

C-V8PROEU202305



# SMART IN ONE

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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.

GD MIDEA Heating & Ventilating Equipment Co. Ltd participates in the ECP programme for VRF. Check ongoing validity of certificate: [WWW.eurovent-certification.com](http://WWW.eurovent-certification.com)



# V8 PRO VRF Catalogue



## 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



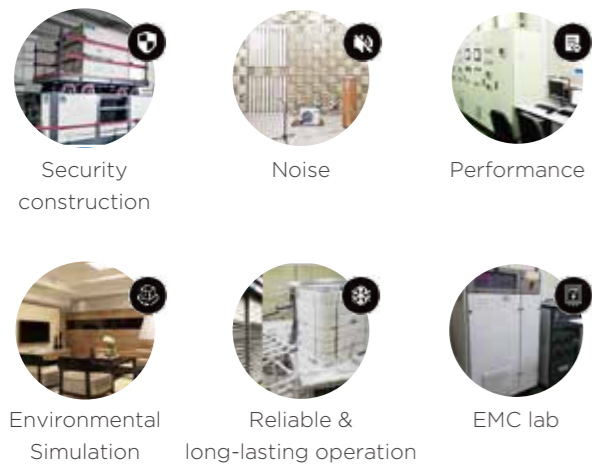
**3** businesses make up the core of Midea intelligent building solutions



**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.



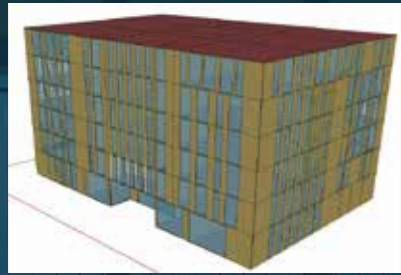
### Hospitals/ Schools/ Airports

#### 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

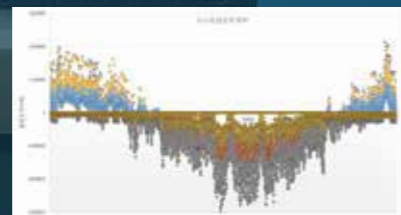


Energy Plus Building load calculation

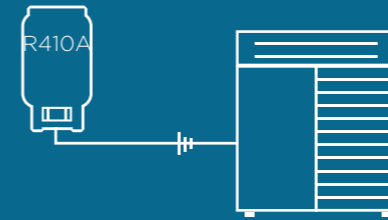


MSSP Online VRF system design

BIM building information import



### Installation service

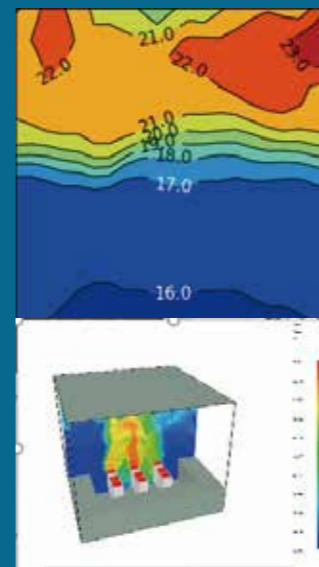


Automatic refrigerant charge



Automatic commissioning report

MCFD Energy consumption and airflow simulation optimization



### Management service



The probability of Filth blockage 80%



Degradation of energy efficiency 25%

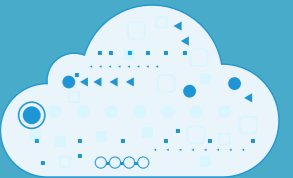
Continuous energy saving service



### 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.



## Technical Support Platform (TSP)

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

<https://tsp.midea.com/>



### My order

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

### 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 TSP, with the same functions as TSP. The mobile service improves the response time and convenience of technical support.

<https://link.midea.com>



FAQ



Complain

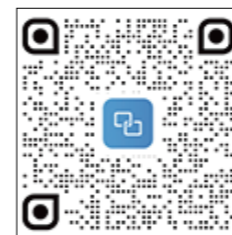


Technical Enquiry

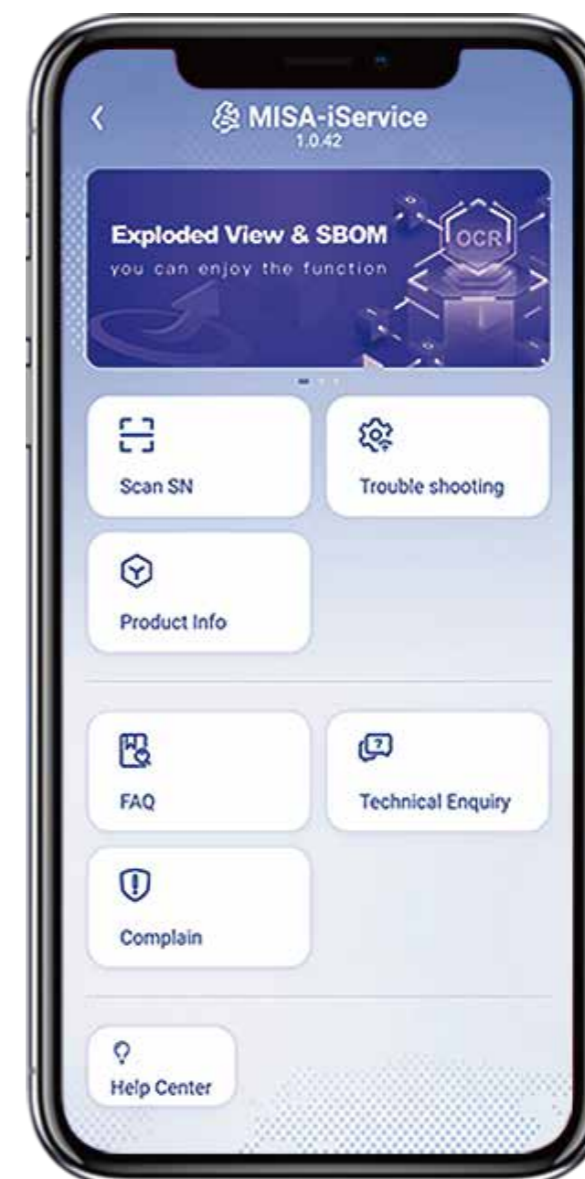


Trouble shooting

### 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://tsp.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.





 **OUTDOOR UNITS**



V8 (Combinable series)

V8i (Individual series)

**The V8 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 Unit Lineup




V8 (Combinable series)

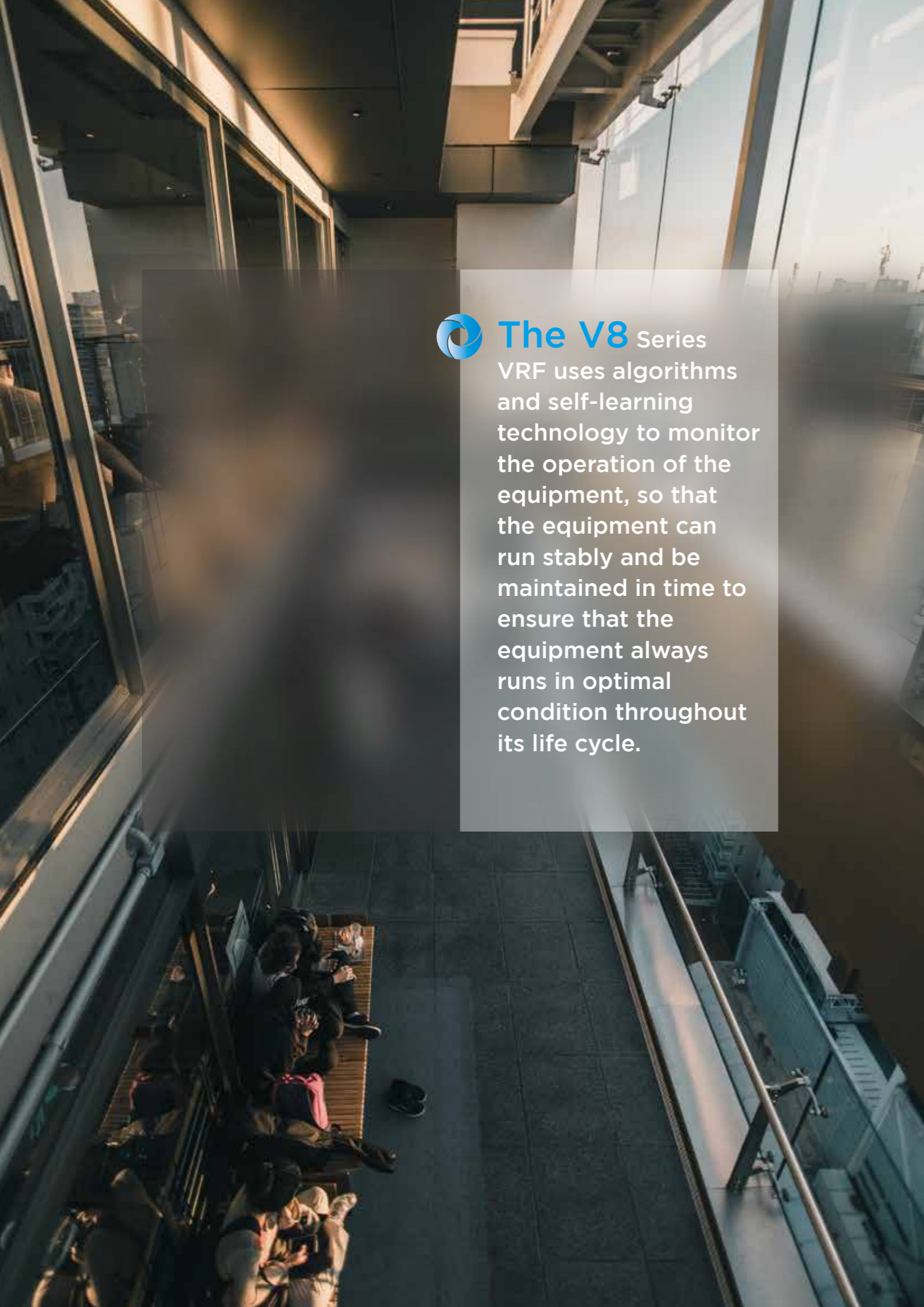
HP	8-16	18-24	26-32
Single Unit			

HP	34-64	66-96
Combined Unit		

Note: Four unit combinations are possible for 8-24 HP models. For four unit combinations please contact Midea.

V8i (Individual series)

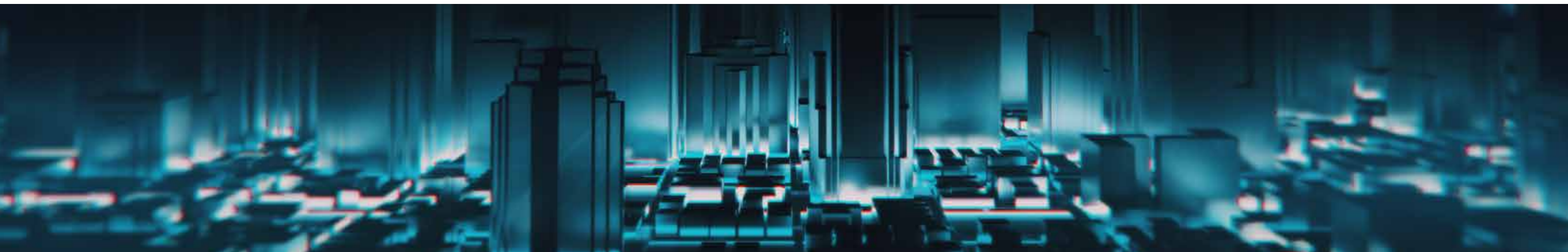
HP	8-16	18-24	26-32
Single Unit			



# Outdoor Unit Functions

Functions			V8	V8i
●: equipped as standard; ○: customization option; X: function not available				
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	19 sensors monitor the state of each part of the refrigerant pipeline throughout the whole process	●	●
	Meta 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	●	●
	Full DC inverter technology	All electrical components of outdoor and indoor units use DC power supply, improving electrical efficiency and saving energy	●	●
High Efficiency	Enhanced Vapor Injection (EVI) compressor	Increases refrigerant circulation and improves both cooling and heating 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	●	●
	G-type heat exchanger	Large capacity outdoor unit with G-type heat exchanger, which can increase the heat exchanger area and saves floor space	●	●
	60-step energy management	The system can be set from 40% to 100% capacity output in 1% increments	●	●
	Duty cycling (unit)	Equalizes the running time of the outdoor units in a multiple-unit system, significantly extending unit lifespan (available for combined units)	●	X
	Duty cycling (compressor)	Equalizes the running time of the compressor in each unit, significantly extending compressor lifespan (available for units with two compressors)	●	●

Functions			V8	V8i
●: equipped as standard; ○: customization option; X: function not available				
High Reliability	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (available for combined units)	●	X
	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 units with two fan motors)	●	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provides backup so that the system can continue operating	●	●
	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating compressor oil shortages	●	●
	Heavy anti-corrosion protection	Can be customized with heavy anti-corrosion treatment for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life	○	○
	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	●	●
	Chassis electrical heater	Prevents condensation on the chassis from freezing in winter	○	○
	Anti-snow shield	Prevents snow from accumulating on the outdoor unit, guaranteeing stable unit operations on snowy days	○	○
	Auto snow-blowing function	Blows away accumulated snow on the outdoor unit, guaranteeing stable unit operations on snowy days	●	●
	Auto dust-clean function	Blows away accumulated dust on the outdoor unit, guaranteeing stable unit operations in a dusty environment	●	●
	Resistant to magnitude 8 earthquakes	A reinforced frame footprint to prevent tipping and deformation damage in magnitude 8 earthquakes	○	○
	Resistant to violent typhoon	A reinforced trusses and double fastening for stable operation even under violent typhoon	○	○
	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	●	●	



# Outdoor Unit Functions

Functions			V8	V8i
●: equipped as standard; ○: customization option; X: function not available				
Enhanced Comfort	Silent mode	15-step silent mode selections provide more freedom and convenience to match the needs of customers	●	●
	Intelligent defrosting technology	Calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting	●	●
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature (available in changeover priority mode)	●	●
	Additional ambient temperature sensor	The additional external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system is running in cooling or heating in auto priority mode, ensuring indoor comfort	○	○
	0.1 °C control precision	Control precision of the sensor can reach 0.1°C, ensuring less fluctuations in room temperature	●	●
	Multiple priority modes	10 priority modes meet the requirements of all scenarios	●	●
	Wide Application Range	Wide capacity range	Meets all customer requirements from small to large buildings	8-32HP (single) 34-96HP (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 (C) -30-30°C (H)	-15-55°C (C) -30-30°C (H)
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	●	●
Auto addressing (ODU-ODU)		Distributes addresses to slave outdoor units automatically, further simplifying the installation (available for combined units)	●	X

Functions			V8	V8i
●: equipped as standard; ○: customization option; X: function not available				
Easy Installation And Service	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 ○	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 ration can be extended to 50%-200% under certain conditions which can meet different project requirements	50-130% ● 50-200% (for single unit system) ○	50-130% ● 50-200% ○
	Supports manual and automatic defrosting	Improves maintenance efficiency	●	●
	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.



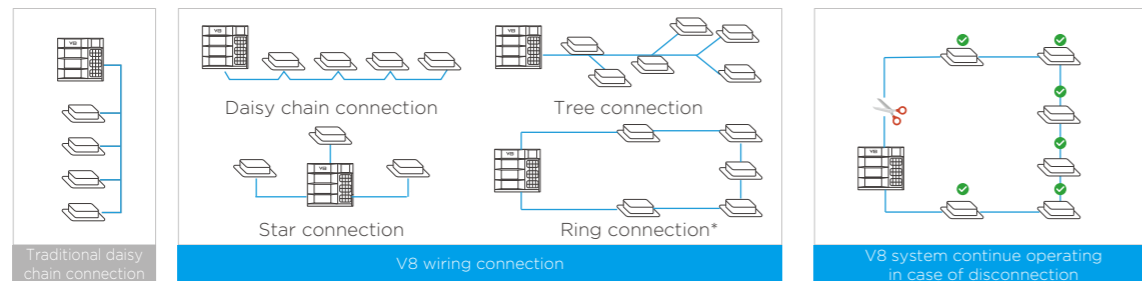
**Benefits**

- 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**

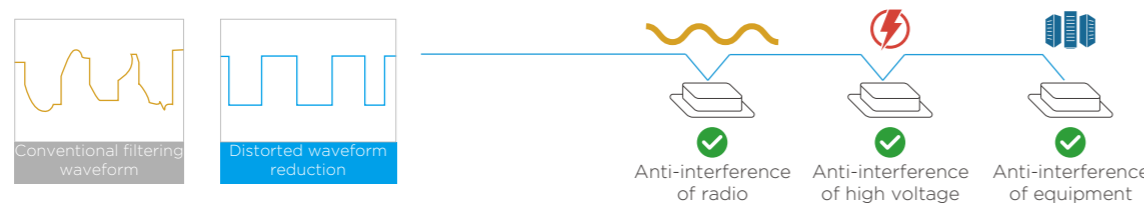
In addition to the traditional daisy chain connection, the communication wire supports tree connection, star connection, ring connection and so on. The wiring is flexible, which greatly reduces installation costs and has no possibility of wrong connection on site.



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

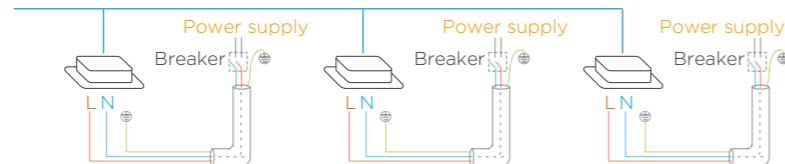
**Super Anti-interference Capability**

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.



Fully sealed electric control box provides all-round protection for internal electronic components, greatly improving system **RELIABILITY**.



**Benefits**

- High reliability
- Stable operation

Fully sealed 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.

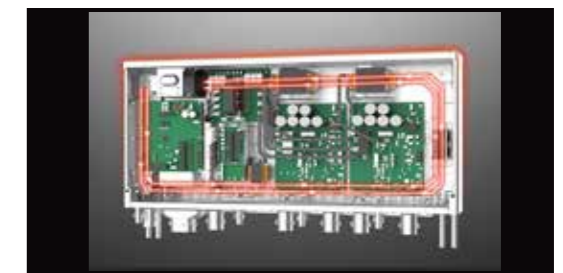
**All Microchannel Refrigerant Cooling**

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.



**PTC Heater**

The unique PTC heater, with precise temperature control sensor, can still ensure that the temperature inside the chamber remains within the normal operating temperature range of electronic devices even in the low-temperature environment of -30°C.



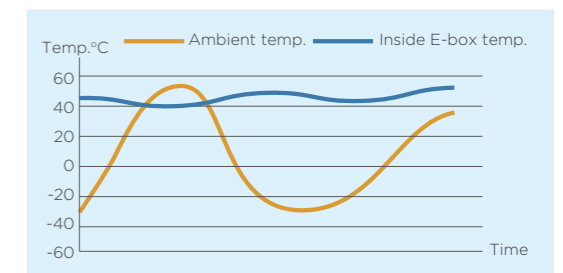
**Built-in Circulating Fan**

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**.



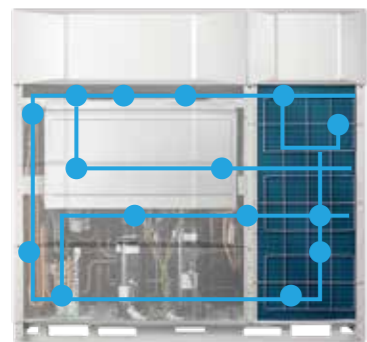
**Benefits**

- High reliability
- Stable operation
- Enhanced comfort

Up to 19 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.

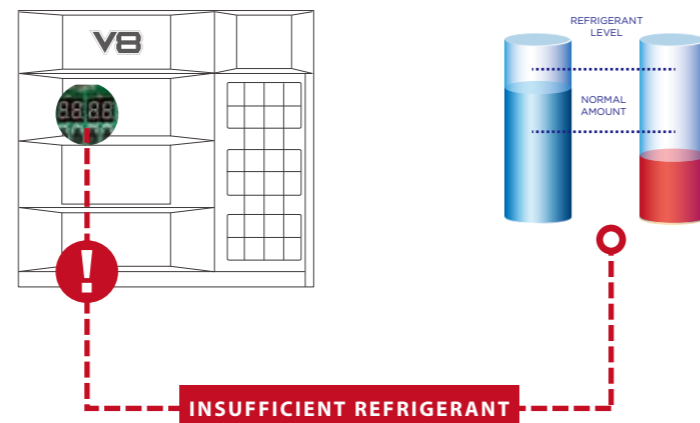
**Complete Sensors**

The V8 Series VRF features the industry's most comprehensive range of 19 condition sensors with built-in data models for compressors, heat exchangers, throttling components and more. By analyzing sensor data in real time, it can sense the status of the refrigerant anywhere in 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/heating

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.

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

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**Variable Refrigerant Temperature**

**STEP 2: System refrigerant temperature determination**

The system automatically matches the evaporating temperature (in cooling) or condensing temperature (in heating) to the room load to maximize comfort and energy efficiency.

Automatic matching of the corresponding refrigerant temperature to the load.

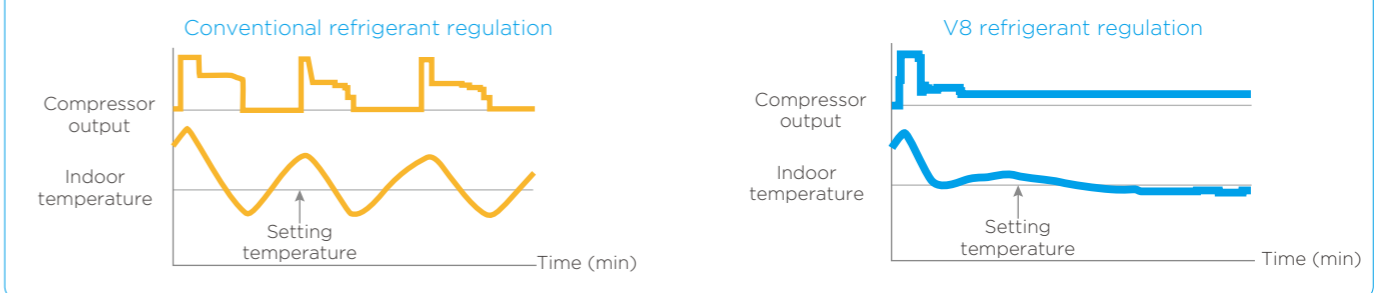
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**Variable Indoor Airflow**

**STEP 3: Adaptive indoor airflow and refrigerant flow**

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

Automatic matching of the corresponding indoor airflow to the load and refrigerant temperature.



## Zen Air 2.0

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



Sleep mode



Soft wind mode

### Benefits



Quiet



Enhanced comfort

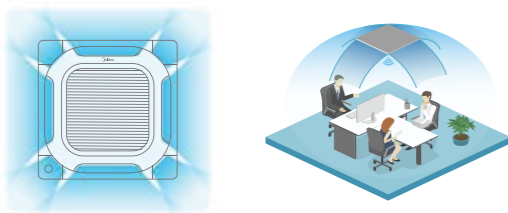


Healthy

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 V8 Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

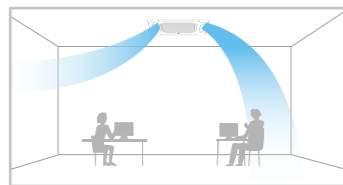
### 360° Airflow

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



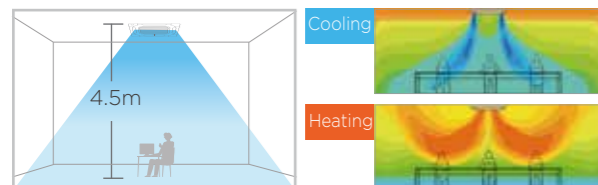
### Individual Louver Control

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.

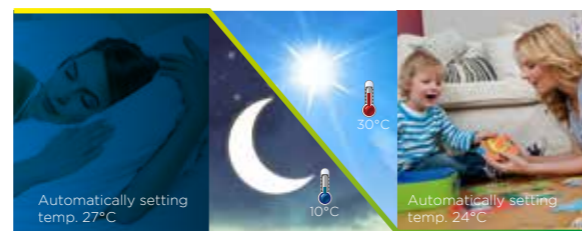
### 7 Fan Speeds

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.



\*Temperature on left is for reference.

### 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 V8 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.

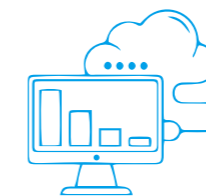
### Intelligent Maintenance Tool

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.



### Real-time Monitoring of Operating Parameters

The V8 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 is still under development and needs to be purchased separately.

### Cloud-based Big Data Analytics

Midea V8 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.

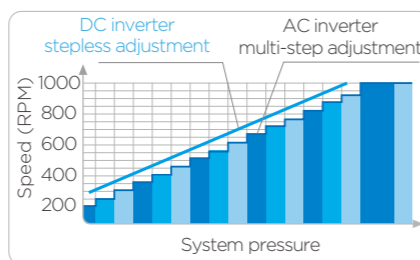
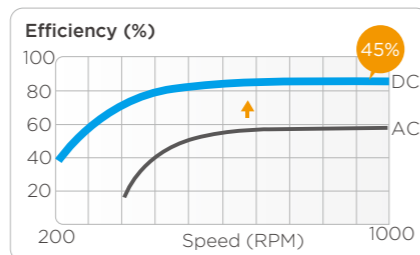
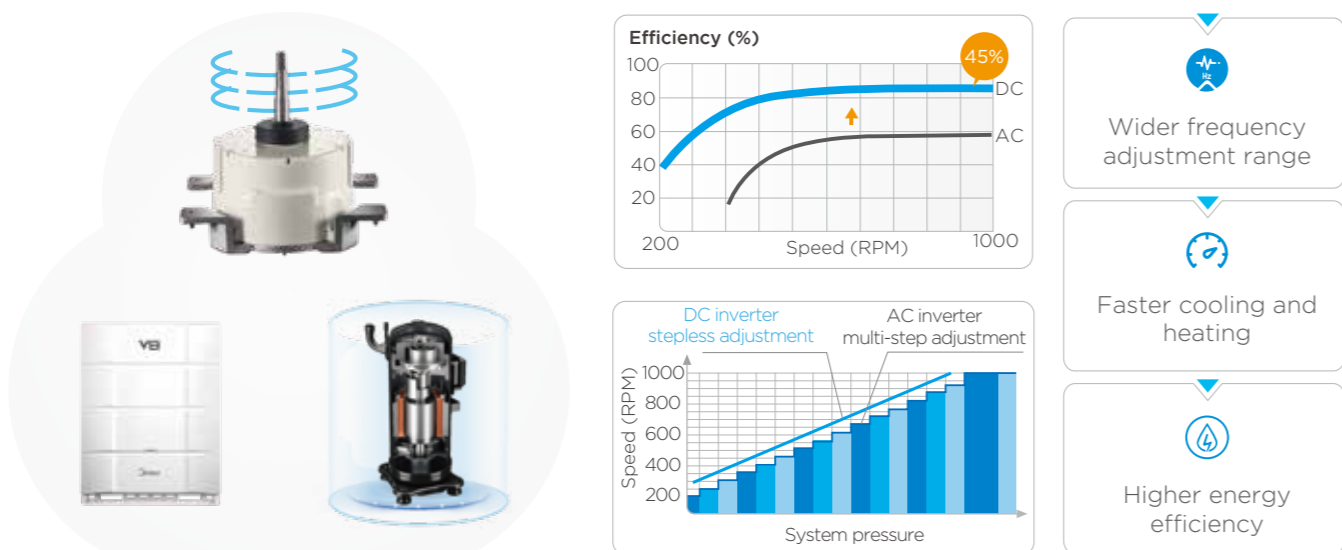


# High Efficiency

## Full DC Inverter Technology

### Full DC Inverter for Outdoor Components

The V8 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.

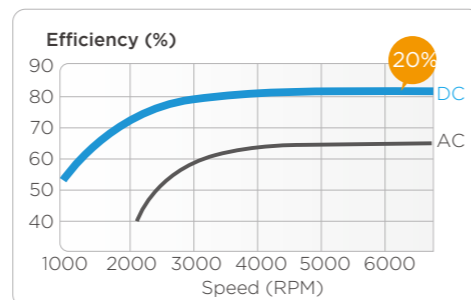
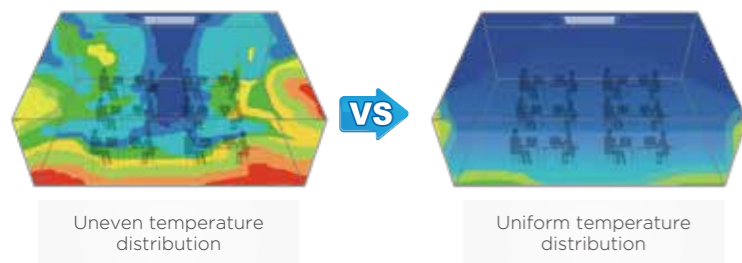


## Full DC Inverter for Indoor Components

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.

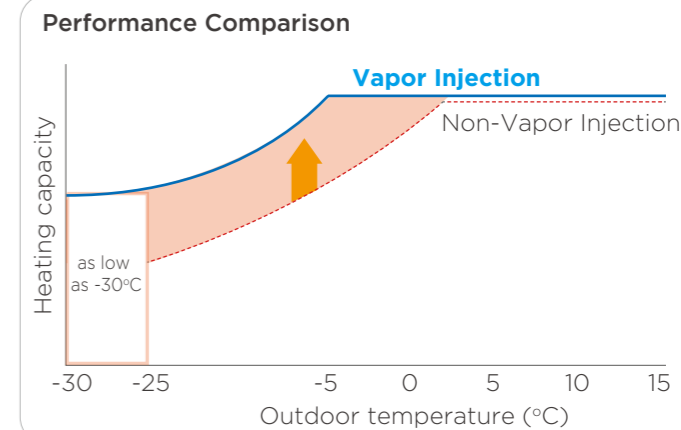
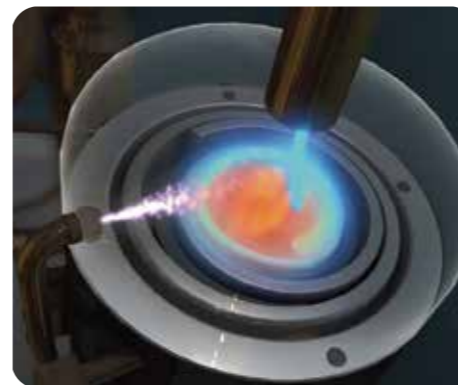


**20%**  
Efficiency  
improvements



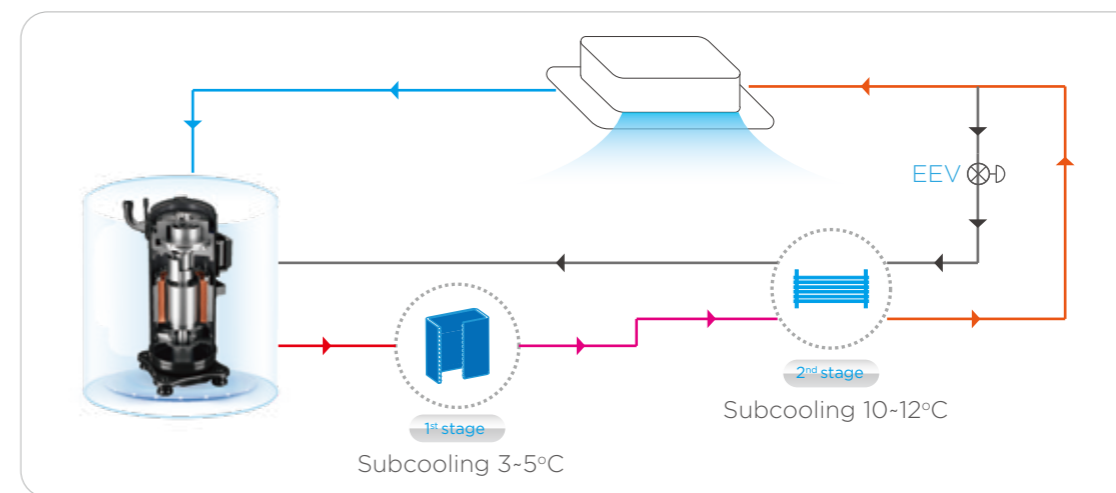
## Enhanced Vapor Injection (EVI) Compressor

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



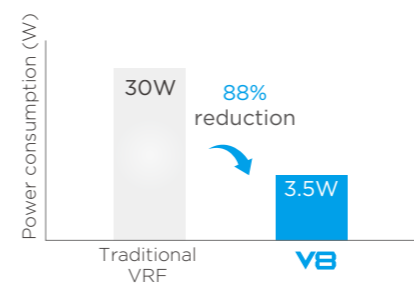
## Advanced Subcooling Technology

The V8 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.



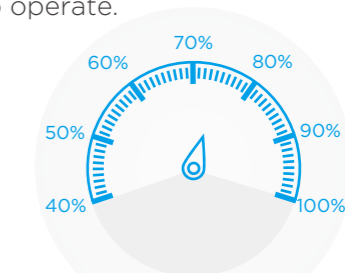
## Low Standby Power Consumption

Compared to the standby power consumption of traditional VRF of about 30W, the V8 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 V8 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

### 2 Fan Backup

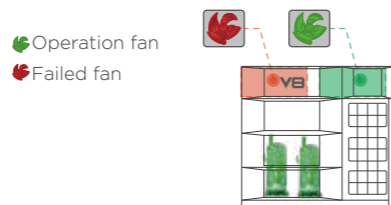
In unit with two fans, the two fans act as a backup to each other, ensuring that the system can continue to operate if one fan fails.



In normal operation, each fan runs on demand



Continue operating in case of failure of one unit



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

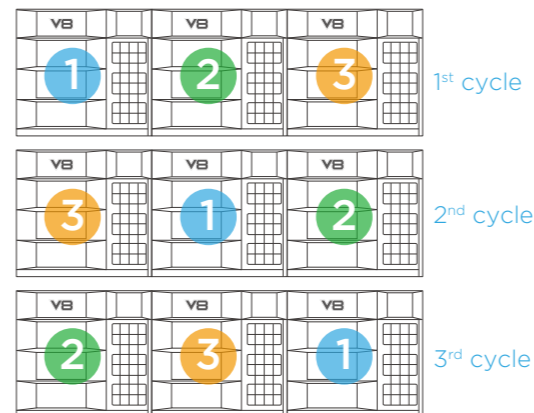


Automatic backup operation of the corresponding virtual sensor in case of failure of one physical sensor

## Double Duty Cycling

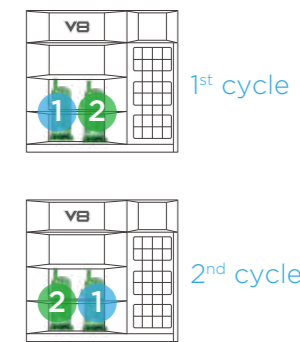
### 1 Unit Duty Cycling

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

Fully sealed electric control box provides all-round protection for internal electronic components, greatly improving system reliability.



Anti-corrosion



Dustproof



Rain & snow proof



Insect proof

### SuperSense

V8 Series VRF uses up to 19 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** Oil balance pipes between gas-liquid separator ensure even oil distribution to keep compressors running normally.
- 4** The automatic oil return program determines the oil return through the running time and the oil discharge amount, enabling precise oil return.

### Heavy 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



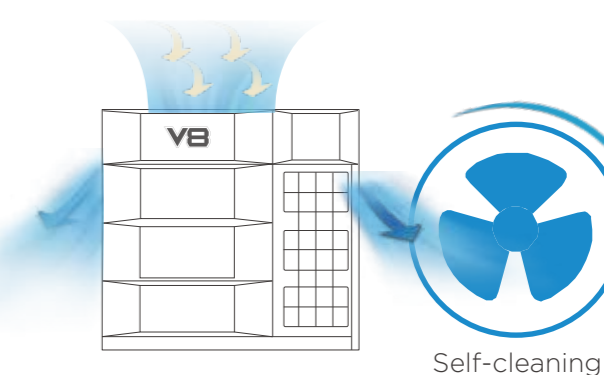
### Auto Snow-blowing Function

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



### Auto Dust-clean Function

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



### Resistant to Magnitude 8 Earthquakes\*

The V8 Series VRF has a reinforced frame footprint to prevent tipping and deformation damage and can still operate normally in magnitude 8 earthquakes.



\*This function is available as a customization option.

### Resistant to Violent Typhoons\*

The V8 Series VRF has reinforced trusses and double fastening for stable operation even under violent typhoons (Category 17).

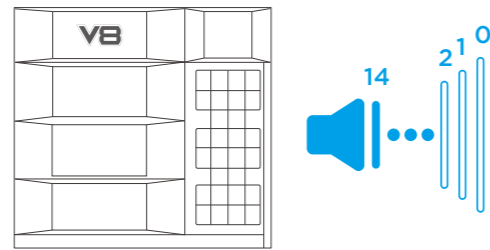


\*This function is available as a customization option.

# Enhanced Comfort

## Advanced Silent Technology

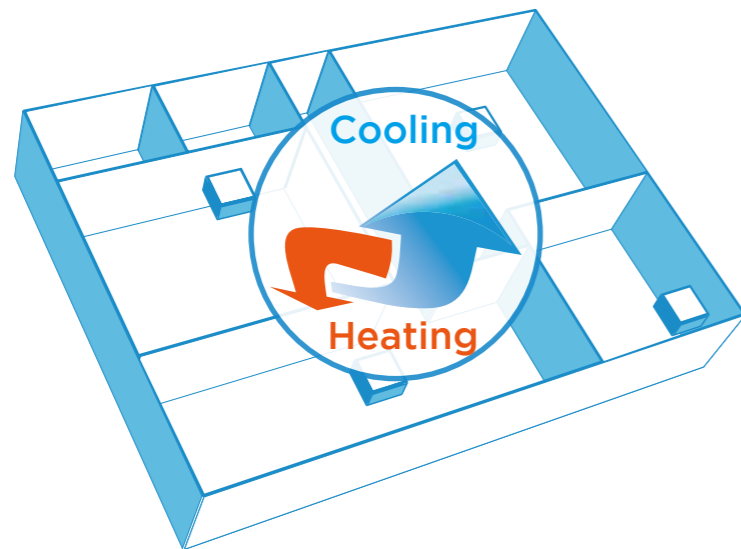
15-step silent mode provide more freedom and convenience to match the customer needs.



15 silent options

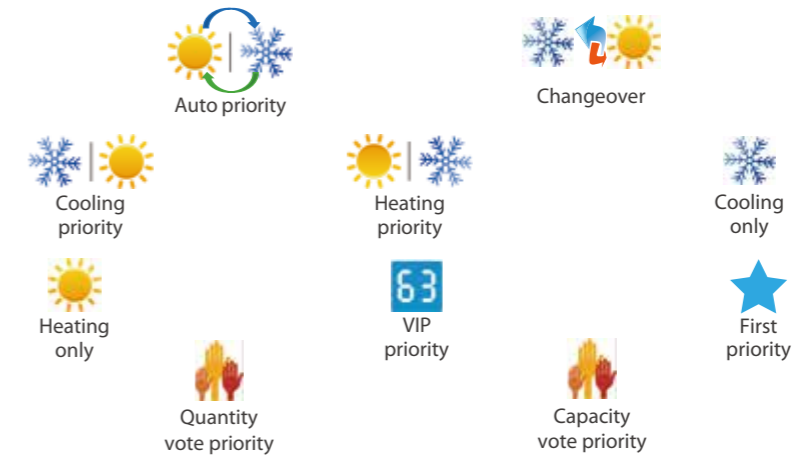
## Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.



## 10 Priority Modes

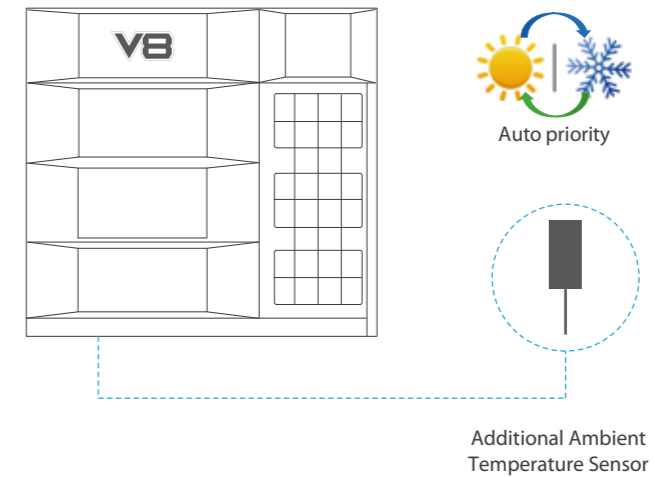
10 priority mode options provide more freedom and convenience to match the customer needs.



## Additional Ambient Temperature Sensor\*

The V8 Series VRF can be equipped with an additional external ambient temperature sensor to determine whether the system is operating in cooling or heating in auto priority mode. For some installations, the ambient temperature sensor fixed on the unit cannot detect the true ambient temperature, resulting in the system operating in an inappropriate mode and affecting indoor comfort. The external ambient temperature sensor can detect the true outdoor ambient temperature, and correctly judge whether the system is running in cooling or heating mode, ensuring indoor comfort.

\*This function is available as a customization option.



# Wide Application Range

## Wide Capacity Range

The V8 Series VRF are available in individual series and combinable series. The individual series has capacities from 8HP to 32HP and the combinable series from 8HP to 96HP, perfectly suited for small to large buildings.

### V8 - Combinable Series

Single unit 8-16HP	Single unit 18-24HP	Single unit 26-32HP
Combined unit 34-64HP	Combined unit 66-96HP	

Note: Four unit combinations are possible for 8-24 HP models. For four unit combinations please contact Midea.

### V8i - Individual Series

Single unit 8-16HP	Single unit 18-24HP	Single unit 26-32HP
-----------------------	------------------------	------------------------

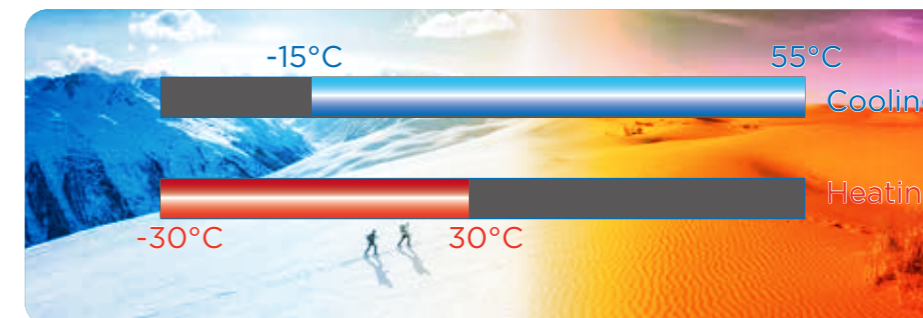
## Wide Range of Indoor Units

The V8 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.



## Wide Operation Range

Thanks to the EVI compressor and refrigerant cooling technology, the V8 Series VRF can operate at temperatures as low as -30°C for heating and up to 55°C for cooling.

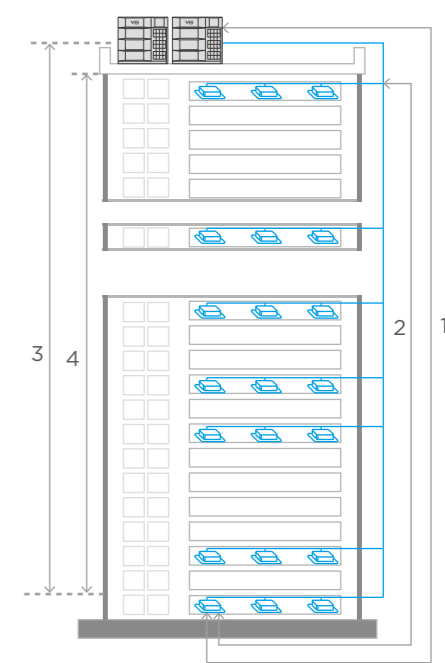


## Long Piping Capability

The V8 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 V8 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

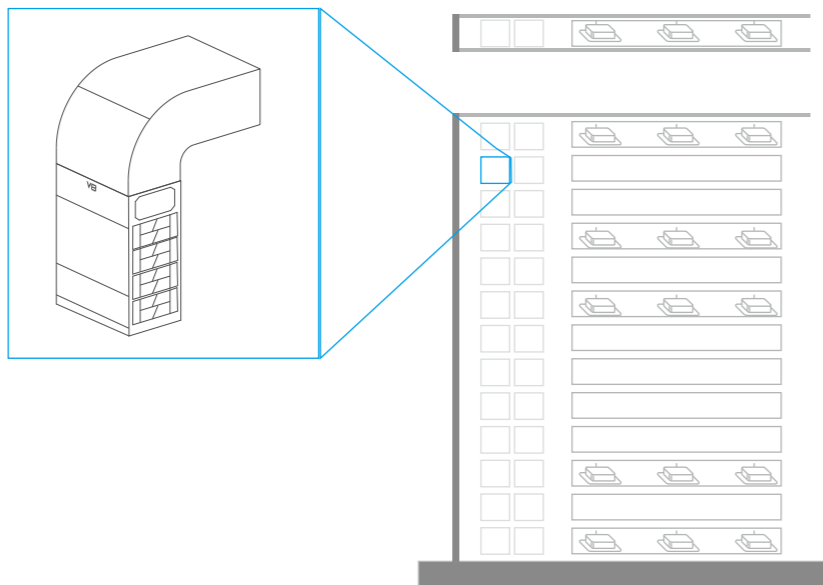
HyperLink communication technology supports any wiring pattern rather than just daisy chain connection, reducing the installation cost and the possibility of incorrect connection. It has stronger anti-interference ability, achieving a communication distance of up to 2000m.



## External Static Pressure up to 120Pa\*

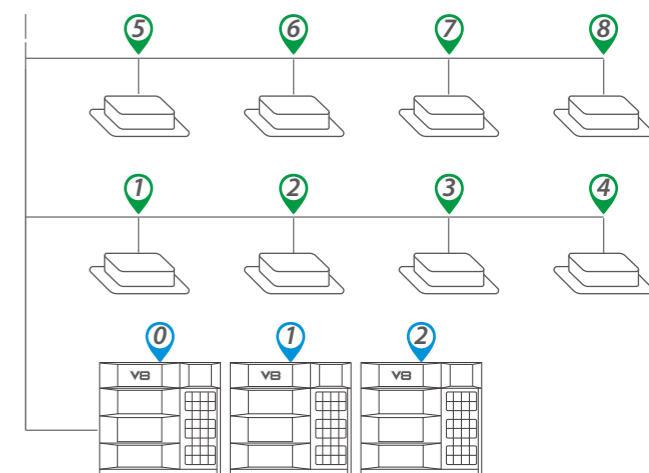
The static pressure of the outdoor unit can be up to 120Pa which facilitates installation of the unit on each floor of high-rise buildings or on balconies.

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



## Auto Addressing

Addresses for all indoor units and combined outdoor units can be assigned automatically by the V8 system, further simplifying installation.



## Automatic Refrigerant Charging\*

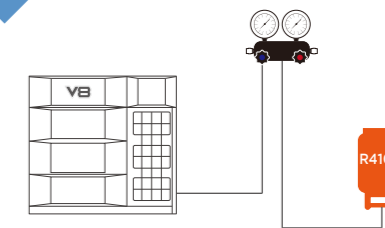
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

### 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

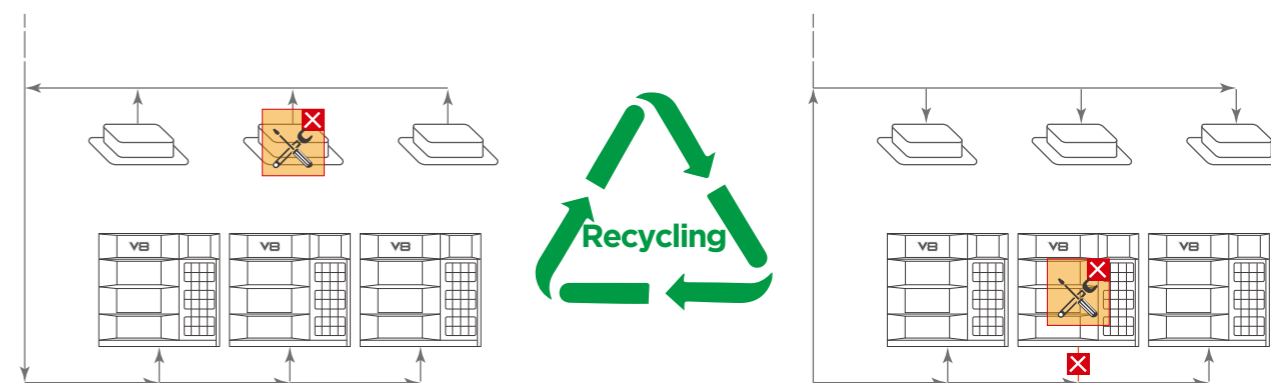
- 1 • Connect refrigerant tank to the outdoor unit & activate automatic charging function
- 2 • Close the shut-off valve automatically & finish the filling process



\*This function is available as a customization option.

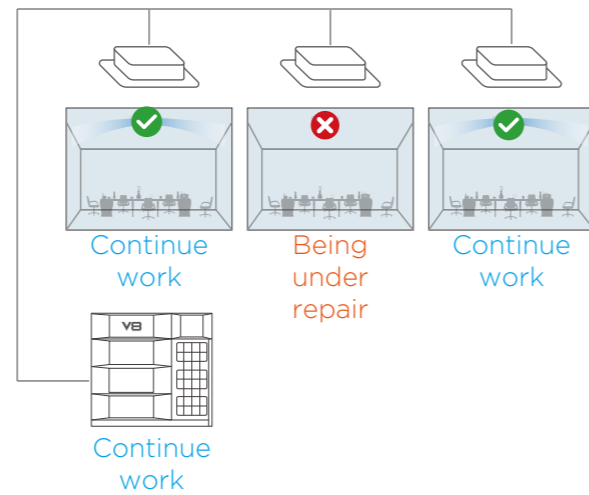
## Automatic Refrigerant Recycling

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.



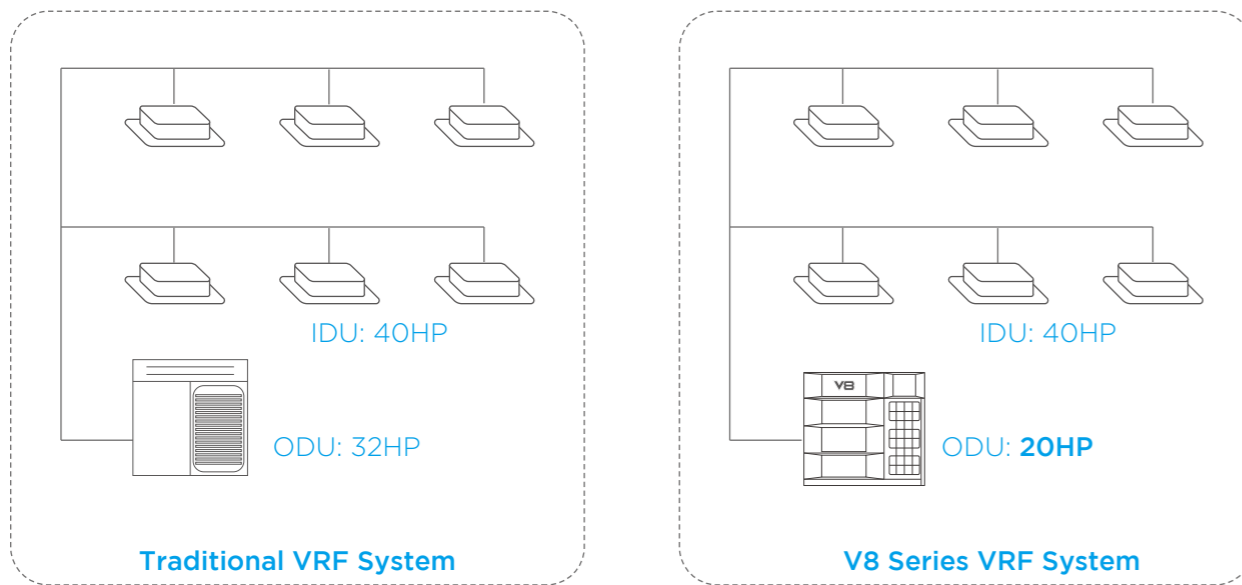
### Maintenance Mode

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.



### Wide Combination Ratio\*

Compared to traditional VRF with combination ratio of 50-130%, the V8 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 is still under development and needs to be purchased separately.

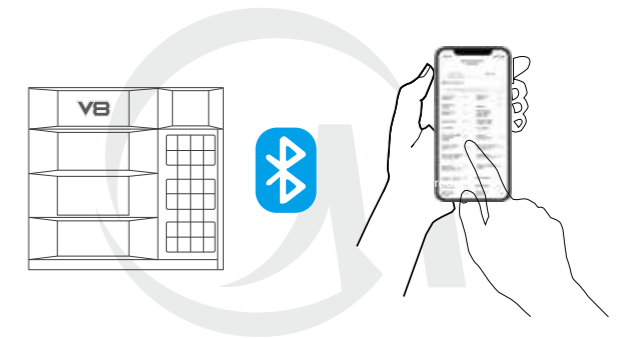


### Smart Commissioning/Maintenance Tool

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.

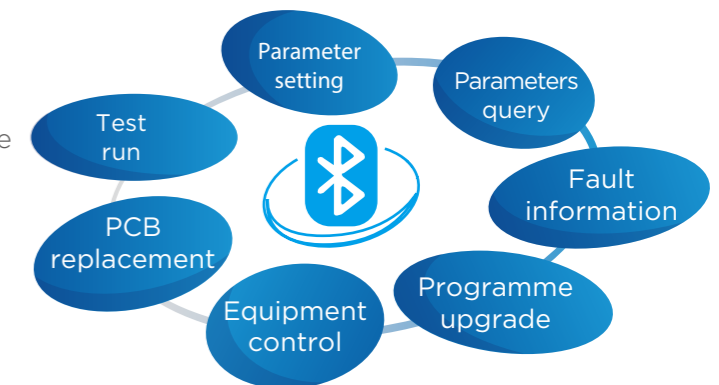
#### Useful in the following situations:

- 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

### V8 (Combinable series)

HP		8		10		12	
Model name		MV8-252WV2RN1E(PRO)		MV8-280WV2RN1E(PRO)		MV8-335WV2RN1E(PRO)	
Power supply	V/N/Hz			380-415/3/50			
Cooling Capacity <sup>1</sup>	kW	25.2	28.0	33.5			
	kBtu/h	85.9	95.5	114.2			
Heating Capacity <sup>2</sup> (Rated)	kW	25.2	28.0	33.5			
	kBtu/h	85.9	95.5	114.2			
Heating Capacity <sup>2</sup> (Max)	kW	27.0	31.5	37.5			
	kBtu/h	92.1	107.4	127.9			
SEER		7.21	6.82	6.32			
η <sub>s.c</sub>	%	285.4	269.8	249.8			
SCOP		4.08	4.07	4.09			
η <sub>s.h</sub>	%	160.2	159.8	160.6			
Connected indoor unit	Total capacity	50%-130%		50%-130%		50%-130%	
	Maximum quantity	13		16		19	
Compressors	Type	DC inverter		DC inverter		DC inverter	
	Quantity	1		1		1	
Fan motors	Type	DC		DC		DC	
	Quantity	1		1		1	
	Static pressure	Pa	0-20 (standard); 20-120 (customized)				
Airflow rate	m <sup>3</sup> /h	12600	12600	13500			
	Type	R410A		R410A		R410A	
Refrigerant	Factory charge	kg	7	7	7		
Pipe connections <sup>3</sup>	Liquid pipe	mm	Ø12.7	Ø12.7	Ø12.7		
	Gas pipe	mm	Ø25.4	Ø25.4	Ø25.4		
Sound pressure level <sup>4</sup>	dB(A)	58	58	61			
Sound power level <sup>4</sup>	dB(A)	83	84	85			
Net dimensions (W×H×D)	mm	940×1760×825	940×1760×825	940×1760×825			
Packed dimensions (W×H×D)	mm	1005×1945×890	1005×1945×890	1005×1945×890			
Net weight	kg	195	195	195			
Gross weight	kg	213	213	213			
Ambient temp. operation	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55		
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30		

HP		14		16		18	
Model name		MV8-400WV2RN1E(PRO)		MV8-450WV2RN1E(PRO)		MV8-500WV2RN1E(PRO)	
Power supply	V/N/Hz			380-415/3/50			
Cooling Capacity <sup>1</sup>	kW	40.0	45.0	50.0			
	kBtu/h	136.4	153.5	170.5			
Heating Capacity <sup>2</sup> (Rated)	kW	40.0	45.0	50.0			
	kBtu/h	136.4	153.5	170.5			
Heating Capacity <sup>2</sup> (Max)	kW	45.0	50.0	56.0			
	kBtu/h	153.5	170.5	191.0			
SEER		6.25	6.02	6.11			
η <sub>s.c</sub>	%	247.0	237.8	241.4			
SCOP		4.12	4.02	4.14			
η <sub>s.h</sub>	%	161.8	157.8	162.6			
Connected indoor unit	Total capacity	50%-130%		50%-130%		50%-130%	
	Maximum quantity	23		26		29	
Compressors	Type	DC inverter		DC inverter		DC inverter	
	Quantity	1		1		2	
Fan motors	Type	DC		DC		DC	
	Quantity	1		1		2	
	Static pressure	Pa	0-20 (standard); 20-120 (customized)				
Airflow rate	m <sup>3</sup> /h	15600	15600	22000			
	Type	R410A		R410A		R410A	
Refrigerant	Factory charge	kg	8.4	8.4	9.3		
Pipe connections <sup>3</sup>	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9		
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6		
Sound pressure level <sup>4</sup>	dB(A)	65	65	65			
Sound power level <sup>4</sup>	dB(A)	86	86	88			
Net dimensions (W×H×D)	mm	940×1760×825	940×1760×825	1340×1760×825			
Packed dimensions (W×H×D)	mm	1005×1945×890	1005×1945×890	1405×1945×890			
Net weight	kg	215	215	295			
Gross weight	kg	232	232	315			
Ambient temp. operation	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55		
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30		

#### Notes:

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

HP		20		22		24	
Model name		MV8-560WV2RN1E(PRO)		MV8-615WV2RN1E(PRO)		MV8-670WV2RN1E(PRO)	
Power supply	V/N/Hz			380-415/3/50			
Cooling Capacity <sup>1</sup>	kW	56.0	61.5	67.0			
	kBtu/h	191.0	209.7	228.5			
Heating Capacity <sup>2</sup> (Rated)	kW	56.0	61.5	67.0			
	kBtu/h	191.0	209.7	228.5			
Heating Capacity <sup>2</sup> (Max)	kW	63.0	69.0	75.0			
	kBtu/h	214.8	235.3	255.8			
SEER		6.00	5.93	5.98			
η <sub>s.c</sub>	%	237.0	234.2	236.2			
SCOP		4.03	4.21	4.08			
η <sub>s.h</sub>	%	158.2	165.4	160.2			
Connected indoor unit	Total capacity	50%-130%		50%-130%		50%-130%	
	Maximum quantity	33		36		39	
Compressors	Type	DC inverter		DC inverter		DC inverter	
	Quantity	2		2		2	
Fan motors	Type	DC		DC		DC	
	Quantity	2		2		2	
	Static pressure	Pa	0-20 (standard); 20-120 (customized)				
Airflow rate	m <sup>3</sup> /h	22000	21500	21500			
	Type	R410A		R410A		R410A	
Refrigerant	Factory charge	kg	9.3	11.96	11.96		
Pipe connections <sup>3</sup>	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9		
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6		
Sound pressure level <sup>4</sup>	dB(A)	66	66	67			
Sound power level <sup>4</sup>	dB(A)	89	89	92			
Net dimensions (W×H×D)	mm	1340×1760×825	1340×1760×825	1340×1760×825			
Packed dimensions (W×H×D)	mm	1405×1945×890	1405×1945×890	1405×1945×890			
Net weight	kg	295	315	315			
Gross weight	kg	315	335	335			
Ambient temp. operation	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55		
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30		

HP		26		28		30		32	
Model name		MV8-730WV2RN1E(PRO)		MV8-785WV2RN1E(PRO)		MV8-850WV2RN1E(PRO)		MV8-900WV2RN1E(PRO)	
Power supply	V/N/Hz			380-415/3/50					
Cooling Capacity <sup>1</sup>	kW	73.0	78.5	85.0	90.0				
	kBtu/h	248.9	267.7	289.9	306.9				
Heating Capacity <sup>2</sup> (Rated)	kW	73.0	78.5	85.0	90.0				
	kBtu/h	248.9	267.7	289.9	306.9				
Heating Capacity <sup>2</sup> (Max)	kW	81.5	87.5	95.0	100.0				
	kBtu/h	277.9	298.4	324.0	341.0				
SEER		5.68	5.93	5.81	5.75				
η <sub>s.c</sub>	%	224.2	234.2	229.4	227.0				
SCOP		4.15	4.12	4.00	3.95				
η <sub>s.h</sub>	%	163.0	161.8	157.0	155.0				
Connected indoor unit	Total capacity	50%-130%		50%-130%		50%-130%		50%-130%	
	Maximum quantity	43		46		50		53	
Compressors	Type	DC inverter		DC inverter		DC inverter		DC inverter	
	Quantity	2		2		2		2	
Fan motors	Type	DC		DC		DC		DC	
	Quantity	2		2		2		2	
	Static pressure	Pa	0-20 (standard); 20-120 (customized)						
Airflow rate	m <sup>3</sup> /h	29000	28000	28000	28000				
	Type	R410A		R410A		R410A		R410A	
Refrigerant	Factory charge	kg	11.96	11.96	11.96	11.96			
Pipe connections <sup>3</sup>	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2			
	Gas pipe	mm	Ø31.8	Ø34.9	Ø34.9	Ø34.9			
Sound pressure level <sup>4</sup>	dB(A)	68	68	68	68				
Sound power level <sup>4</sup>	dB(A)	93	93	93	93				
Net dimensions (W×H×D)	mm	1880×1760×825	1880×1760×825	1880×1760×825	1880×1760×825				
Packed dimensions (W×H×D)	mm	1945×1945×890	1945×1945×890	1945×1945×890	1945×1945×890				
Net weight	kg	366	396	396	396				
Gross weight	kg	396	426	426	426				
Ambient temp. operation	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55			
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30			

#### Notes:

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

## V8 (Combinable series)

HP	34		36	
Model name (Combination unit)	MV8-960WV2RN1E(PRO)		MV8-1010WV2RN1E(PRO)	
Combination type	14HP+20HP		16HP+20HP	
Power supply	V/N/Hz	380-415/3/50	380-415/3/50	
Cooling Capacity <sup>1</sup>	kW	96.0	101.0	
	kBtu/h	327.4	344.4	
Heating Capacity <sup>2</sup> (Rated)	kW	96.0	101.0	
	kBtu/h	327.4	344.4	
Heating Capacity <sup>2</sup> (Max)	kW	108.0	113.0	
	kBtu/h	368.3	385.3	
SEER		6.10	6.01	
$\eta_{sc}$	%	241.0	237.4	
SCOP		4.07	4.02	
$\eta_{sh}$	%	159.8	157.8	
Connected indoor unit	Total capacity	50%-130%		50%-130%
	Maximum quantity	56		59
Compressors	Type	DC inverter		DC inverter
	Quantity	3		3
Fan motors	Type	DC		DC
	Quantity	3		3
	Static pressure	Pa	0-20 (standard); 20-120 (customized)	
Refrigerant	Airflow rate	m <sup>3</sup> /h	37600	
	Type		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	8.4+9.3	
	Liquid pipe	mm	Ø19.1	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø38.1	
			69	
Sound power level <sup>4</sup>			93	
Net dimensions (W×H×D)	mm	(940×1760×825)+(1340×1760×825)		(940×1760×825)+(1340×1760×825)
Packed dimensions (W×H×D)	mm	(1005×1945×890)+(1405×1945×890)		(1005×1945×890)+(1405×1945×890)
Net weight	kg	215+295		215+295
Gross weight	kg	232+315		232+315
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	
	Heating	°C(DB)	-30 to 30	

HP	38		40	
Model name (Combination unit)	MV8-1070WV2RN1E(PRO)		MV8-1120WV2RN1E(PRO)	
Combination type	14HP+24HP		16HP+24HP	
Power supply	V/N/Hz	380-415/3/50	380-415/3/50	
Cooling Capacity <sup>1</sup>	kW	107.0	112.0	
	kBtu/h	364.9	381.9	
Heating Capacity <sup>2</sup> (Rated)	kW	107.0	112.0	
	kBtu/h	364.9	381.9	
Heating Capacity <sup>2</sup> (Max)	kW	120.0	125.0	
	kBtu/h	409.2	426.3	
SEER		6.08	6.00	
$\eta_{sc}$	%	240.2	237.0	
SCOP		4.11	4.09	
$\eta_{sh}$	%	161.4	160.6	
Connected indoor unit	Total capacity	50%-130%		50%-130%
	Maximum quantity	62		64
Compressors	Type	DC inverter		DC inverter
	Quantity	3		3
Fan motors	Type	DC		DC
	Quantity	3		3
	Static pressure	Pa	0-20 (standard); 20-120 (customized)	
Refrigerant	Airflow rate	m <sup>3</sup> /h	37100	
	Type		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	8.4+11.96	
	Liquid pipe	mm	Ø19.1	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø38.1	
			69	
Sound power level <sup>4</sup>			93	
Net dimensions (W×H×D)	mm	(940×1760×825)+(1340×1760×825)		(940×1760×825)+(1340×1760×825)
Packed dimensions (W×H×D)	mm	(1005×1945×890)+(1405×1945×890)		(1005×1945×890)+(1405×1945×890)
Net weight	kg	215+315		215+315
Gross weight	kg	232+335		232+335
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	
	Heating	°C(DB)	-30 to 30	

## Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP	42		44	
Model name (Combination unit)	MV8-1170WV2RN1E(PRO)		MV8-1230WV2RN1E(PRO)	
Combination type	18HP+24HP		22HP+22HP	
Power supply	V/N/Hz	380-415/3/50	380-415/3/50	
Cooling Capacity <sup>1</sup>	kW	117.0	123.0	
	kBtu/h	399.0	419.4	
Heating Capacity <sup>2</sup> (Rated)	kW	117.0	123.0	
	kBtu/h	399.0	419.4	
Heating Capacity <sup>2</sup> (Max)	kW	131.0	138.0	
	kBtu/h	446.7	470.6	
SEER		6.02	5.93	
$\eta_{sc}$	%	237.8	234.2	
SCOP		4.11	4.21	
$\eta_{sh}$	%	161.4	165.4	
Connected indoor unit	Total capacity	50%-130%		50%-130%
	Maximum quantity	64		64
Compressors	Type	DC inverter		DC inverter
	Quantity	4		4
Fan motors	Type	DC		DC
	Quantity	4		4
	Static pressure	Pa	0-20 (standard); 20-120 (customized)	
Refrigerant	Airflow rate	m <sup>3</sup> /h	43500	
	Type		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	9.3+11.96	
	Liquid pipe	mm	Ø19.1	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø38.1	
			69	
Sound power level <sup>4</sup>			94	
Net dimensions (W×H×D)	mm	(1340×1760×825)×2		(1340×1760×825)×2
Packed dimensions (W×H×D)	mm	(1405×1945×890)×2		(1405×1945×890)×2
Net weight	kg	295+315		315×2
Gross weight	kg	315+335		335×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	
	Heating	°C(DB)	-30 to 30	

HP	46		48	
Model name (Combination unit)	MV8-1285WV2RN1E(PRO)		MV8-1340WV2RN1E(PRO)	
Combination type	22HP+24HP		24HP+24HP	
Power supply	V/N/Hz	380-415/3/50	380-415/3/50	
Cooling Capacity <sup>1</sup>	kW	128.5	134.0	
	kBtu/h	438.2	456.9	
Heating Capacity <sup>2</sup> (Rated)	kW	128.5	134.0	
	kBtu/h	438.2	456.9	
Heating Capacity <sup>2</sup> (Max)	kW	144.0	150.0	
	kBtu/h	491.0	511.5	
SEER		5.96	5.98	
$\eta_{sc}$	%	235.4	236.2	
SCOP		4.14	4.08	
$\eta_{sh}$	%	162.6	160.2	
Connected indoor unit	Total capacity	50%-130%		50%-130%
	Maximum quantity	64		64
Compressors	Type	DC inverter		DC inverter
	Quantity	4		4
Fan motors	Type	DC		DC
	Quantity	4		4
	Static pressure	Pa	0-20 (standard); 20-120 (customized)	
Refrigerant	Airflow rate	m <sup>3</sup> /h	43000	
	Type		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	11.96×2	
	Liquid pipe	mm	Ø19.1	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø38.1	
			70	
Sound power level <sup>4</sup>			94	
Net dimensions (W×H×D)	mm	(1340×1760×825)×2		(1340×1760×825)×2
Packed dimensions (W×H×D)	mm	(1405×1945×890)×2		(1405×1945×890)×2
Net weight	kg	315×2		315×2
Gross weight	kg	335×2		335×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	
	Heating	°C(DB)	-30 to 30	

## Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

## V8 (Combinable series)

HP	50		52	
Model name (Combination unit)	MV8-1400WV2RN1E(PRO)		MV8-1460WV2RN1E(PRO)	
Combination type	18HP+32HP		20HP+32HP	
Power supply	V/N/Hz	380-415/3/50	380-415/3/50	
Cooling Capacity <sup>1</sup>	kW	140.0	146.0	
	kBtu/h	477.4	497.9	
Heating Capacity <sup>2</sup> (Rated)	kW	140.0	146.0	
	kBtu/h	477.4	497.9	
Heating Capacity <sup>2</sup> (Max)	kW	156.0	163.0	
	kBtu/h	532.0	555.8	
SEER		5.88	5.87	
$\eta_{s,c}$	%	232.2	231.8	
SCOP		4.01	3.97	
$\eta_{s,h}$	%	157.4	155.8	
Connected indoor unit	Total capacity	50%-130%		50%-130%
	Maximum quantity	64		64
Compressors	Type	DC inverter		DC inverter
	Quantity	4		4
Fan motors	Type	DC		DC
	Quantity	4		4
	Static pressure	Pa	0-20 (standard); 20-120 (customized)	
Refrigerant	Airflow rate	m <sup>3</sup> /h	50000	
	Type		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	9.3+11.96	
	Liquid pipe	mm	Ø19.1	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø38.1	
		dB(A)	70	
Sound power level <sup>4</sup>	dB(A)	94		95
Net dimensions (W×H×D)	mm	(1340×1760×825)+(1880×1760×825)		(1340×1760×825)+(1880×1760×825)
Packed dimensions (W×H×D)	mm	(1405×1945×890)+(1945×1945×890)		(1405×1945×890)+(1945×1945×890)
Net weight	kg	295+396		295+396
Gross weight	kg	315+426		315+426
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	
	Heating	°C(DB)	-30 to 30	

HP	58		60	
Model name (Combination unit)	MV8-1630WV2RN1E(PRO)		MV8-1685WV2RN1E(PRO)	
Combination type	26HP+32HP		28HP+32HP	
Power supply	V/N/Hz	380-415/3/50	380-415/3/50	
Cooling Capacity <sup>1</sup>	kW	163.0	168.5	
	kBtu/h	555.8	574.6	
Heating Capacity <sup>2</sup> (Rated)	kW	163.0	168.5	
	kBtu/h	555.8	574.6	
Heating Capacity <sup>2</sup> (Max)	kW	181.5	187.5	
	kBtu/h	618.9	639.4	
SEER		5.70	5.83	
$\eta_{s,c}$	%	225.0	230.2	
SCOP		4.04	4.03	
$\eta_{s,h}$	%	158.6	158.2	
Connected indoor unit	Total capacity	50%-130%		50%-130%
	Maximum quantity	64		64
Compressors	Type	DC inverter		DC inverter
	Quantity	4		4
Fan motors	Type	DC		DC
	Quantity	4		4
	Static pressure	Pa	0-20 (standard); 20-120 (customized)	
Refrigerant	Airflow rate	m <sup>3</sup> /h	57000	
	Type		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	11.96×2	
	Liquid pipe	mm	Ø19.1	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø41.3	
		dB(A)	71	
Sound power level <sup>4</sup>	dB(A)	96		96
Net dimensions (W×H×D)	mm	(1880×1760×825)×2		(1880×1760×825)×2
Packed dimensions (W×H×D)	mm	(1945×1945×890)×2		(1945×1945×890)×2
Net weight	kg	366+396		396×2
Gross weight	kg	396+426		426×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	
	Heating	°C(DB)	-30 to 30	

HP	54		56	
Model name (Combination unit)	MV8-1515WV2RN1E(PRO)		MV8-1570WV2RN1E(PRO)	
Combination type	22HP+32HP		24HP+32HP	
Power supply	V/N/Hz	380-415/3/50	380-415/3/50	
Cooling Capacity <sup>1</sup>	kW	151.5	157.0	
	kBtu/h	516.6	535.4	
Heating Capacity <sup>2</sup> (Rated)	kW	151.5	157.0	
	kBtu/h	516.6	535.4	
Heating Capacity <sup>2</sup> (Max)	kW	169.0	175.0	
	kBtu/h	576.3	596.8	
SEER		5.82	5.85	
$\eta_{s,c}$	%	229.8	231.0	
SCOP		4.05	4.00	
$\eta_{s,h}$	%	159.0	157.0	
Connected indoor unit	Total capacity	50%-130%		50%-130%
	Maximum quantity	64		64
Compressors	Type	DC inverter		DC inverter
	Quantity	4		4
Fan motors	Type	DC		DC
	Quantity	4		4
	Static pressure	Pa	0-20 (standard); 20-120 (customized)	
Refrigerant	Airflow rate	m <sup>3</sup> /h	49500	
	Type		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	11.96×2	
	Liquid pipe	mm	Ø19.1	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø38.1	
		dB(A)	70	
Sound power level <sup>4</sup>	dB(A)	95		96
Net dimensions (W×H×D)	mm	(1340×1760×825)+(1880×1760×825)		(1340×1760×825)+(1880×1760×825)
Packed dimensions (W×H×D)	mm	(1405×1945×890)+(1945×1945×890)		(1405×1945×890)+(1945×1945×890)
Net weight	kg	315+396		315+396
Gross weight	kg	335+426		335+426
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	
	Heating	°C(DB)	-30 to 30	

HP	62		64	
Model name (Combination unit)	MV8-1750WV2RN1E(PRO)		MV8-1800WV2RN1E(PRO)	
Combination type	30HP+32HP		32HP+32HP	
Power supply	V/N/Hz	380-415/3/50	380-415/3/50	
Cooling Capacity <sup>1</sup>	kW	175.0	180.0	
	kBtu/h	596.8	613.8	
Heating Capacity <sup>2</sup> (Rated)	kW	175.0	180.0	
	kBtu/h	596.8	613.8	
Heating Capacity <sup>2</sup> (Max)	kW	195.0	200.0	
	kBtu/h	665.0	682.0	
SEER		5.78	5.75	
$\eta_{s,c}$	%	228.2	227.0	
SCOP		3.97	3.95	
$\eta_{s,h}$	%	155.8	155.0	
Connected indoor unit	Total capacity	50%-130%		50%-130%
	Maximum quantity	64		64
Compressors	Type	DC inverter		DC inverter
	Quantity	4		4
Fan motors	Type	DC		DC
	Quantity	4		4
	Static pressure	Pa	0-20 (standard); 20-120 (customized)	
Refrigerant	Airflow rate	m <sup>3</sup> /h	56000	
	Type		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	11.96×2	
	Liquid pipe	mm	Ø19.1	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø41.3	
		dB(A)	71	
Sound power level <sup>4</sup>	dB(A)	96		96
Net dimensions (W×H×D)	mm	(1880×1760×825)×2		(1880×1760×825)×2
Packed dimensions (W×H×D)	mm	(1945×1945×890)×2		(1945×1945×890)×2
Net weight	kg	396×2		396×2
Gross weight	kg	426×2		426×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	
	Heating	°C(DB)	-30 to 30	

### Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

### Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

## V8 (Combinable series)

HP		66		68		
Model name (Combination unit)		MV8-1860WV2RN1E(PRO)		MV8-1910WV2RN1E(PRO)		
Combination type		14HP+20HP+32HP		16HP+20HP+32HP		
Power supply	V/N/Hz	380-415/3/50		380-415/3/50		
Cooling Capacity <sup>1</sup>	kW	186.0		191.0		
	kBtu/h	634.3		651.3		
Heating Capacity <sup>2</sup> (Rated)	kW	186.0		191.0		
	kBtu/h	634.3		651.3		
Heating Capacity <sup>2</sup> (Max)	kW	208.0		213.0		
	kBtu/h	709.3		726.3		
SEER		5.95		5.91		
$\eta_{sc}$	%	235.0		233.4		
SCOP		4.01		3.98		
$\eta_{sh}$	%	157.4		156.2		
Connected indoor unit	Total capacity	50%-130%		50%-130%		
	Maximum quantity	64		64		
Compressors	Type	DC inverter		DC inverter		
	Quantity	5		5		
Fan motors	Type	DC		DC		
	Quantity	5		5		
	Static pressure	Pa	0-20 (standard); 20-120 (customized)			
Refrigerant	Airflow rate	m <sup>3</sup> /h	65600		65600	
	Type		R410A		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	8.4+9.3+11.96		8.4+9.3+11.96	
	Liquid pipe	mm	Ø19.1		Ø22.2	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø41.3		Ø44.5	
		dB(A)	71		72	
Sound power level <sup>4</sup>		dB(A)	95		95	
Net dimensions (W×H×D)	mm	(940×1760×825)+(1340×1760×825)+(1880×1760×825)		(940×1760×825)+(1340×1760×825)+(1880×1760×825)		
Packed dimensions (W×H×D)	mm	(1005×1945×890)+(1405×1945×890)+(1945×1945×890)		(1005×1945×890)+(1405×1945×890)+(1945×1945×890)		
Net weight	kg	215+295+396		215+295+396		
Gross weight	kg	232+315+426		232+315+426		
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55		-15 to 55	
	Heating	°C(DB)	-30 to 30		-30 to 30	

HP		70		72		
Model name (Combination unit)		MV8-1970WV2RN1E(PRO)		MV8-2020WV2RN1E(PRO)		
Combination type		14HP+24HP+32HP		16HP+24HP+32HP		
Power supply	V/N/Hz	380-415/3/50		380-415/3/50		
Cooling Capacity <sup>1</sup>	kW	197.0		202.0		
	kBtu/h	671.8		688.8		
Heating Capacity <sup>2</sup> (Rated)	kW	197.0		202.0		
	kBtu/h	671.8		688.8		
Heating Capacity <sup>2</sup> (Max)	kW	220.0		225.0		
	kBtu/h	750.2		767.3		
SEER		5.92		5.89		
$\eta_{sc}$	%	233.8		232.6		
SCOP		4.04		4.02		
$\eta_{sh}$	%	158.6		157.8		
Connected indoor unit	Total capacity	50%-130%		50%-130%		
	Maximum quantity	64		64		
Compressors	Type	DC inverter		DC inverter		
	Quantity	5		5		
Fan motors	Type	DC		DC		
	Quantity	5		5		
	Static pressure	Pa	0-20 (standard); 20-120 (customized)			
Refrigerant	Airflow rate	m <sup>3</sup> /h	65100		65100	
	Type		R410A		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	8.4+11.96×2		8.4+11.96×2	
	Liquid pipe	mm	Ø22.2		Ø22.2	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø44.5		Ø44.5	
		dB(A)	72		72	
Sound power level <sup>4</sup>		dB(A)	96		96	
Net dimensions (W×H×D)	mm	(940×1760×825)+(1340×1760×825)+(1880×1760×825)		(940×1760×825)+(1340×1760×825)+(1880×1760×825)		
Packed dimensions (W×H×D)	mm	(1005×1945×890)+(1405×1945×890)+(1945×1945×890)		(1005×1945×890)+(1405×1945×890)+(1945×1945×890)		
Net weight	kg	215+315+396		215+315+396		
Gross weight	kg	232+335+426		232+335+426		
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55		-15 to 55	
	Heating	°C(DB)	-30 to 30		-30 to 30	

### Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP		74		76		
Model name (Combination unit)		MV8-2070WV2RN1E(PRO)		MV8-2130WV2RN1E(PRO)		
Combination type		18HP+24HP+32HP		22HP+22HP+32HP		
Power supply	V/N/Hz	380-415/3/50		380-415/3/50		
Cooling Capacity <sup>1</sup>	kW	207.0		213.0		
	kBtu/h	705.9		726.3		
Heating Capacity <sup>2</sup> (Rated)	kW	207.0		213.0		
	kBtu/h	705.9		726.3		
Heating Capacity <sup>2</sup> (Max)	kW	231.0		238.0		
	kBtu/h	787.7		811.6		
SEER		5.90		5.85		
$\eta_{sc}$	%	233.0		231.0		
SCOP		4.04		4.10		
$\eta_{sh}$	%	158.6		161.0		
Connected indoor unit	Total capacity	50%-130%		50%-130%		
	Maximum quantity	64		64		
Compressors	Type	DC inverter		DC inverter		
	Quantity	6		6		
Fan motors	Type	DC		DC		
	Quantity	6		6		
	Static pressure	Pa	0-20 (standard); 20-120 (customized)			
Refrigerant	Airflow rate	m <sup>3</sup> /h	71500		71000	
	Type		R410A		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	9.3+11.96×2		11.96×3	
	Liquid pipe	mm	Ø22.2		Ø22.2	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø44.5		Ø44.5	
		dB(A)	72		72	
Sound power level <sup>4</sup>		dB(A)	96		96	
Net dimensions (W×H×D)	mm	(1340×1760×825)×2+(1880×1760×825)		(1340×1760×825)×2+(1880×1760×825)		
Packed dimensions (W×H×D)	mm	(1405×1945×890)×2+(1945×1945×890)		(1405×1945×890)×2+(1945×1945×890)		
Net weight	kg	295+315+396		315×2+396		
Gross weight	kg	315+335+426		335×2+426		
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55		-15 to 55	
	Heating	°C(DB)	-30 to 30		-30 to 30	

HP		78		80		
Model name (Combination unit)		MV8-2185WV2RN1E(PRO)		MV8-2240WV2RN1E(PRO)		
Combination type		22HP+24HP+32HP		24HP+24HP+32HP		
Power supply	V/N/Hz	380-415/3/50		380-415/3/50		
Cooling Capacity <sup>1</sup>	kW	218.5		224.0		
	kBtu/h	745.1		763.8		
Heating Capacity <sup>2</sup> (Rated)	kW	218.5		224.0		
	kBtu/h	745.1		763.8		
Heating Capacity <sup>2</sup> (Max)	kW	244.0		250.0		
	kBtu/h	832.0		852.5		
SEER		5.87		5.89		
$\eta_{sc}$	%	231.8		232.6		
SCOP		4.06		4.03		
$\eta_{sh}$	%	159.4		158.2		
Connected indoor unit	Total capacity	50%-130%		50%-130%		
	Maximum quantity	64		64		
Compressors	Type	DC inverter		DC inverter		
	Quantity	6		6		
Fan motors	Type	DC		DC		
	Quantity	6		6		
	Static pressure	Pa	0-20 (standard); 20-120 (customized)			
Refrigerant	Airflow rate	m <sup>3</sup> /h	71000		71000	
	Type		R410A		R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	11.96×3		11.96×3	
	Liquid pipe	mm	Ø22.2		Ø22.2	
Sound pressure level <sup>4</sup>	Gas pipe	mm	Ø44.5		Ø44.5	
		dB(A)	72		72	
Sound power level <sup>4</sup>		dB(A)	96		97	
Net dimensions (W×H×D)	mm	(1340×1760×825)×2+(1880×1760×825)		(1340×1760×825)×2+(1880×1760×825)		
Packed dimensions (W×H×D)	mm	(1405×1945×890)×2+(1945×1945×890)		(1405×1945×890)×2+(1945×1945×890)		
Net weight	kg	315×2+396		315×2+396		
Gross weight	kg	335×2+426		335×2+426		
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55		-15 to 55	
	Heating	°C(DB)	-30 to 30		-30 to 30	

### Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

## V8 (Combinable series)

HP		82		84	
Model name (Combination unit)		MV8-2300WV2RN1E(PRO)		MV8-2360WV2RN1E(PRO)	
Combination type		18HP+32HP+32HP		20HP+32HP+32HP	
Power supply		V/N/Hz 380-415/3/50		380-415/3/50	
Cooling Capacity <sup>1</sup>		kW		230.0	
		kBTu/h		784.3	
Heating Capacity <sup>2</sup> (Rated)		kW		230.0	
		kBTu/h		784.3	
Heating Capacity <sup>2</sup> (Max)		kW		256.0	
		kBTu/h		873.0	
SEER		5.85		5.83	
η <sub>s,c</sub>		%		231.0	
SCOP		3.99		3.96	
η <sub>s,h</sub>		%		156.6	
Connected indoor unit		Total capacity		50%-130%	
		Maximum quantity		64	
Compressors		Type		DC inverter	
		Quantity		6	
Fan motors		Type		DC	
		Quantity		6	
Refrigerant		Static pressure		Pa	
		Airflow rate		m <sup>3</sup> /h	
Pipe connections <sup>3</sup>		Type		R410A	
		Factory charge		kg	
Sound pressure level <sup>4</sup>		dB(A)		72	
		dB(A)		97	
Net dimensions (W×H×D)		mm		(1340×1760×825)+(1880×1760×825)×2	
Packed dimensions (W×H×D)		mm		(1405×1945×890)+(1945×1945×890)×2	
Net weight		kg		295+396×2	
Gross weight		kg		315+426×2	
Ambient temp. operation range		Cooling °C(DB)		-15 to 55	
		Heating °C(DB)		-30 to 30	

HP		86		88	
Model name (Combination unit)		MV8-2415WV2RN1E(PRO)		MV8-2470WV2RN1E(PRO)	
Combination type		22HP+32HP+32HP		24HP+32HP+32HP	
Power supply		V/N/Hz 380-415/3/50		380-415/3/50	
Cooling Capacity <sup>1</sup>		kW		241.5	
		kBTu/h		823.5	
Heating Capacity <sup>2</sup> (Rated)		kW		241.5	
		kBTu/h		823.5	
Heating Capacity <sup>2</sup> (Max)		kW		269.0	
		kBTu/h		917.3	
SEER		5.79		5.81	
η <sub>s,c</sub>		%		228.6	
SCOP		4.01		3.98	
η <sub>s,h</sub>		%		157.4	
Connected indoor unit		Total capacity		50%-130%	
		Maximum quantity		64	
Compressors		Type		DC inverter	
		Quantity		6	
Fan motors		Type		DC	
		Quantity		6	
Refrigerant		Static pressure		Pa	
		Airflow rate		m <sup>3</sup> /h	
Pipe connections <sup>3</sup>		Type		R410A	
		Factory charge		kg	
Sound pressure level <sup>4</sup>		dB(A)		72	
		dB(A)		97	
Net dimensions (W×H×D)		mm		(1340×1760×825)+(1880×1760×825)×2	
Packed dimensions (W×H×D)		mm		(1405×1945×890)+(1945×1945×890)×2	
Net weight		kg		315+396×2	
Gross weight		kg		335+426×2	
Ambient temp. operation range		Cooling °C(DB)		-15 to 55	
		Heating °C(DB)		-30 to 30	

### Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP		90		92	
Model name (Combination unit)		MV8-2530WV2RN1E(PRO)		MV8-2585WV2RN1E(PRO)	
Combination type		26HP+32HP+32HP		28HP+32HP+32HP	
Power supply		V/N/Hz 380-415/3/50		380-415/3/50	
Cooling Capacity <sup>1</sup>		kW		253.0	
		kBTu/h		862.7	
Heating Capacity <sup>2</sup> (Rated)		kW		253.0	
		kBTu/h		862.7	
Heating Capacity <sup>2</sup> (Max)		kW		281.5	
		kBTu/h		959.9	
SEER		5.72		5.80	
η <sub>s,c</sub>		%		225.8	
SCOP		4.01		4.00	
η <sub>s,h</sub>		%		157.4	
Connected indoor unit		Total capacity		50%-130%	
		Maximum quantity		64	
Compressors		Type		DC inverter	
		Quantity		6	
Fan motors		Type		DC	
		Quantity		6	
Refrigerant		Static pressure		Pa	
		Airflow rate		m <sup>3</sup> /h	
Pipe connections <sup>3</sup>		Type		R410A	
		Factory charge		kg	
Sound pressure level <sup>4</sup>		dB(A)		73	
		dB(A)		98	
Net dimensions (W×H×D)		mm		(1880×1760×825)×3	
Packed dimensions (W×H×D)		mm		(1945×1945×890)×3	
Net weight		kg		366+396×2	
Gross weight		kg		396+426×2	
Ambient temp. operation range		Cooling °C(DB)		-15 to 55	
		Heating °C(DB)		-30 to 30	

HP		94		96	
Model name (Combination unit)		MV8-2650WV2RN1E(PRO)		MV8-2700WV2RN1E(PRO)	
Combination type		30HP+32HP+32HP		32HP+32HP+32HP	
Power supply		V/N/Hz 380-415/3/50		380-415/3/50	
Cooling Capacity <sup>1</sup>		kW		265.0	
		kBTu/h		903.7	
Heating Capacity <sup>2</sup> (Rated)		kW		265.0	
		kBTu/h		903.7	
Heating Capacity <sup>2</sup> (Max)		kW		295.0	
		kBTu/h		1006.0	
SEER		5.77		5.75	
η <sub>s,c</sub>		%		227.8	
SCOP		3.97		3.95	
η <sub>s,h</sub>		%		155.8	
Connected indoor unit		Total capacity		50%-130%	
		Maximum quantity		64	
Compressors		Type		DC inverter	
		Quantity		6	
Fan motors		Type		DC	
		Quantity		6	
Refrigerant		Static pressure		Pa	
		Airflow rate		m <sup>3</sup> /h	
Pipe connections <sup>3</sup>		Type		R410A	
		Factory charge		kg	
Sound pressure level <sup>4</sup>		dB(A)		73	
		dB(A)		98	
Net dimensions (W×H×D)		mm		(1880×1760×825)×3	
Packed dimensions (W×H×D)		mm		(1945×1945×890)×3	
Net weight		kg		396×3	
Gross weight		kg		426×3	
Ambient temp. operation range		Cooling °C(DB)		-15 to 55	
		Heating °C(DB)		-30 to 30	

### Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

## V8i (Individual series)

HP			8	10	12
Model name			MV8i-252WV2RN1E(PRO)	MV8i-280WV2RN1E(PRO)	MV8i-335WV2RN1E(PRO)
Power supply	V/N/Hz		380-415/3/50		
Cooling Capacity <sup>1</sup>	kW		25.2	28.0	33.5
	kBtu/h		85.9	95.5	114.2
Heating Capacity <sup>2</sup> (Rated)	kW		25.2	28.0	33.5
	kBtu/h		85.9	95.5	114.2
Heating Capacity <sup>2</sup> (Max)	kW		27.0	31.5	37.5
	kBtu/h		92.1	107.4	127.9
SEER			7.21	6.82	6.32
ηs.c	%		285.40	269.80	249.80
SCOP			4.08	4.07	4.09
ηs.h	%		160.20	159.80	160.60
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%
	Maximum quantity		13	16	19
Compressors	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan motors	Type		DC	DC	DC
	Quantity		1	1	1
	Static pressure	Pa	0-20 (standard); 20-120 (customized)		
	Airflow rate	m <sup>3</sup> /h	12600	12600	13500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	7	7	7
Pipe connections <sup>3</sup>	Liquid pipe	mm	Ø12.7	Ø12.7	Ø12.7
	Gas pipe	mm	Ø25.4	Ø25.4	Ø25.4
Sound pressure level <sup>4</sup>	dB(A)		58	58	61
Sound power level <sup>4</sup>	dB(A)		83	84	85
Net dimensions (W×H×D)	mm		940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)	mm		1005×1945×890	1005×1945×890	1005×1945×890
Net weight	kg		195	195	195
Gross weight	kg		213	213	213
Ambient temp. operation	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30

HP			14	16	18
Model name			MV8i-400WV2RN1E(PRO)	MV8i-450WV2RN1E(PRO)	MV8i-500WV2RN1E(PRO)
Power supply	V/N/Hz		380-415/3/50		
Cooling Capacity <sup>1</sup>	kW		40.0	45.0	50.0
	kBtu/h		136.4	153.5	170.5
Heating Capacity <sup>2</sup> (Rated)	kW		40.0	45.0	50.0
	kBtu/h		136.4	153.5	170.5
Heating Capacity <sup>2</sup> (Max)	kW		45.0	50.0	56.0
	kBtu/h		153.5	170.5	191.0
SEER			6.25	6.02	6.11
ηs.c	%		247.00	237.80	241.40
SCOP			4.12	4.02	4.14
ηs.h	%		161.80	157.80	162.60
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%
	Maximum quantity		23	26	29
Compressors	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	2
Fan motors	Type		DC	DC	DC
	Quantity		1	1	2
	Static pressure	Pa	0-20 (standard); 20-120 (customized)		
	Airflow rate	m <sup>3</sup> /h	15600	15600	22000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4	8.4	9.3
Pipe connections <sup>3</sup>	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6
Sound pressure level <sup>4</sup>	dB(A)		65	65	68
Sound power level <sup>4</sup>	dB(A)		86	86	88
Net dimensions (W×H×D)	mm		940×1760×825	940×1760×825	1340×1760×825
Packed dimensions (W×H×D)	mm		1005×1945×890	1005×1945×890	1405×1945×890
Net weight	kg		215	215	295
Gross weight	kg		232	232	315
Ambient temp. operation	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30

### Notes:

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

HP			20	22	24
Model name			MV8i-560WV2RN1E(PRO)	MV8i-615WV2RN1E(PRO)	MV8i-670WV2RN1E(PRO)
Power supply	V/N/Hz		380-415/3/50		
Cooling Capacity <sup>1</sup>	kW		56.0	61.5	67.0
	kBtu/h		191.0	209.7	228.5
Heating Capacity <sup>2</sup> (Rated)	kW		56.0	61.5	67.0
	kBtu/h		191.0	209.7	228.5
Heating Capacity <sup>2</sup> (Max)	kW		63.0	69.0	75.0
	kBtu/h		214.8	235.3	255.8
SEER			6.00	5.93	5.98
ηs.c	%		237.00	234.20	236.20
SCOP			4.03	4.21	4.08
ηs.h	%		158.20	165.40	160.20
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%
	Maximum quantity		33	36	39
Compressors	Type		DC inverter	DC inverter	DC inverter
	Quantity		2	2	2
Fan motors	Type		DC	DC	DC
	Quantity		2	2	2
	Static pressure	Pa	0-20 (standard); 20-120 (customized)		
	Airflow rate	m <sup>3</sup> /h	22000	21500	21500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	9.3	11.96	11.96
Pipe connections <sup>3</sup>	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6
Sound pressure level <sup>4</sup>	dB(A)		66	66	67
Sound power level <sup>4</sup>	dB(A)		89	89	92
Net dimensions (W×H×D)	mm		1340×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)	mm		1405×1945×890	1405×1945×890	1405×1945×890
Net weight	kg		295	315	315
Gross weight	kg		315	335	335
Ambient temp. operation	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30

HP			26	28	30	32
Model name			MV8i-730WV2RN1E(PRO)	MV8i-785WV2RN1E(PRO)	MV8i-850WV2RN1E(PRO)	MV8i-900WV2RN1E(PRO)
Power supply	V/N/Hz		380-415/3/50			
Cooling Capacity <sup>1</sup>	kW		73.0	78.5	85.0	90.0
	kBtu/h		248.9	267.7	289.9	306.9
Heating Capacity <sup>2</sup> (Rated)	kW		73.0	78.5	85.0	90.0
	kBtu/h		248.9	267.7	289.9	306.9
Heating Capacity <sup>2</sup> (Max)	kW		81.5	87.5	95.0	100.0
	kBtu/h		277.9	298.4	324.0	341.0
SEER			5.68	5.93	5.81	5.75
ηs.c	%		224.20	234.20	229.40	227.00
SCOP			4.15	4.12	4.00	3.95
ηs.h	%		163.00	161.80	157.00	155.00
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		43	46	50	53
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		2	2	2	2
	Static pressure	Pa	0-20 (standard); 20-120 (customized)			
	Airflow rate	m <sup>3</sup> /h	29000	28000	28000	28000
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	11.96	11.96	11.96	11.96
Pipe connections <sup>3</sup>	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2
	Gas pipe	mm	Ø31.8	Ø34.9	Ø34.9	Ø34.9
Sound pressure level <sup>4</sup>	dB(A)		68	68	68	68
Sound power level <sup>4</sup>	dB(A)		93	93	93	93
Net dimensions (W×H×D)	mm		1880×1760×825	1880×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)	mm		1945×1945×890	1945×1945×890	1945×1945×890	1945×1945×890
Net weight	kg		366	396	396	396
Gross weight	kg		396	426	426	426
Ambient temp. operation	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

### Notes:

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