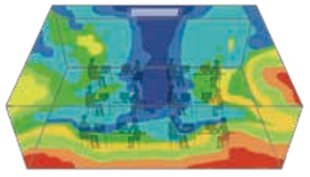






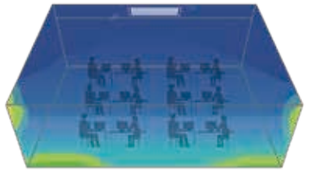
20%

Efficiency improvements

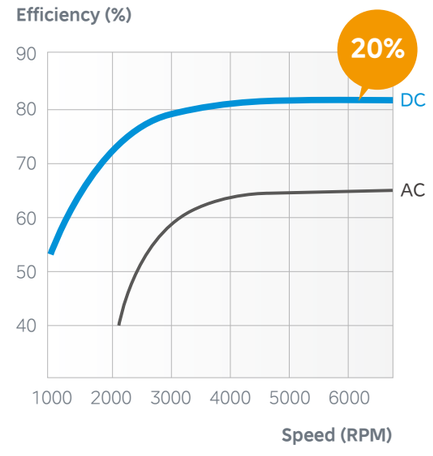


Uneven temperature distribution

VS



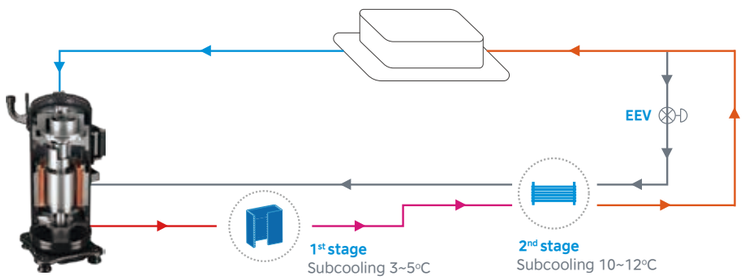
Uniform temperature distribution



HIGH EFFICIENCY

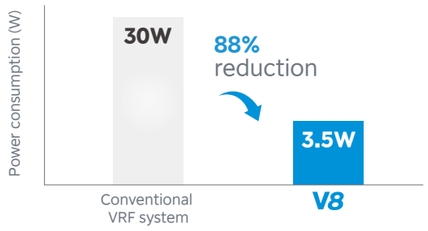
Advanced Subcooling Technology

The VC Max Series VRF utilizes a micro-channel heat exchanger to achieve 15°C refrigerant subcooling. This significantly enhances the efficiency of refrigerant heat transfer while reducing the noise generated by refrigerant flow.



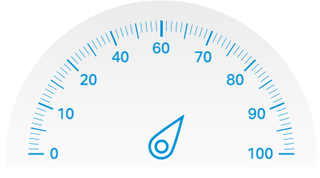
Low Standby Power Consumption

In contrast to the standard 30W standby power consumption of traditional VRF systems, the VC Max Series VRF employs an optimized control scheme, lowering standby power requirements to as little as 3.5W.



60-step Energy Management

In situations with temporary electrical supply constraints, the outdoor unit offers a 60-step energy management feature which enables precise adjustment of output capacity from 40% to 100%, in 1% increments. This mitigates the risk of circuit tripping and allows the system to operate even in the presence of unstable electrical supply conditions.



ENHANCED COMFORT

Advanced Silent Technology

A 15-level silent mode gives your customers maximum customization options.



15 silent options

Additional Ambient Temperature Sensor*

An additional external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system should be running in cooling in auto priority mode, ensuring indoor comfort.



*Available as a customized option.

HIGH RELIABILITY

Quadruple Backup

In a two-fan, two-compressor, multiple-unit configuration, each can serve as a backup for the other. In addition, the V8 series VRF generates a backup virtual sensor for each corresponding physical sensor by means of an algorithm so operation continues even if a fault occurs, ensuring uninterrupted indoor comfort.

1 Unit Backup

In a multi-unit system, each unit serves as a backup to another, ensuring the system will continue operating even if one unit fails.

Operational compressor Failed compressor



Intelligent load bearing between units during normal operation



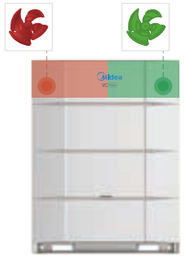
Continued operation in case of failure of one unit

2 Fan Backup

In a two-fan unit, each fan backs up the other ensuring the system will continue operating even if one fan fails.



During normal operation, each fan runs on demand



Continued operation in case of failure of one fan

Operational fan Failed fan

3 Compressor Backup

In a two-compressor unit, each compressor backs up the other ensuring the system will continue operating even if one compressor fails.



Intelligent load bearing between compressors during normal operation



Continued operation in case of failure of one compressor

4 Virtual Sensor Backup

By employing an algorithm, every physical sensor can create a corresponding virtual sensor, which serves as a backup. This ensures system operation remains unaffected in the event of a sensor failure.



Automatic virtual sensor backup

Dual Duty Cycling Modes

1 Unit Duty Cycling

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



Note: the duty cycling sequence shown is for reference only. Actual duty cycling order may vary. Refer to individual product specifications for recommended rotation sequence.

2 Compressor Duty Cycling

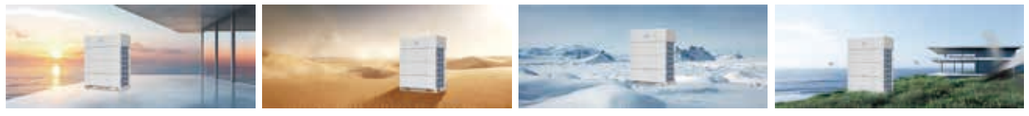
In a dual-compressor unit, duty cycling equalizes the running time of each compressor, significantly extending compressor lifespan.



Compressor start-up sequence

ShieldBox

IP55 fully-enclosed electrical control box provides robust protection for internal electrical components, greatly improving system reliability.



Corrosion proof Dustproof Rainproof/Snowproof Insect proof

HIGH RELIABILITY

SuperSense

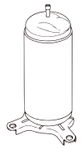
VC Max Series VRF utilizes up to 19 sensors for each outdoor unit and 4 for each indoor unit. System refrigerant operating status can be viewed in real time enabling intelligent analysis of operation parameters, smart error diagnosis and forecasting and visualize energy savings.



Precise Oil Control

Four-stage oil control technology monitors the oil levels of all outdoor compressors to ensure sufficient oil at all times. This help prevent potential damage caused by insufficient levels.

1



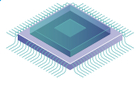
Compressor internal oil separation.

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 light aging testing.

*Heavy anti-corrosion treatment is available as a customized 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.

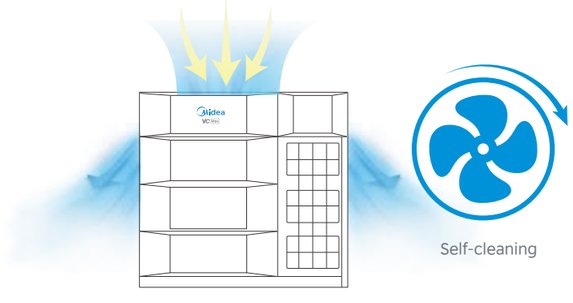
Outdoor Unit can resist 27 years of simulated severe corrosion under a salt contaminated traffic environment

A9268354

*UL anti-corrosion certificate is available for units treated with optional heavy anti-corrosion coating.

Auto Dust-Removal Function

Self-cleaning feature automatically removes dust from the outdoor unit, ensuring stable operation in dusty environments.



Self-cleaning

WIDE APPLICATION RANGE

Wide Capacity Range

The VC Max Series VRF are available in individual series and combinable series. The individual series has capacities from 8HP to 30HP and the combinable series from 8HP to 90HP, perfectly suited for small to large buildings.

VC Max - Combinable Series

Single unit
8-20HP



Single unit
22-30HP



Combined unit
32-60HP



Combined unit
62-90HP



Wide Operation Range

Thanks to refrigerant cooling technology, the VC Max Series VRF can operate at temperatures up to 55°C for cooling.



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**

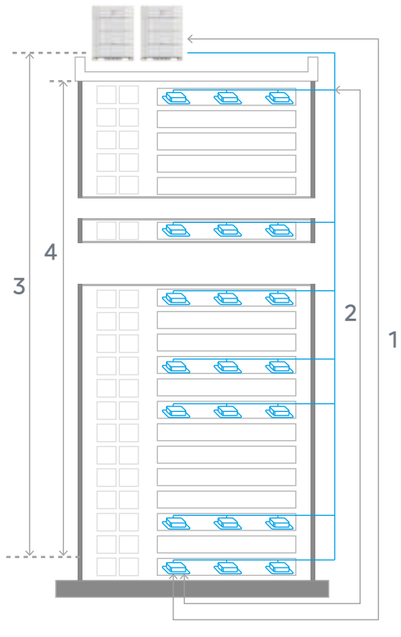
1 Longest piping length - actual (equivalent): **220(260)m**

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.



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.



EASY INSTALLATION AND SERVICE

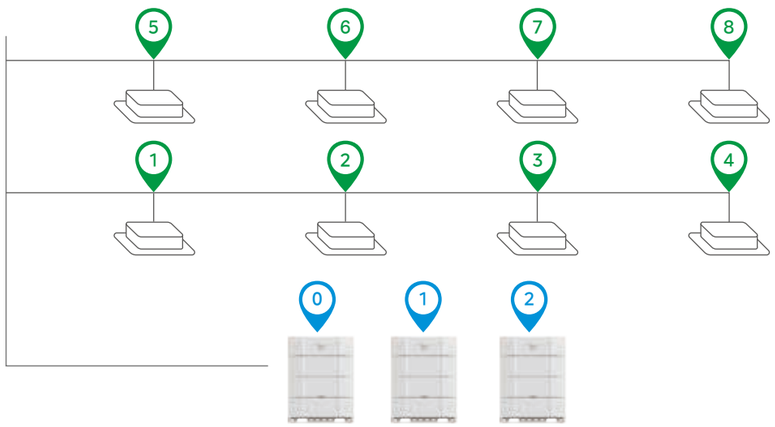
Free Wiring

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

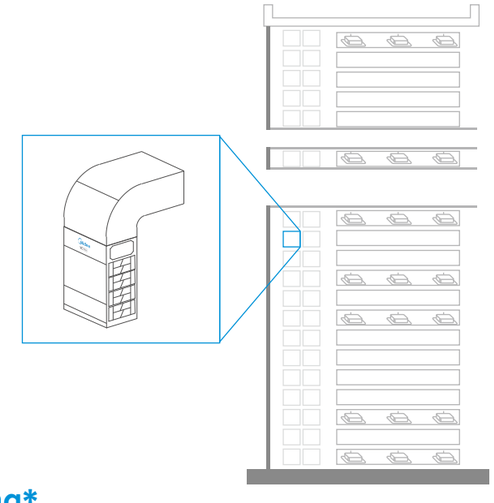
Addresses for all indoor units and combined outdoor units can be assigned automatically by the VC Max system, further simplifying installation.



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 customized option.



Automatic Refrigerant Charging*

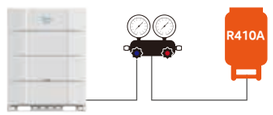
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

Manual refrigerant charging

1. Calculate additional refrigerant quantity
2. Connect refrigerant tank to the outdoor unit & start the filling process
3. Observe the weight scale to check the refrigerant charge
4. Close the shut-off valve manually & finish the filling process

Automatic refrigerant charging

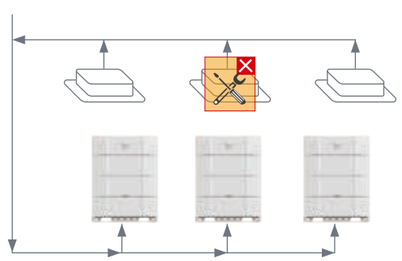
1. Connect refrigerant tank to the outdoor unit & activate automatic charging function
2. Close the shut-off valve automatically & finish the filling process

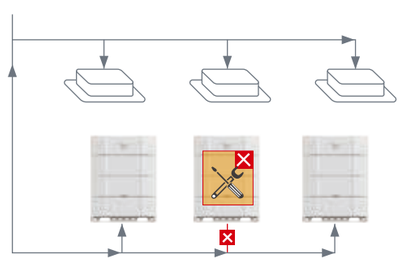


*Available as a customized option.

Automatic Refrigerant Recycling

When an indoor unit requires maintenance, refrigerant can be transferred to the outdoor units for temporary storage. This feature also works in reverse when outdoor units need maintenance as refrigerant can be directed to the indoor units or other outdoors for temporary holding. This simplifies and expedites the repair process.

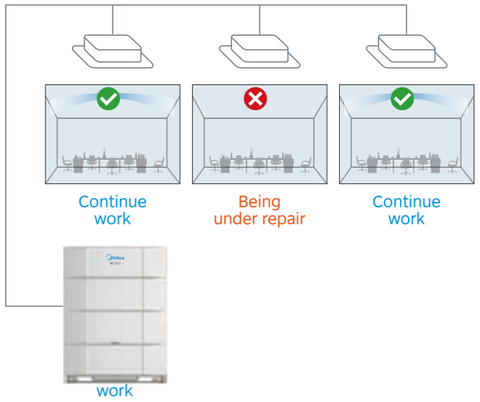




EASY INSTALLATION AND SERVICE

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.



Easy Software Program Upgrade

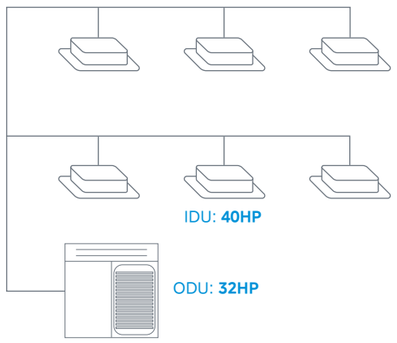
In addition to upgrading the program of outdoor and indoor units through USB and burner, the new product can also remotely upgrade all the programs of indoor and outdoor units through the data cloud gateway, making system upgrades very convenient and ensuring that the system program is always up to date.

*Data cloud gateway must be purchased separately.

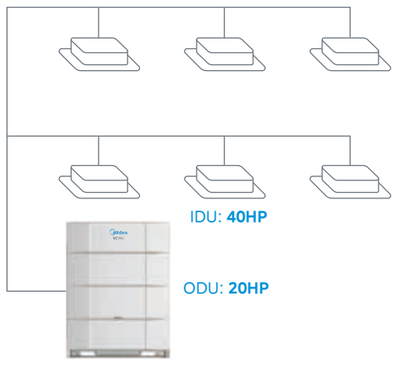


Wide Combination Ratio*

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.



Traditional VRF System



VC Max Series VRF System

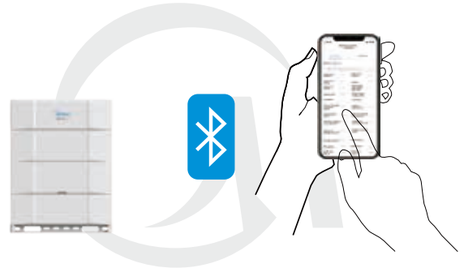
*Combination ratio over 130% is available as a customized option.

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-M224WV2GN1	MVC-M280WV2GN1	MVC-M335WV2GN1
Power supply		V/Ph/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	m³/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-M400WV2GN1	MVC-M450WV2GN1	MVC-M500WV2GN1
Power supply		V/Ph/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	m³/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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those of the unit's stop valves.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

VC MAX Series VRF

HP			20	22	24
Model name			MVC-M560WV2GN1	MVC-M615WV2GN1	MVC-M670WV2GN1
Power supply		V/Ph/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	m³/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-M730WV2GN1	MVC-M785WV2GN1	MVC-M850WV2GN1
Power supply		V/Ph/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	m³/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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those of the unit's stop valves.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

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/Ph/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	50-130% of outdoor unit capacity
	Maximum quantity		53	56	59
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	m³/h	31200	32100	32100
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4×2	8.4+10	8.4+10
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ38.1
Sound pressure level[3]		dB(A)	64	65	65
Net dimensions (W×H×D)		mm	(940×1760×825)×2	(940×1760×825)×2	(940×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2	(1010×1945×890)×2	(1010×1945×890)×2
Net weight		kg	200×2	200+225	200+225
Gross weight		kg	215×2	215+245	215+245
Ambient temp. operation range (Cooling)		°C	-15 to 55	-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/Ph/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	50-130% of outdoor unit capacity
	Maximum quantity		62	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	2	2
Fan	Type		DC	DC	DC
	Quantity		2	3	3
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m³/h	33000	37100	38000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10×2	8.4+12.8	10+12.8
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level[3]		dB(A)	66	66	66
Net dimensions (W×H×D)		mm	(940×1760×825)×2	(940×1760×825)+ (1340×1760×825)	(940×1760×825)+ (1340×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2	(1010×1945×890)+ (1410×1945×890)	(1010×1945×890)+ (1410×1945×890)
Net weight		kg	212+225	200+260	212+260
Gross weight		kg	232+245	215+285	232+285
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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

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/Ph/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	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	3	3
Fan	Type		DC	DC	DC
	Quantity		3	3	3
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m³/h	38000	37600	38500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+12.8	8.4+15.4	10+15.4
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level[3]		dB(A)	67	66	66
Net dimensions (W×H×D)		mm	(940×1760×825)+ (1340×1760×825)	(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)	(1010×1945×890)+ (1410×1945×890)
Net weight		kg	225+260	200+325	212+325
Gross weight		kg	245+285	215+350	232+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-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/Ph/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	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		3	3	3
Fan	Type		DC	DC	DC
	Quantity		3	4	4
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m³/h	38500	43500	43500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+15.4	12.8+15.4	12.8+15.4
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level[3]		dB(A)	67	67	67
Net dimensions (W×H×D)		mm	(940×1760×825)+ (1340×1760×825)	(1340×1760×825)×2	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+ (1410×1945×890)	(1410×1945×890)×2	(1410×1945×890)×2
Net weight		kg	225+325	260+325	260+325
Gross weight		kg	245+350	285+350	285+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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

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/Ph/Hz	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	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	4	4
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m³/h	44000	44000	44000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4×2	15.4×2	15.4×2
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ41.3	Φ41.3	Φ41.3
Sound pressure level[3]		dB(A)	67	67	67
Net dimensions (W×H×D)		mm	(1340×1760×825)×2	(1340×1760×825)×2	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1410×1945×890)×2	(1410×1945×890)×2	(1410×1945×890)×2
Net weight		kg	325×2	325×2	325×2
Gross weight		kg	350×2	350×2	350×2
Ambient temp. operation range (Cooling)		°C	-15 to 55	-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/Ph/Hz	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	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	4	4
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m³/h	53200	54100	54100
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4×2+15.4	8.4+10+15.4	8.4+10+15.4
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ41.3	Φ41.3	Φ41.3
Sound pressure level[3]		dB(A)	67	67	68
Net dimensions (W×H×D)		mm	(940×1760×825)×2+ (1340×1760×825)	(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)	(1010×1945×890)×2+ (1410×1945×890)
Net weight		kg	200×2+325	200+225+325	200+225+325
Gross weight		kg	215×2+350	215+245+350	215+245+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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

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/Ph/Hz	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	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	5	5
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m³/h	55000	59100	60000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10×2+15.4	8.4+12.8+15.4	10+12.8+15.4
Pipe connections[2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ44.5	Φ44.5	Φ44.5
Sound pressure level[3]		dB(A)	68	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)×2+ (1340×1760×825)	(940×1760×825)+ (1340×1760×825)×2	(940×1760×825)+ (1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2+ (1410×1945×890)	(1010×1945×890)+ (1410×1945×890)×2	(1010×1945×890)+ (1410×1945×890)×2
Net weight		kg	212+225+325	200+260+325	212+260+325
Gross weight		kg	232+245+350	215+285+350	232+285+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-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/Ph/Hz	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	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	5	5
Fan	Type		DC	DC	DC
	Quantity		5	5	5
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m³/h	60000	59600	60500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+12.8+15.4	8.4+15.4×2	10+15.4×2
Pipe connections[2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ44.5	Φ44.5	Φ44.5
Sound pressure level[3]		dB(A)	69	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)+ (1340×1760×825)×2	(940×1760×825)+ (1340×1760×825)×2	(940×1760×825)+ (1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+ (1410×1945×890)×2	(1010×1945×890)+ (1410×1945×890)×2	(1010×1945×890)+ (1410×1945×890)×2
Net weight		kg	225+260+325	200+325×2	215+350×2
Gross weight		kg	245+285+350	215+350×2	232+350×2
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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

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

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	325×2	325×2	325×2
Gross weight		kg	350×2	350×2	350×2
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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