

C-V8PRO202211

SMART IN ONE

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Midea Group

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

Midea 2023

V8 PRO Series
Catalogue



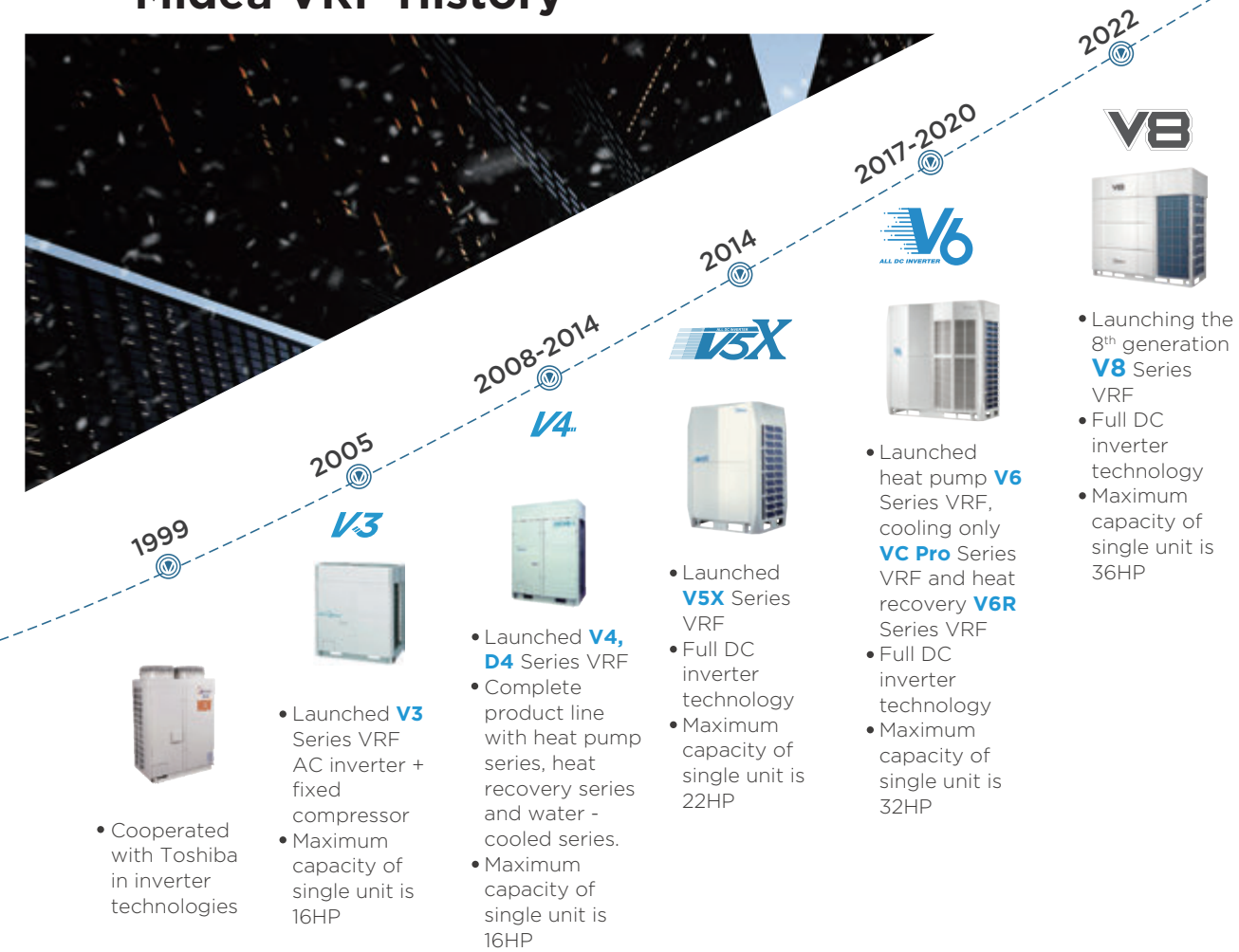
A L L D C I N V E R T E R V R F S Y S T E M

Midea MBT

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

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

Midea VRF History



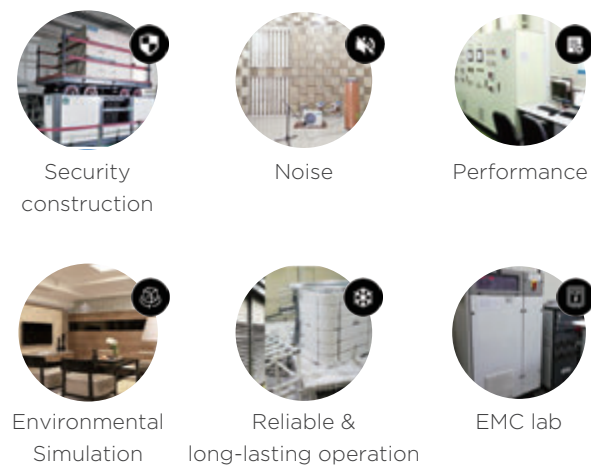
3 businesses constitute the significant components of Midea intelligent building solutions



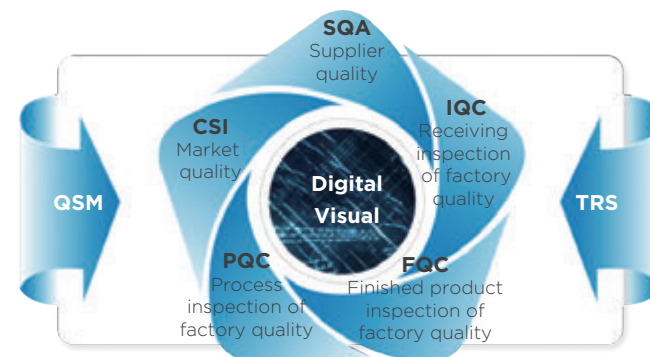
4 production bases can achieve fast delivery



Over 100 testing labs cover all different real application sceneries



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

Be it small or large sized, Midea VRF provides solution for all office buildings and its smart control solutions makes the management of VRF simple and easy whereas the wide variety of indoor units are suitable for all designs.



Residential Apartments

One for every home

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



Hotels & Shopping Malls

Increase your business, not your bills

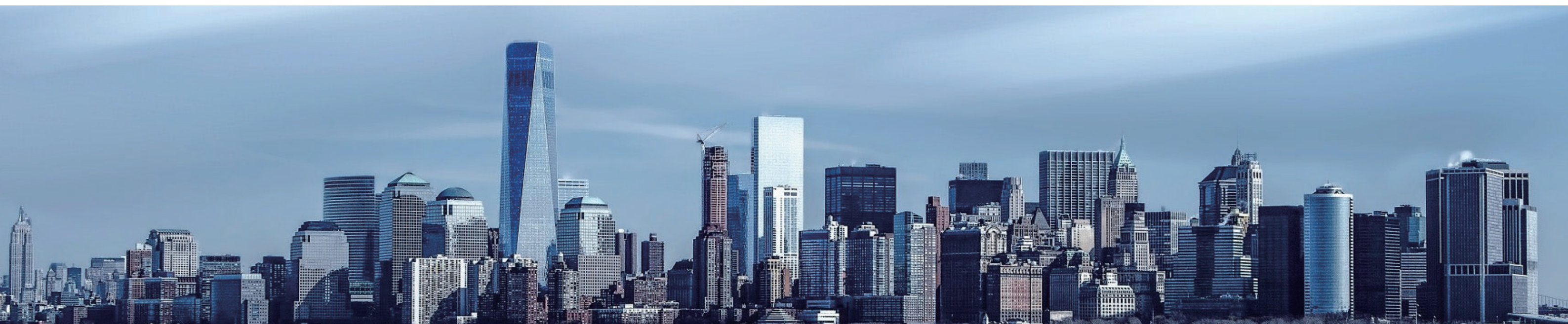
The high efficiency and reliability of Midea VRF makes it suitable to be used for all commercial applications. The intelligent control solutions like hotel key cards and touch screen controller makes the management easy.



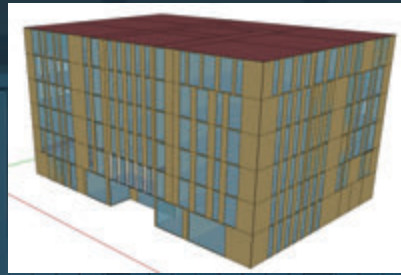
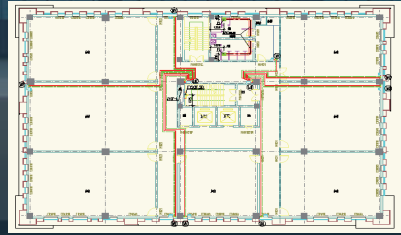
Hospitals/ Schools/ Airports

Meeting all expectations

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



Design Service

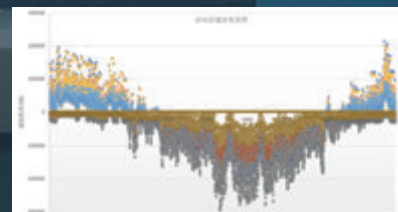


Energy Plus
Building load
calculation

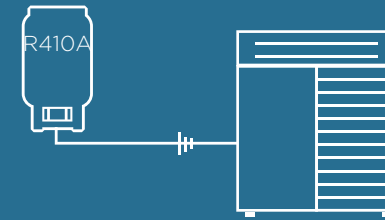


MSSP Online
VRF system design

BIM
building
information
import



Installation service

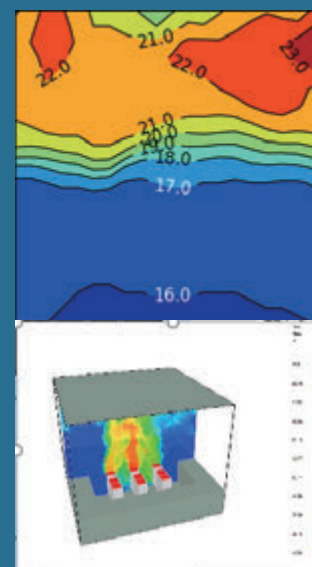


Automatic refrigerant
charge



Automatic commis-
sioning report

MCFD
Energy consumption
and airflow simulation
optimization



Management service



The probability of
Filtth blockage 80%



Degradation of energy
efficiency 25%

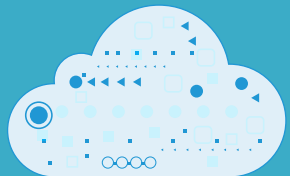
Continuous energy
saving service



After-sales service



Intelligent main-
tenance 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 provide professional technical support. Through TSP, you can inquire product information, documentation, spare parts and troubleshooting, initiate technical questions and quality complaint process, and also support self-service spare parts order.

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



My order

Inquire spare parts from exploded view and place spare parts order directly in TSP.

Document inquiry and download

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

Technical inquiry & FAQ

Initiate technical questions online, and our technicians answer them online in time. Find a quick solution in the FAQ.

Troubleshooting

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

Complain

Initiate the product quality complaint process online, and our after-sales engineers handle related complaints in time.

Mobile Intelligence Service App (MISA)

MISA is the mobile terminal of TSP, with the same functions as TSP. The mobile service makes technical support more timely and convenient.

<https://link.midea.com>



FAQ



Complain

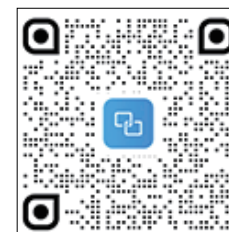


Technical Enquiry

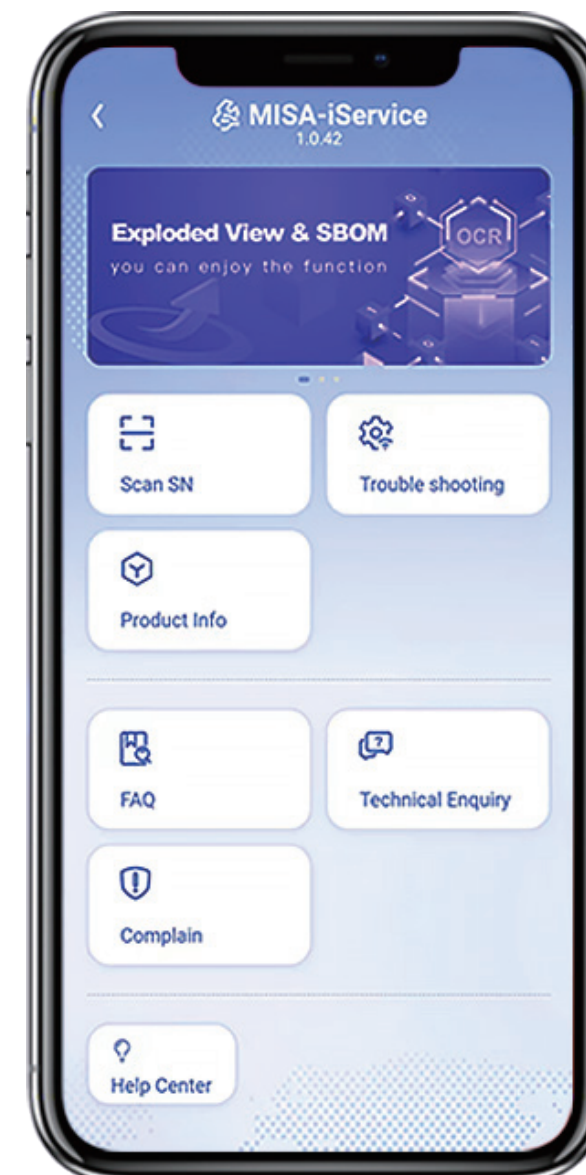


Trouble shooting

Download



Scan above to download the mobile app



Search product manuals



Spare Parts list

Feedback



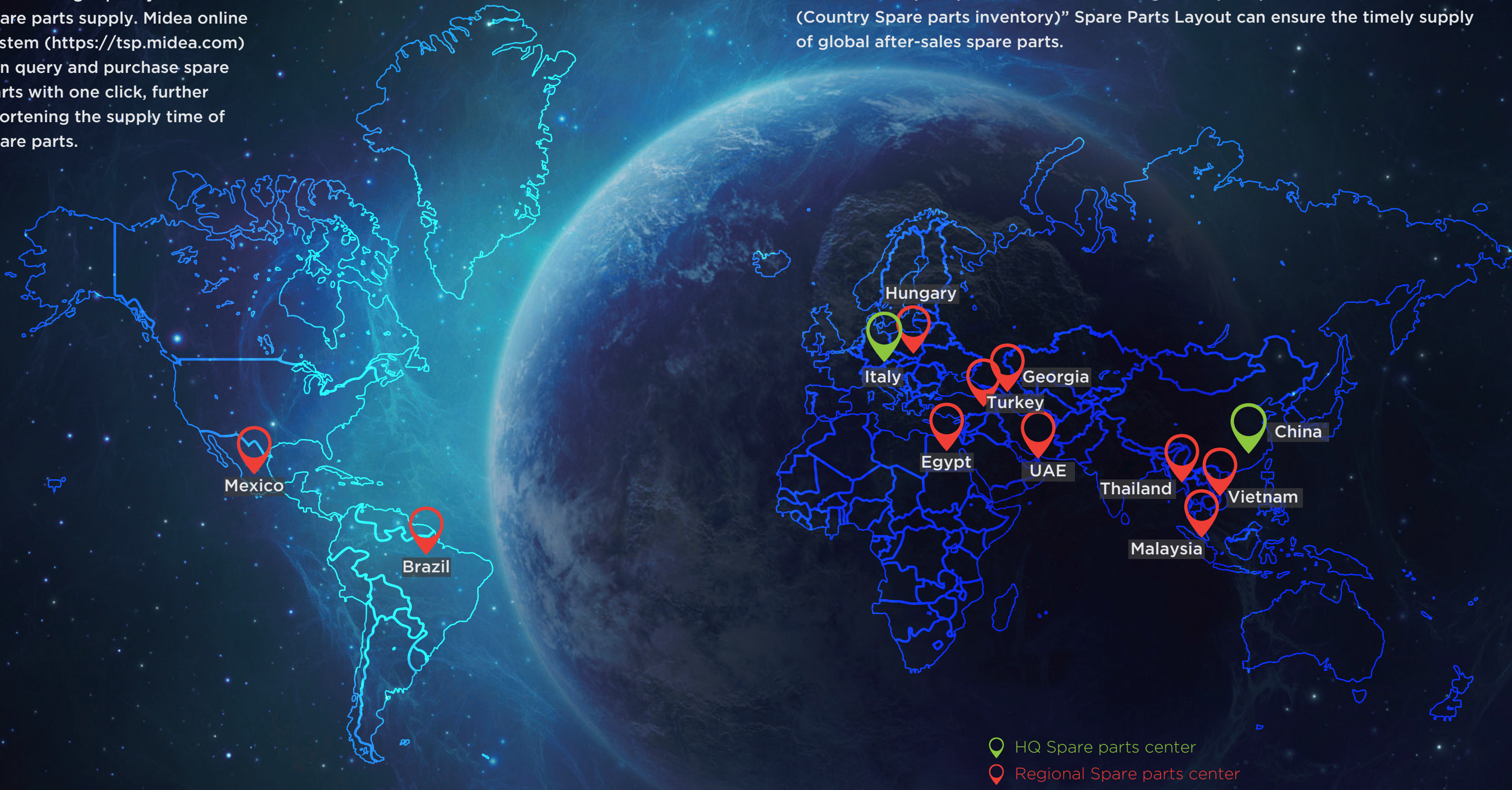
Thank you very much for your attention and advice



Midea Global Spare Parts Center

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

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 global after-sales spare parts.





V8 (Combinable series)

V8i (Individual series)



The V8 Series
VRF uses a variety of algorithms and self-learning technology to monitor the operation of the equipment through operating parameters and timely maintenance, so that the equipment always runs in optimal condition throughout its life cycle.

Outdoor Unit Lineup

V8 (Combinable series)

HP	8-18	20-26	28-36
Single Unit			

HP	38-72	74-108
Combined Unit		

Note: Four units combination are possible for the 8-24 HP models, for four units combination please contact Midea.

V8i (Individual series)

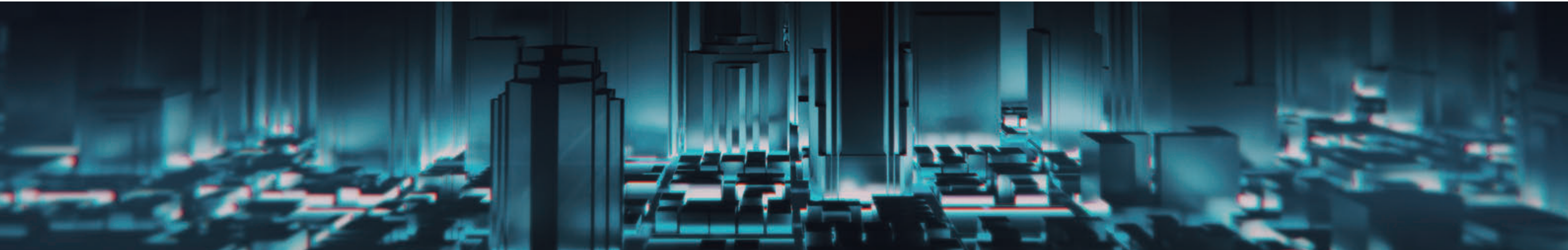
HP	8-18	20-26	28-36
Single Unit			



Outdoor Unit Functions

Functions			V8	V8i
●: equipped as standard; O: customization option; X: without this function				
Innovative Technologies	HyperLink	Midea original communication bus chip greatly simplifies installation and saves installation cost	●	●
	ShieldBox	IP55 Fully sealed electric control box realizes resisting all factors that cause intrusion and damage to the electric control box	●	●
	SuperSense	19 sensors achieves the state of each part of the refrigerant pipeline can be known in the whole process	●	●
	Meta 2.0	Triple variable control to maximize the comfort and energy efficiency	●	●
	Zen air 2.0	Provides comfort and healthy air supply	●	●
	Doctor M 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient	●	●
High Efficiency	Full DC inverter technology	All electrical components of outdoor and indoor units are DC power supply, improving electrical efficiency and achieving energy saving	●	●
	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 the sound	●	●
	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 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 unit)	●	X
	Duty cycling (compressor)	Equalizes the running time of the compressor in each unit, significantly extending compressor lifespan (available for unit with two compressors)	●	●

Functions			V8	V8i
●: equipped as standard; O: customization option; X: without this function				
High Reliability	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (available for combined unit)	●	X
	Backup operation (compressor)	If one compressor fails, the other compressor provide backup so that the system can continue operating (available for unit with two compressors)	●	●
	Backup operation (fan motor)	If one fan motor fails, the other fan motor provide backup so that the system can continue operating (available for unit with two fan motors)	●	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provide backup so that the system can continue operating	●	●
	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating any compressor oil shortage problems.	●	●
	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 the snow accumulating on the outdoor unit, guaranteeing the unit operating stable in snowy days	○	○
	Auto snow-blowing function	Blows away accumulated snow on the outdoor unit, guaranteeing the unit operating stable in snowy days	●	●
	Auto dust-clean function	Blows away accumulated dust on the outdoor unit, guaranteeing the unit operating stable in dusty environment	●	●
	Resistant to 8 intensity earthquake	A reinforced frame footprint to prevent tipping and deformation damage in a 8 intensity earthquake	○	○
	Resistant to violent typhoon	A reinforced trusses and double fastening for stable operation even under violent typhoon	○	○
	Alarm output	In case of system malfunction, remote output error information, remind maintenance personnel timely maintenance	●	●
	Fire alarm input	In case 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; O: customization option; X: without this function				
Enhanced Comfort	Silent mode	15-step silent mode selections provide more freedom and convenience to match the customer needs	●	●
	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 room temperature fluctuation	●	●
	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	8-36HP (single) 38-108HP (combined)	8-36HP
	Wide range of indoor units	Provides 12 types and more 100 models of VRF indoor units to meet 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 unit)	●	×

Functions			V8	V8i
●: equipped as standard; O: customization option; X: without this function				
Easy Installation And Service	Automatic refrigerant charging	Makes installation and service easier and more efficient	○	○
	Automatic refrigerant recycling	Refrigerant can recycle 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, indoor and outdoor units programme upgrade, etc., simplifying installation and maintenance.	○	○
	Digit display	4 digit 7-segment display can be intuitive for parameter setting, parameter check and error check	●	●
	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 ODU at the same time, central controller can connect to ODU or IDU	●	●
	Refrigerant amount diagnosis	The unit can diagnose excessive or insufficient amounts of refrigerant, 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 done 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 original communication bus chip greatly simplifies installation and saves installation cost.



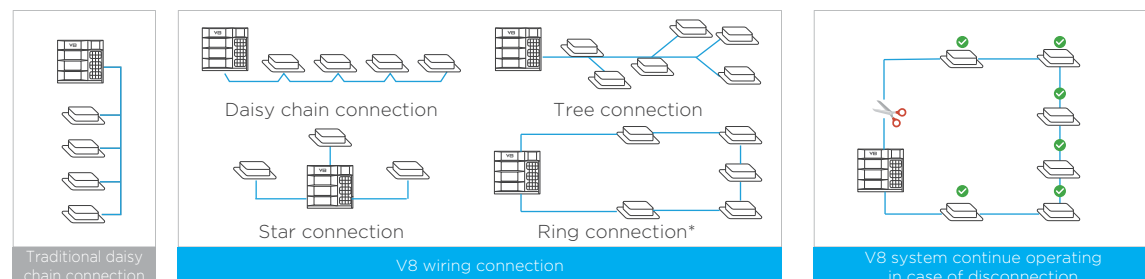
Benefits

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

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 communication distance up to 2000m.

Arbitrary Topology Communication

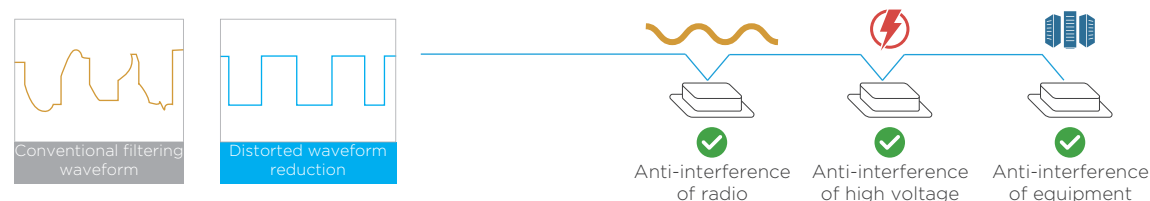
In addition to the traditional daisy chain connection, the communication wire supports tree connection, star connection, ring connection and so on. The wiring is flexible, which greatly reduces the installation cost and has no possibility of wrong connection on site.



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

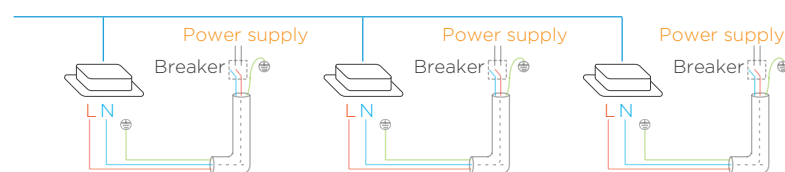
Super Anti-interference Capability

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



Flexible Power Supply for Indoor Units

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



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



Benefits

- High reliability
- Stable operation

■ IP (INGRESS PROTECTION)

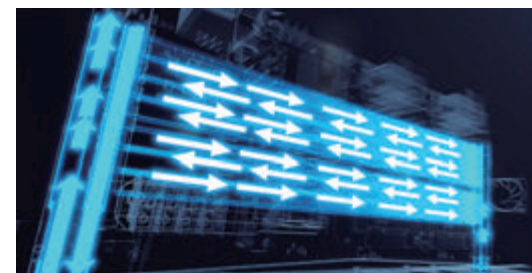
IP Dustproof grade code
Prevent entry foreign objects and dust

55 Waterproof grade code
Prevent water spray in all directions

Fully enclosed electronic components are isolated from the external environment to protect against corrosion, sand, humidity, snowstorm and other harsh conditions, and prevent small animals and insects from entering the chamber. To provide comprehensive protection for internal electronic devices, improve the overall environmental tolerance.

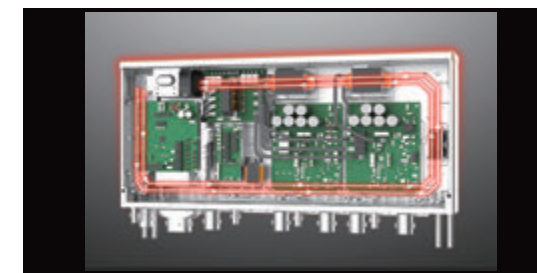
All Microchannel Refrigerant Cooling

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 is within the normal operating temperature range of electronic devices even in the low-temperature environment of -30°C.



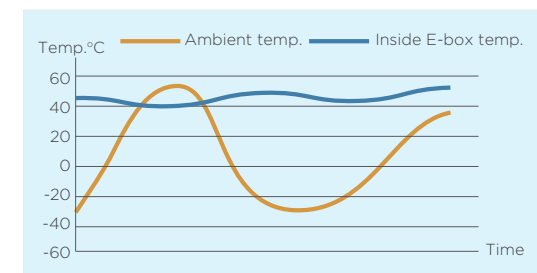
Built-in Circulating Fan

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.



SuperSense New & Unique

The status of the refrigerant is known anywhere throughout the process, ensuring high **RELIABILITY** and **COMFORT**.



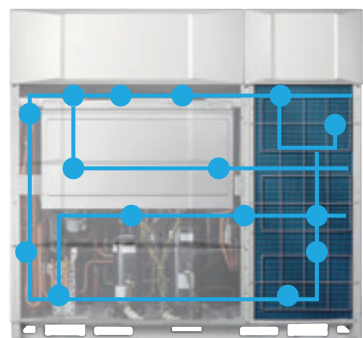
Benefits

- High reliability
- Stable operation
- Enhanced comfort

Up to 19 sensors are distributed throughout the refrigerant system, and the status of the refrigerant is known anywhere 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.

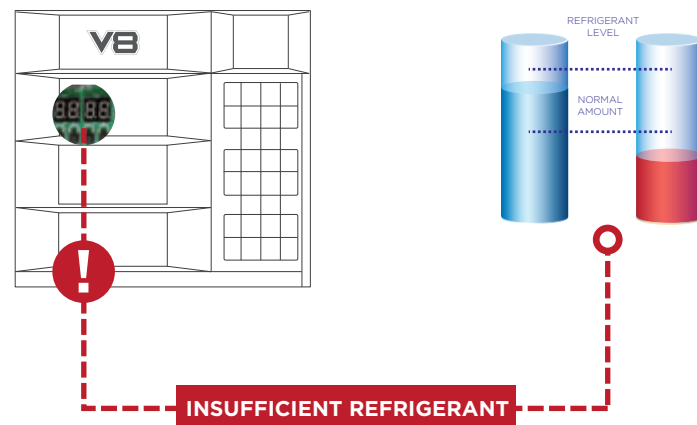
Complete Sensors

The V8 Series VRF has 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*

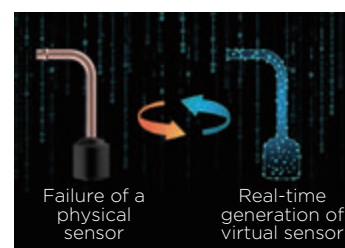
Thanks to the complete sensors, the refrigerant running state is clearly visible, so as to accurately diagnose the amount of refrigerant.



*This function is available at the end of July 2022.

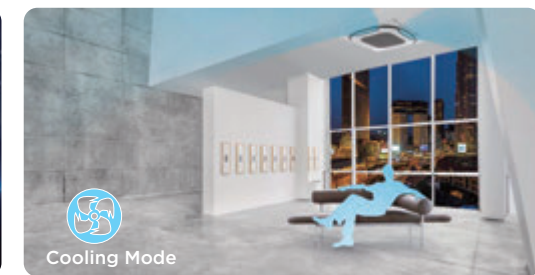
Virtual Sensor Backup

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.



Midea ETA (META) 2.0

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

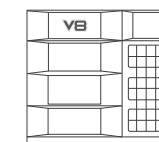
Built-in professional operation and maintenance algorithm, so that the annual operation energy efficiency of each set of systems increased by more than 28%.



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.



Refrigerant flow coordination



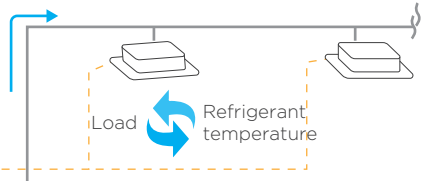
Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.



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.



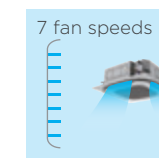
Automatic matching of the corresponding refrigerant temperature to the load.



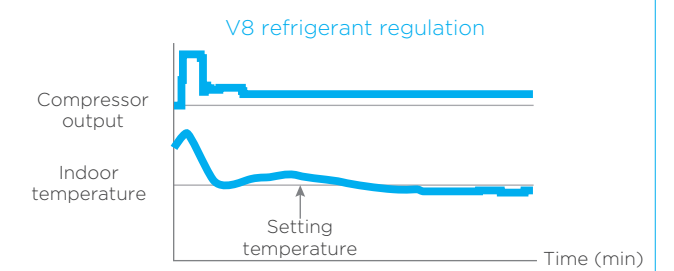
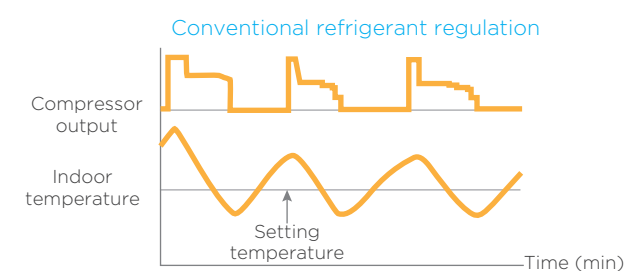
Variable Indoor Airflow

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**.



Benefits



Quiet



Enhanced comfort

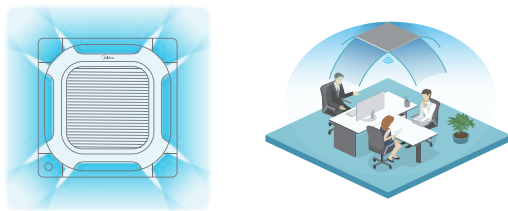


Healthy

0.5°C temperature adjustment, 7 fan speeds selection, sleep mode, silent mode, windless technology, high efficiency filter, a variety of sterilization device and other advanced technologies used in V8 Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

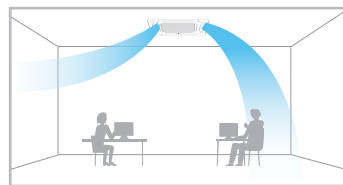
360° Airflow

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



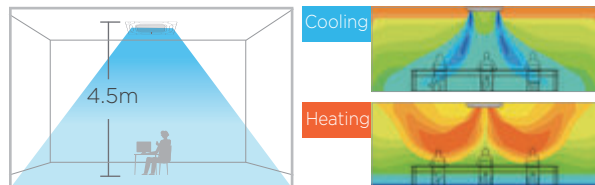
Individual Louver Control

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



Long Distance Air Delivery*

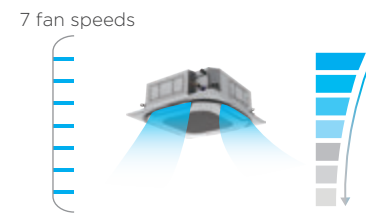
The Four-way Cassette has an additional 50Pa static pressure for long airflow delivery and is capable of being used in spaces up to 4.5m in floor height.



*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



1st The world's first air conditioning sterilization product certification
99.9% Effective killing rate of white grape fungus
99.9% Effective killing rate of H1N1
98% Effective killing rate of natural bacteria



Ozone -Free
UV leakage-Free

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

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. Intelligent Bluetooth module and special Bluetooth after-sales kit can further simplify maintenance and improve maintenance efficiency.

Intelligent Maintenance Tool

With 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 the needs of connecting PC or opening cabinet.



*The Bluetooth module is available as a customization option.

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.

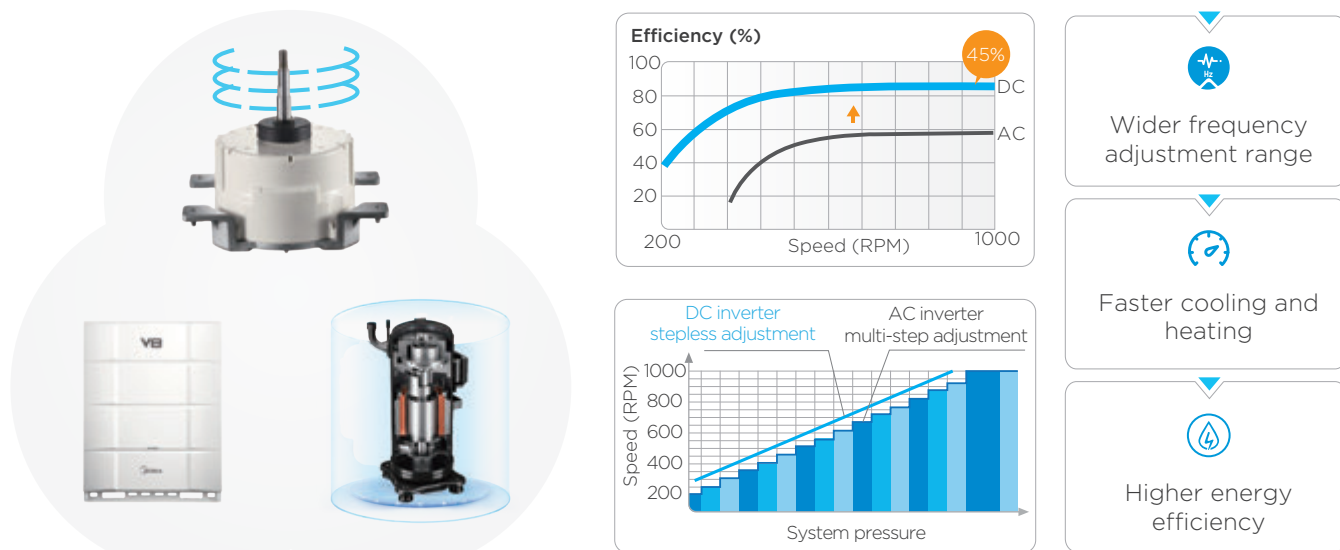


High Efficiency

Full DC Inverter Technology

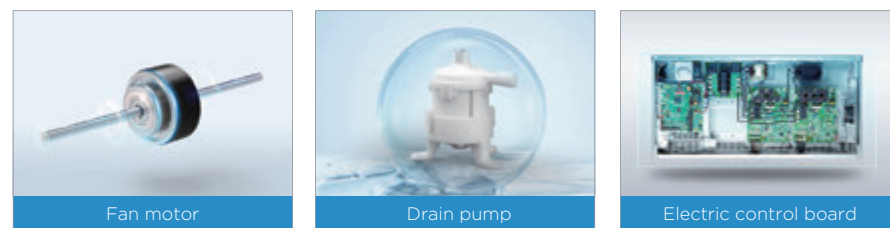
The V8 Series VRF uses full DC inverter compressor and fan motor to achieve high precision stepless speed adjustment according to system operation, and ensures that the system is always in optimum condition, operating more efficiently, more consistently and with less noise.

Full DC Inverter for Outdoor Components

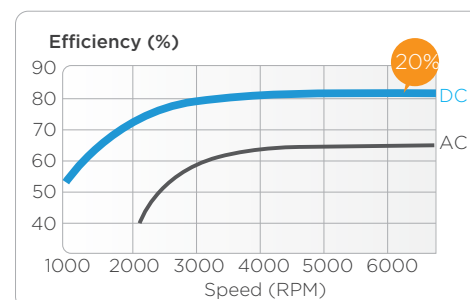
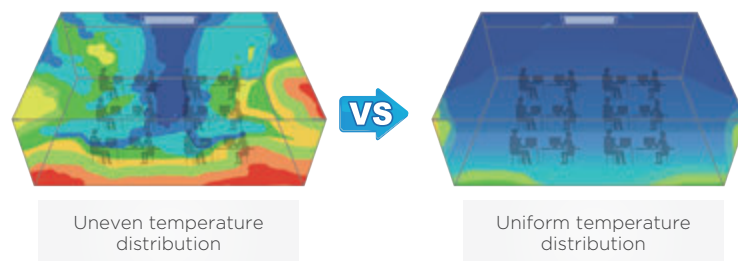


All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.

Full DC Inverter for Indoor Components

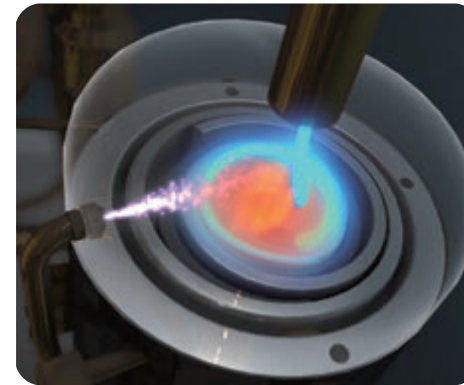


20%
Efficiency
improvements

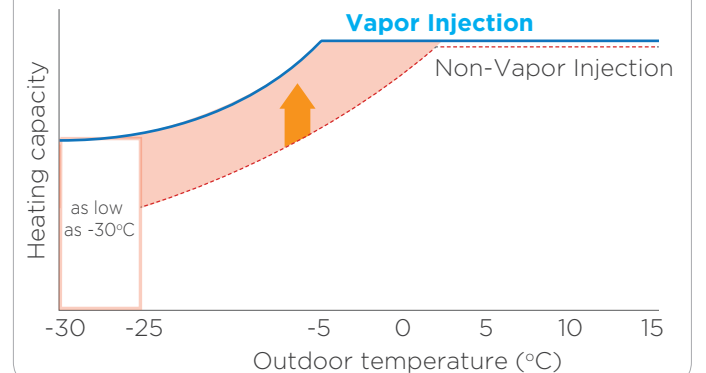


Enhanced Vapor Injection (EVI) Compressor

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

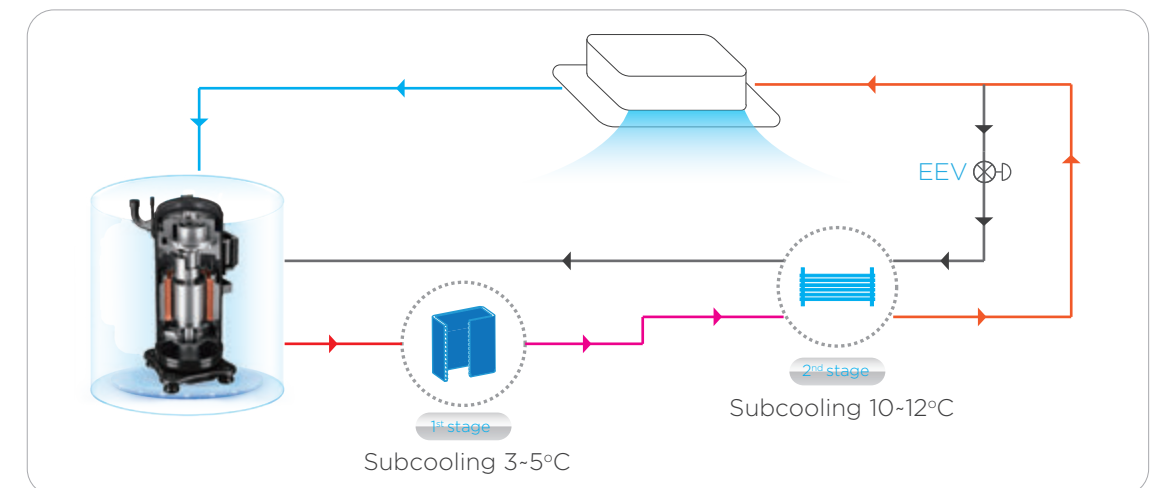


Performance Comparison



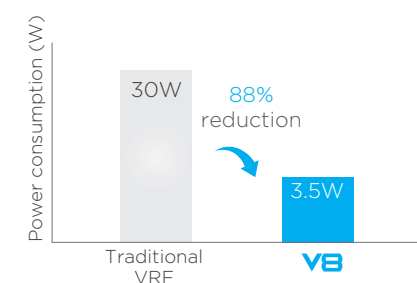
Advanced Subcooling Technology

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.



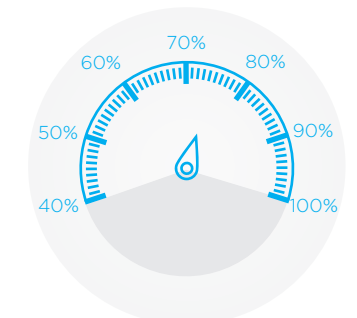
Low Standby Power Consumption

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 electricity supply restriction conditions and remains system continue to operate.



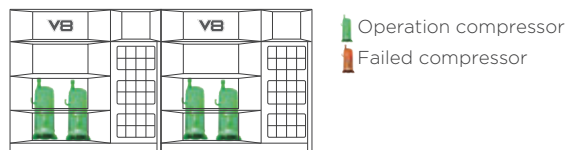
High Reliability

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



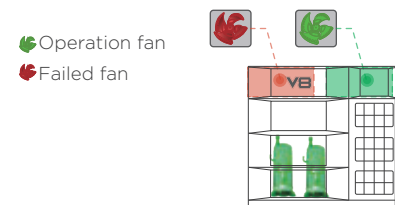
Continue operating in case of failure of one unit

2 Fan Backup

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



In normal operation, each fan runs on demand



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

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

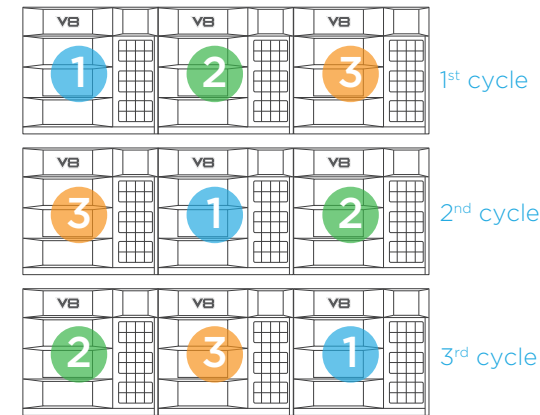


Automatic backup operation of the corresponding virtual sensor in case of failure of one physical sensor

Double Duty Cycling

1 Unit Duty Cycling

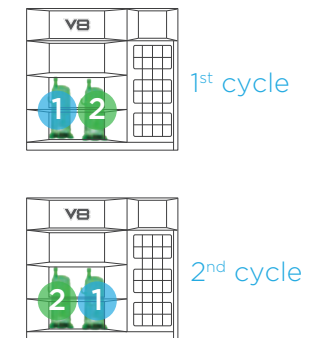
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



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.

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

ShieldBox

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



Anti-corrosion



Dustproof



Rain & snow proof



Insect proof

SuperSense

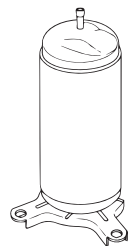
V8 Series VRF uses up to 19 sensors for each outdoor unit and 4 sensors for each indoor unit. The operating status of the system refrigerant is clearly visible, which can realize intelligent analysis of operation parameters, intelligent error diagnosis and forecasting, and visualized energy saving.



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



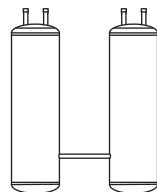
Compressor internal oil separation.

2



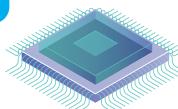
High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.

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*

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



*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



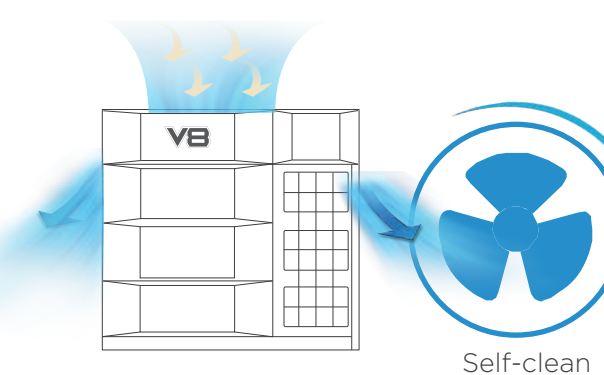
Auto Snow-blowing Function

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 8 Intensity Earthquake*

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



*This function is available as a customization option.

Resistant to Violent Typhoon*

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

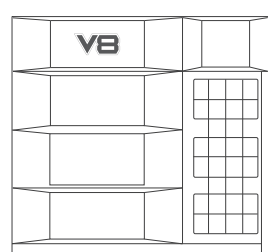


*This function is available as a customization option.

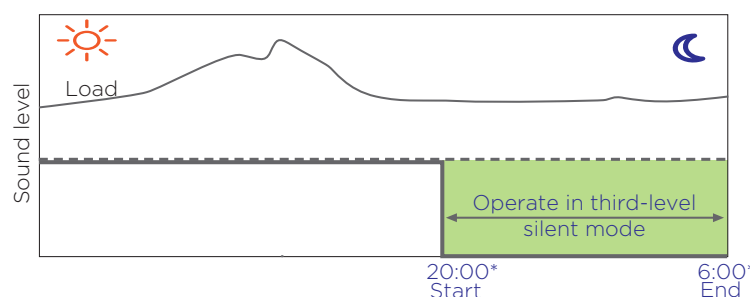
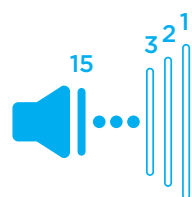
Enhanced Comfort

Advanced Silent Technology

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



15 silent options

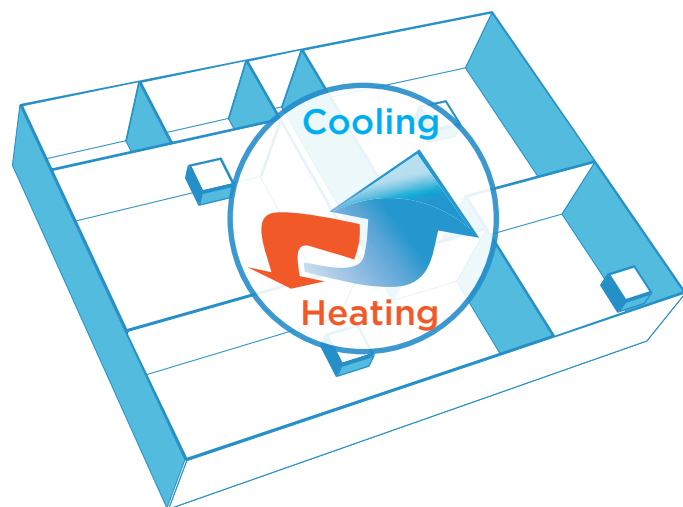


Night silent mode

*The entry and exit time of the night silent mode can be set in the wired controller.

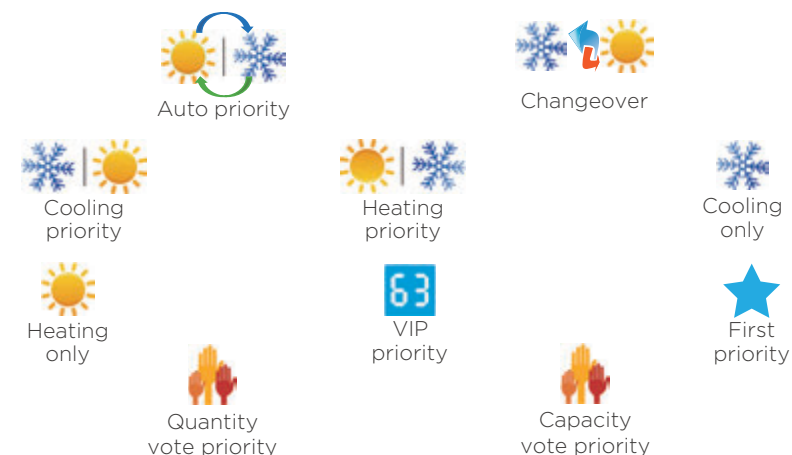
Auto Cooling-heating Changeover

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



10 Priority Modes

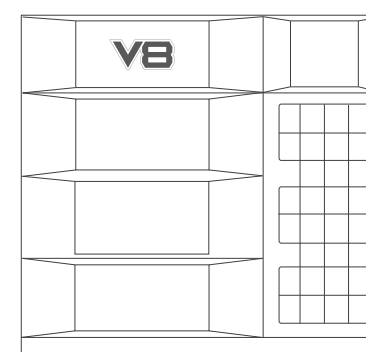
10 priority mode options provide more freedom and convenience to match the customer needs.



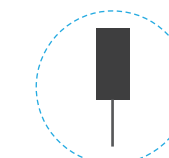
Additional Ambient Temperature Sensor*

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, correctly judge whether the system is running in cooling or heating, ensuring indoor comfort.

*This function is available as a customization option.



Auto priority



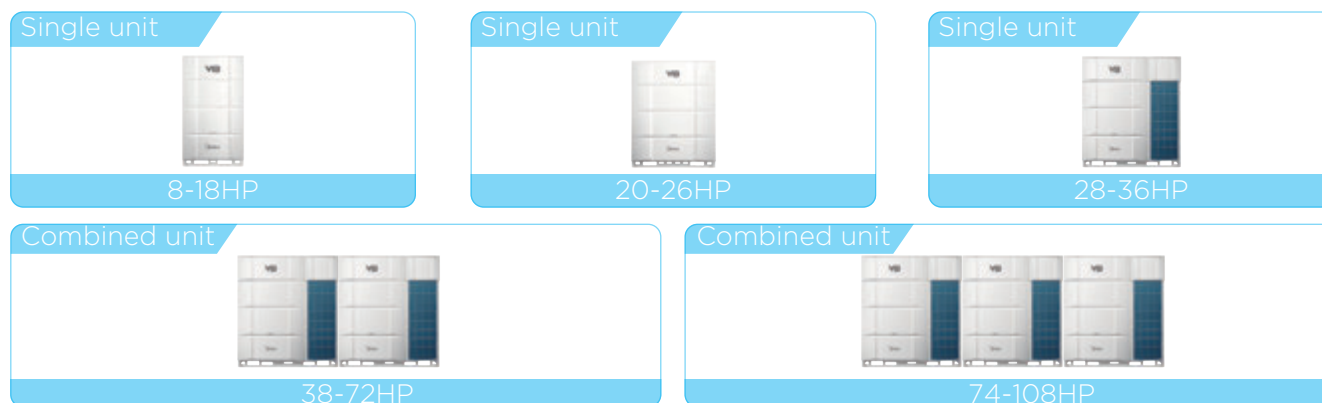
Additional Ambient Temperature Sensor

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 36HP and the combinable series from 8HP to 108HP, perfectly suited for small to large buildings.

V8 - Combinable Series



Note: Four units combination are possible for the 8-24 HP models, for four units combination please contact Midea.

V8i - Individual Series



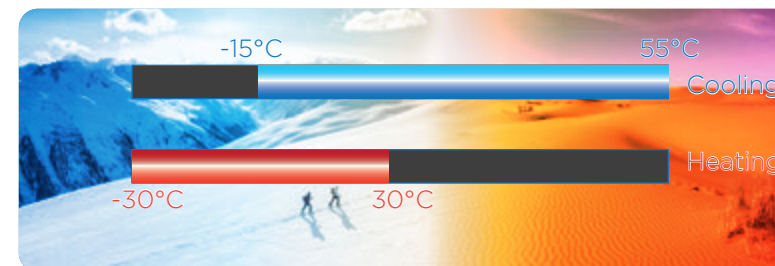
Wide Range of Indoor Units

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. It also supports continuous operation in temperatures up to 60°C to cope with short periods of extreme heat.

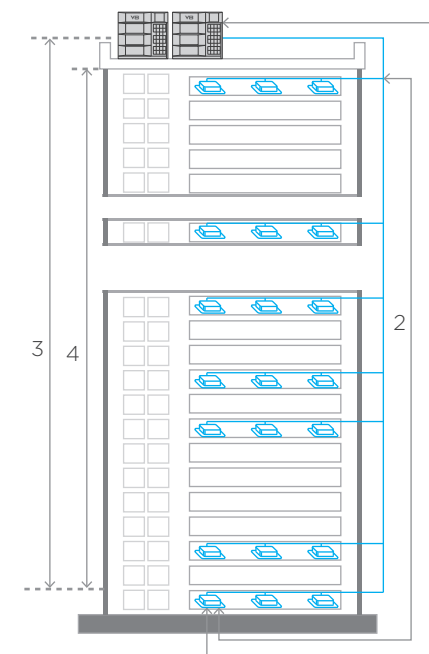


Long Piping Capability

The total piping length of the V8 system can be up to 1100m, the level difference between indoor and outdoor units can be up to 110m and the level difference between indoor units can be up to 40m, making the V8 Series VRF perfectly suitable for all buildings.

- 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**

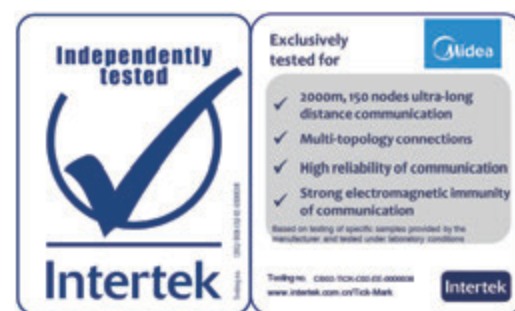
*The longest length after first branch is 40m as standard but can be extended to up to 120m under certain conditions. Please contact your local dealer for further information.



Easy Installation and Service

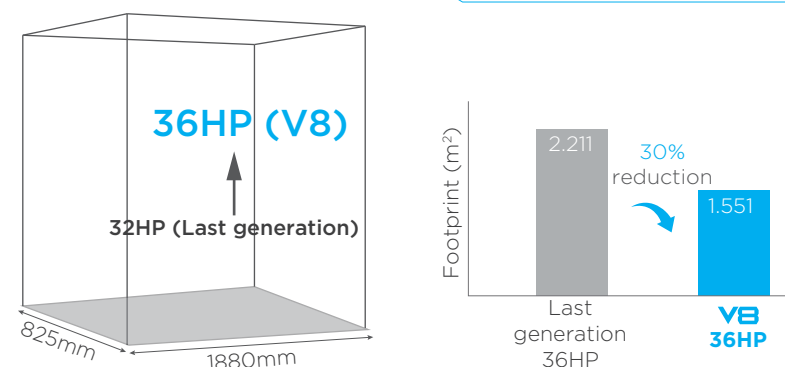
Free Wiring

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 communication distance up to 2000m.



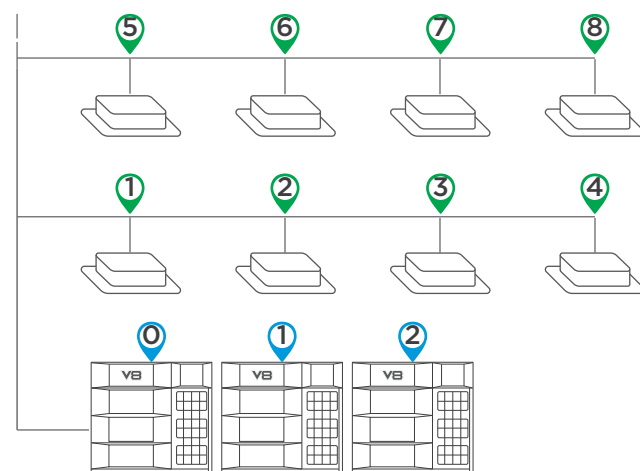
Space Saving

The V8 Series VRF has large capacity and small size, with a capacity of up to 36 HP in a single unit. A single unit can provide cooling/heating for a space of 400m². The space-saving advantages are particularly obvious for large projects.



Auto Addressing

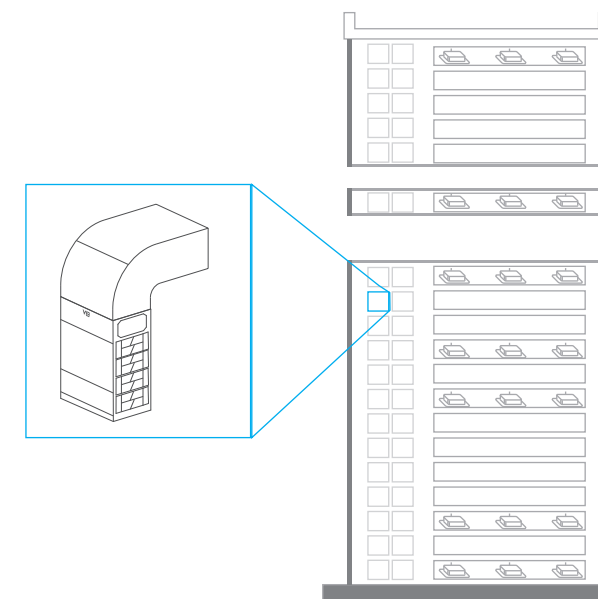
Addresses for all indoor units and combined outdoor units can be assigned automatically by the V8 system, further simplifying installation.



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 building or on balconies.

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



Automatic Refrigerant Charging*

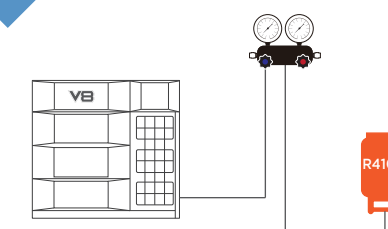
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

Manual refrigerant charging

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

Automatic refrigerant charging

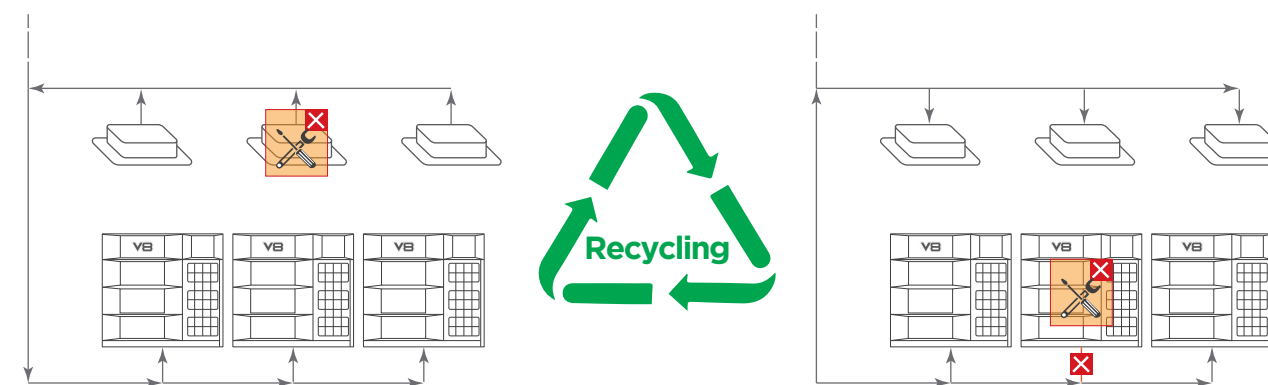
- 1 Connect refrigerant tank to the outdoor unit & activate automatic charging function
- 2 Close the shut-off valve automatically & finish filling process



*This function is available as a customization option.

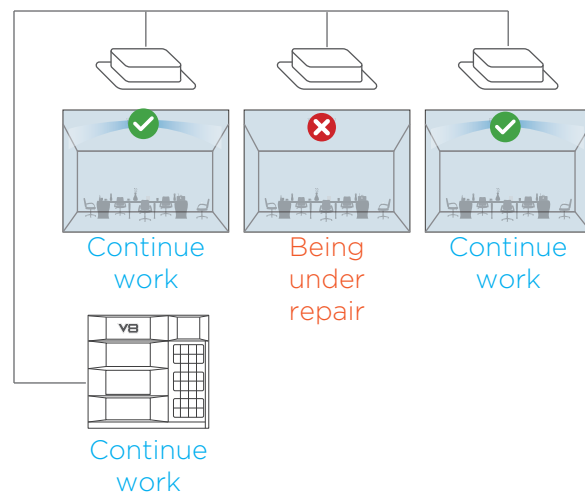
Automatic Refrigerant Recycling

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 easier and more efficient.



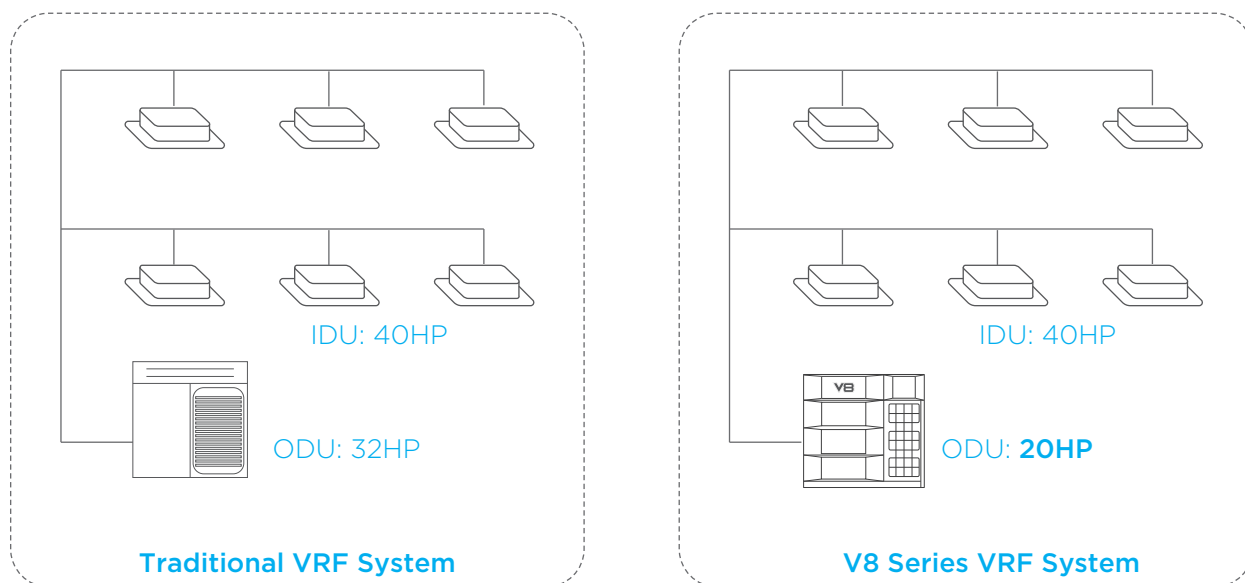
Maintenance Mode

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 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 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.

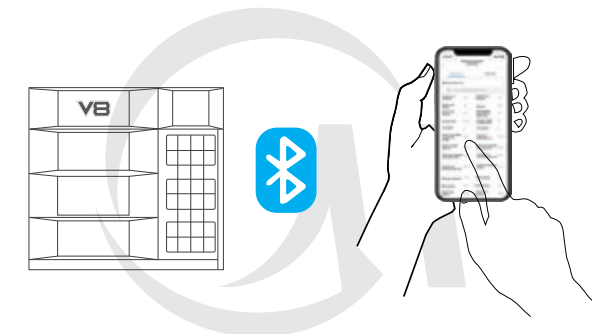


Smart Commissioning/Maintenance Tool

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.

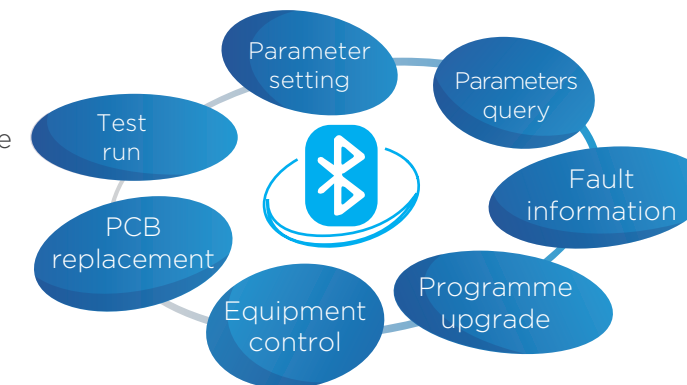
Useful in the following situations:

- 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			MV8-252WV2GNI(PRO)	MV8-280WV2GNI(PRO)	MV8-335WV2GNI(PRO)
Power supply			V/N/Hz	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	25.2	28	33.5
		kBtu/h	86.0	95.5	114.3
	Power input	kW	5.3	6.8	8.3
	EER		4.76	4.14	4.06
Heating ²	Capacity	kW	27	31.5	37.5
		kBtu/h	92.1	107.5	128.0
	Power input	kW	5.4	6.6	8.5
	COP		5.03	4.76	4.43
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%
	Max. 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
	Airflow rate	m³/h	12600	12600	13500
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	7	7	7
Pipe connections ³	Liquid pipe	mm	Ø12.7	Ø12.7	Ø12.7
	Gas pipe	mm	Ø25.4	Ø25.4	Ø25.4
Sound pressure level ⁴		dB(A)	56	57	59
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 range	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	20
Model			MV8-400WV2GNI(PRO)	MV8-450WV2GNI(PRO)	MV8-500WV2GNI(PRO)	MV8-560WV2GNI(PRO)
Power supply			V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	40	45	50	56
		kBtu/h	136.5	153.5	170.6	191.1
	Power input	kW	9.9	11.7	12.8	15.1
	EER		4.05	3.83	3.91	3.71
Heating ²	Capacity	kW	45	50	56	63
		kBtu/h	153.5	170.6	191.1	215.0
	Power input	kW	10.2	11.7	13.5	15.3
	COP		4.40	4.27	4.15	4.13
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Max. quantity		22	26	29	32
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	1	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	1	2
	Airflow rate	m³/h	15600	15600	16500	22000
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8	8	8.4	9.3
Pipe connections ³	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6	Ø28.6
Sound pressure level ⁴		dB(A)	59	60	61	62
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1005×1945×890	1005×1945×890	1005×1945×890	1405×1945×890
Net weight		kg	213	213	215	295
Gross weight		kg	230	230	232	315
Ambient temp. operation range	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:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			22	24	26	28
Model			MV8-615WV2GNI(PRO)	MV8-670WV2GNI(PRO)	MV8-730WV2GNI(PRO)	MV8-785WV2GNI(PRO)
Power supply			V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	61.5	67	73	78.5
		kBtu/h	209.8	228.6	249.1	267.9
	Power input	kW	17.9	19.0	21.0	24.0
	EER		3.43	3.52	3.47	3.27
Heating ²	Capacity	kW	69	75	81.5	87.5
		kBtu/h	235.4	255.9	278.1	298.6
	Power input	kW	17.6	19.0	21.0	24.2
	COP		3.91	3.95	3.88	3.62
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Max. quantity		35	39	42	45
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
	Airflow rate	m³/h	22000	21500	21500	29000
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	9.3	12	12	19
Pipe connections ³	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9	Ø22.2
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6	Ø31.8
Sound pressure level ⁴		dB(A)	62	62	62	63
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1340×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1405×1945×890	1405×1945×890	1405×1945×890	1945×1945×890
Net weight		kg	295	315	315	373
Gross weight		kg	315	335	335	403
Ambient temp. operation range	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

HP			30	32	34	36
Model			MV8-850WV2GNI(PRO)	MV8-900WV2GNI(PRO)	MV8-950WV2GNI(PRO)	MV8-1010WV2GNI(PRO)
Power supply			V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	85	90	95	101
		kBtu/h	290.0	307.1	324.2	344.6
	Power input	kW	27.2	30.2	32.4	35.4
	EER		3.12	2.98	2.93	2.85
Heating ²	Capacity	kW	95	100	106	112
		kBtu/h	324.2	341.2	361.7	382.2
	Power input	kW	27.6	30.2	32.2	34.7
	COP		3.44	3.31	3.29	3.23
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Max. quantity		48	52	55	58
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
	Airflow rate	m³/h	28000	28000	29000	29000
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	21	21	21	21
Pipe connections ³	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2
	Gas pipe	mm	Ø34.9	Ø34.9	Ø34.9	Ø34.9
Sound pressure level ⁴		dB(A)	64	64	66	66
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	405	405	406	406
Gross weight		kg	435	435	436	436
Ambient temp. operation range	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:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			38	40	42	44
			MV8-	MV8-	MV8-	MV8-
Model (Combination unit)			1065WV2GNI(PRO)	1120WV2GNI(PRO)	1180WV2GNI(PRO)	1235WV2GNI(PRO)
Combination type			16HP+22HP	16HP+24HP	16HP+26HP	16HP+28HP
Power supply			380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	V/N/Hz				
		kW	106.5	112.0	118.0	123.5
	Power input	kBtu/h	363.5	382.1	402.6	421.4
		kW	29.6	30.7	32.7	35.7
Heating ²	Capacity	kW	3.60	3.65	3.61	3.46
		kBtu/h	119.0	125.0	131.5	137.5
	Power input	kW	406.0	426.5	448.7	469.2
		COP	29.3	30.7	32.7	35.9
Connected indoor unit			4.06	4.07	4.02	3.83
	Total capacity		50-130%	50-130%	50-130%	50-130%
Compressors	Max. quantity		62	64	64	64
	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		3	3	3	3
	Type		DC	DC	DC	DC
Fan motors	Quantity		3	3	3	3
	Airflow rate	m³/h	37600	37100	37100	44600
	Max. ESP	Pa	0-20 (standard)	0-20 (standard)	0-20 (standard)	0-20 (standard)
			20-120 (customized)	20-120 (customized)	20-120 (customized)	20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8+9.3	8+12	8+12	8+19
Pipe connections ³	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1	Ø19.1
	Gas pipe	mm	Ø38.1	Ø38.1	Ø38.1	Ø38.1
Sound pressure level ⁴			dB(A)	64	64	64
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	(1005×1945×890)+(1405×1945×890)	(1005×1945×890)+(1405×1945×890)	(1005×1945×890)+(1405×1945×890)
Net weight			kg	213+295	213+315	213+315
Gross weight			kg	230+315	230+335	230+335
Ambient temp. operation range	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

HP			46	48	50	52
Model (Combination unit)			MV8- 1285WV2GNI(PRO)	MV8- 1345WV2GNI(PRO)	MV8- 1400WV2GNI(PRO)	MV8- 1460WV2GNI(PRO)
Combination type			22HP+24HP	22HP+26HP	24HP+26HP	26HP+26HP
Power supply			V/N/Hz 380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	128.5	134.5	140.0	146.0
		kBtu/h	438.4	458.9	477.7	498.2
	Power input	kW	36.9	38.9	40.0	42.0
		EER		3.48	3.46	3.50
Heating ²	Capacity	kW	144.0	150.5	156.5	163.0
		kBtu/h	491.3	513.5	534.0	556.2
	Power input	kW	36.6	38.6	40.0	42.0
		COP		3.93	3.90	3.91
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Max. quantity		64	64	64	64
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		4	4	4	4
Fan motors	Type		DC	DC	DC	DC
	Quantity		4	4	4	4
	Airflow rate	m³/h	43500	43500	43000	43000
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	9.3+12	9.3+12	12×2	12×2
Pipe connections ³	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1	Ø19.1
	Gas pipe	mm	Ø38.1	Ø38.1	Ø38.1	Ø38.1
Sound pressure level ⁴		dB(A)	65	65	65	65
Net dimensions (W×H×D)		mm	(1340×1760×825)×2	(1340×1760×825)×2	(1340×1760×825)×2	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1405×1945×890)×2	(1405×1945×890)×2	(1405×1945×890)×2	(1405×1945×890)×2
Net weight		kg	295+315	295+315	315×2	315×2
Gross weight		kg	315+335	315+335	335×2	335×2
Ambient temp. operation range	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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			54	56	58	60
Model (Combination unit)			MV8- 1510WV2GNI(PRO)	MV8- 1570WV2GNI(PRO)	MV8- 1625WV2GNI(PRO)	MV8- 1680WV2GNI(PRO)
Combination type			18HP+36HP	20HP+36HP	22HP+36HP	24HP+36HP
Power supply			V/N/Hz 380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	151.0	157.0	162.5	168.0
		kBtu/h	515.2	535.7	554.4	573.2
	Power input	kW	48.2	50.5	53.3	54.4
		EER	3.13	3.11	3.05	3.09
Heating ²	Capacity	kW	168.0	175.0	181.0	187.0
		kBtu/h	573.3	597.2	617.6	638.1
	Power input	kW	48.2	50.0	52.3	53.7
		COP	3.49	3.50	3.46	3.48
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Max. quantity		64	64	64	64
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		3	4	4	4
Fan motors	Type		DC	DC	DC	DC
	Quantity		3	4	4	4
	Airflow rate	m ³ /h	45500	51000	51000	50500
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8.4+21	9.3+21	9.3+21	12+21
Pipe connections ³	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1	Ø19.1
	Gas pipe	mm	Ø38.1	Ø41.3	Ø41.3	Ø41.3
Sound pressure level ⁴		dB(A)	67	68	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)+(1880×1760×825)	(1340×1760×825)+(1880×1760×825)	(1340×1760×825)+(1880×1760×825)	(1340×1760×825)+(1880×1760×825)
Packed dimensions (W×H×D)		mm	(1005×1945×890)+(1945×1945×890)	(1405×1945×890)+(1945×1945×890)	(1405×1945×890)+(1945×1945×890)	(1405×1945×890)+(1945×1945×890)
Net weight		kg	215+406	295+406	295+406	315+406
Gross weight		kg	232+436	315+436	315+436	335+436
Ambient temp.	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
operation range	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			62	64	66	68	
Model (Combination unit)			MV8- 1740WV2GNI(PRO)	MV8- 1795WV2GNI(PRO)	MV8- 1860WV2GNI(PRO)	MV8- 1910WV2GNI(PRO)	
Combination type			26HP+36HP	28HP+36HP	30HP+36HP	32HP+36HP	
Power supply			V/N/Hz 380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	
Cooling ¹	Capacity	kW	174.0	179.5	186.0	191.0	
		kBtu/h	593.7	612.5	634.6	651.7	
	Power input	kW	56.4	59.4	62.6	65.6	
		EER		3.09	3.02	2.97	2.91
Heating ²	Capacity	kW	193.5	199.5	207.0	212.0	
		kBtu/h	660.3	680.8	706.4	723.4	
	Power input	kW	55.7	58.9	62.3	64.9	
		COP		3.47	3.39	3.32	3.27
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%	
	Max. quantity		64	64	64	64	
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter	
	Quantity		4	4	4	4	
Fan motors	Type		DC	DC	DC	DC	
	Quantity		4	4	4	4	
	Airflow rate	m³/h	50500	58000	57000	57000	
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	
Refrigerant	Type		R410A	R410A	R410A	R410A	
	Factory charge		kg	12+21	19+21	21×2	21×2
Pipe connections ³	Liquid pipe		mm	Ø19.1	Ø19.1	Ø22.2	Ø22.2
	Gas pipe		mm	Ø41.3	Ø41.3	Ø41.3	Ø44.5
Sound pressure level ⁴		dB(A)	68	68	68	68	
Net dimensions (W×H×D)		mm	(1340×1760×825)+(1880×1760×825)	(1880×1760×825)×2	(1880×1760×825)×2	(1880×1760×825)×2	
Packed dimensions (W×H×D)		mm	(1405×1945×890)+(1945×1945×890)	(1945×1945×890)×2	(1945×1945×890)×2	(1945×1945×890)×2	
Net weight		kg	315+406	373+406	405+406	405+406	
Gross weight		kg	335+436	403+436	435+436	435+436	
Ambient temp. operation range	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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			70	72	74	76
Model (Combination unit)			MV8- 1960WV2GN1(PRO)	MV8- 2020WV2GN1(PRO)	MV8- 2080WV2GN1(PRO)	MV8- 2140WV2GN1(PRO)
Combination type			34HP+36HP	36HP+36HP	14HP+24HP+36HP	14HP+26HP+36HP
Power supply			380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	V/N/Hz				
		kW	196.0	202.0	208.0	214.0
	Power input	kBtu/h	668.8	689.2	709.7	730.2
		kW	67.8	70.8	64.3	66.3
Heating ²	EER		2.89	2.85	3.23	3.23
	Capacity	kW	218.0	224.0	232.0	238.5
		kBtu/h	743.9	764.4	791.6	813.8
Connected indoor unit	Power input	kW	66.9	69.4	63.9	65.9
	COP		3.26	3.23	3.63	3.62
Compressors	Total capacity		50-130%	50-130%	50-130%	50-130%
	Max. quantity		64	64	64	64
	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		4	4	5	5
Fan motors	Type		DC	DC	DC	DC
	Quantity		4	4	5	5
Refrigerant	Airflow rate	m³/h	58000	58000	66100	66100
	Max. ESP	Pa	0-20 (standard)	0-20 (standard)	0-20 (standard)	0-20 (standard)
			20-120 (customized)	20-120 (customized)	20-120 (customized)	20-120 (customized)
Pipe connections ³	Type		R410A	R410A	R410A	R410A
	Factory charge		21×2	21×2	8+12+21	8+12+21
	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2
Sound pressure level ⁴	Gas pipe	mm	Ø44.5	Ø44.5	Ø44.5	Ø44.5
	dB(A)		68	68	68	68
Net dimensions (W×H×D)		mm	(1880×1760×825)×2	(1880×1760×825)×2	(940×1760×825)+(1340×1760×825)+(1880×1760×825)	(940×1760×825)+(1340×1760×825)+(1880×1760×825)
Packed dimensions (W×H×D)		mm	(1945×1945×890)×2	(1945×1945×890)×2	(1005×1945×890)+(1405×1945×890)+(1945×1945×890)	(1005×1945×890)+(1405×1945×890)+(1945×1945×890)
Net weight		kg	406×2	406×2	213+315+406	213+315+406
Gross weight		kg	436×2	436×2	230+335+436	230+335+436
Ambient temp. operation range	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

HP			78	80	82	84
Model (Combination unit)			MV8- 2190WV2GN1(PRO)	MV8- 2240WV2GN1(PRO)	MV8- 2300WV2GN1(PRO)	MV8- 2355WV2GN1(PRO)
Combination type			16HP+26HP+36HP	18HP+26HP+36HP	20HP+26HP+36HP	22HP+26HP+36HP
Power supply			380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	V/N/Hz				
		kW	219.0	224.0	230.0	235.5
	Power input	kBtu/h	747.2	764.3	784.8	803.5
		kW	68.1	69.2	71.5	74.3
Heating ²	EER		3.22	3.24	3.22	3.17
	Capacity	kW	243.5	249.5	256.5	262.5
		kBtu/h	830.9	851.4	875.3	895.7
Connected indoor unit	Power input	kW	67.4	69.2	71.0	73.3
	COP		3.61	3.61	3.61	3.58
Compressors	Total capacity		50-130%	50-130%	50-130%	50-130%
	Max. quantity		64	64	64	64
	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		5	5	6	6
Fan motors	Type		DC	DC	DC	DC
	Quantity		5	5	6	6
Refrigerant	Airflow rate	m³/h	66100	67000	72500	72500
	Max. ESP	Pa	0-20 (standard)	0-20 (standard)	0-20 (standard)	0-20 (standard)
			20-120 (customized)	20-120 (customized)	20-120 (customized)	20-120 (customized)
Pipe connections ³	Type		R410A	R410A	R410A	R410A
	Factory charge		8+12+21	8.4+12+21	9.3+12+21	9.3+12+21
	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2
Sound pressure level ⁴	Gas pipe	mm	Ø44.5	Ø44.5	Ø44.5	Ø50.8
	dB(A)		68	68	69	69
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)+(1880×1760×825)	(940×1760×825)+(1340×1760×825)+(1880×1760×825)	(1340×1760×825)×2+(1880×1760×825)	(1340×1760×825)×2+(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)	(1405×1945×890)×2+(1945×1945×890)	(1405×1945×890)×2+(1945×1945×890)
Net weight		kg	213+315+406	215+315+406	295+315+406	295+315+406
Gross weight		kg	230+335+436	232+335+436	315+335+436	315+335+436
Ambient temp. operation range	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:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.

2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.

3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.

4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			86	88
Model (Combination unit)			MV8-2410WV2GN1(PRO)	MV8-2470WV2GN1(PRO)
Combination type			24HP+26HP+36HP	26HP+26HP+36HP
Power supply			380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	V/N/Hz		
		kW	241.0	247.0
	Power input	kBtu/h	822.3	842.8
		kW	75.4	77.4
Heating ²	EER		3.20	3.19
	Capacity	kW	268.5	275.0
		kBtu/h	916.2	938.4
Connected indoor unit	Power input	kW	74.7	76.7
	COP		3.59	3.59
Compressors	Total capacity		50-130%	50-130%
	Max. quantity		64	64
	Type		DC inverter	DC inverter
	Quantity		6	6
Fan motors	Type		DC	DC
	Quantity		6	6
Refrigerant	Airflow rate	m³/h	72000	72000
	Max. ESP	Pa	0-20 (standard)	0-20 (standard)
			20-120 (customized)	20-120 (customized)
Pipe connections ³	Type		R410A	R410A
	Factory charge		12×2+21	12×2+21
	Liquid pipe	mm	Ø22.2	Ø22.2
Sound pressure level ⁴	Gas pipe	mm	Ø50.8	Ø50.8
	dB(A)		69	69
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+406	315×2+406
Gross weight		kg	335×2+436	335×2+436
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30

HP			90	92
Model (Combination unit)			MV8-2520WV2GN1(PRO)	MV8-2580WV2GN1(PRO)
Combination type			18HP+36HP+36HP	20HP+36HP+36HP
Power supply			380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	V/N/Hz		
		kW	252.0	258.0
	Power input	kBtu/h	859.8	880.3
		kW	83.6	85.9
Heating ²	EER		3.01	3.00
	Capacity	kW	280.0	287.0
		kBtu/h	955.5	979.4
Connected indoor unit	Power input	kW	82.9	84.7
	COP		3.38	3.39
Compressors	Total capacity		50-130%	50-130%
	Max. quantity		64	64
	Type		DC inverter	DC inverter
	Quantity		5	6
Fan motors	Type		DC	DC
	Quantity		5	6
Refrigerant	Airflow rate	m³/h	74500	80000
	Max. ESP	Pa	0-20 (standard)	0-20 (standard)
			20-120 (customized)	20-120 (customized)
Pipe connections ³	Type		R410A	R410A
	Factory charge		8.4+21×2	9.3+21×2
	Liquid pipe	mm	Ø25.4	Ø25.4
Sound pressure level ⁴	Gas pipe	mm	Ø50.8	Ø50.8
	dB(A)		70	70
Net dimensions (W×H×D)		mm	(940×1760×825)+(1880×1760×825)×2	(1340×1760×825)+(1880×1760×825)×2
Packed dimensions (W×H×D)		mm	(1005×1945×890)+(1945×1945×890)×2	(1405×1945×890)+(1945×1945×890)×2
Net weight		kg	215+406×2	295+406×2
Gross weight		kg	232+436×2	315+436×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.

2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.

3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.

4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			94	96
Model (Combination unit)			MV8-2635WV2GNI(PRO)	MV8-2690WV2GNI(PRO)
Combination type			22HP+36HP+36HP	24HP+36HP+36HP
Power supply			380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	V/N/Hz	263.5	269.0
		kW	899.0	917.8
	Power input	kBtu/h	88.7	89.8
		kW	2.97	3.00
Heating ²	Capacity	kW	293.0	299.0
		kBtu/h	999.8	1020.3
	Power input	kW	87.0	88.4
		COP	3.37	3.38
Connected indoor unit	Total capacity		50-130%	50-130%
	Max. quantity		64	64
Compressors	Type		DC inverter	DC inverter
	Quantity		6	6
Fan motors	Type		DC	DC
	Quantity		6	6
	Airflow rate	m³/h	80000	79500
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	
Refrigerant	Type		R410A	R410A
	Factory charge	kg	9.3+21×2	12+21×2
Pipe connections ³	Liquid pipe	mm	Ø25.4	Ø25.4
	Gas pipe	mm	Ø50.8	Ø50.8
Sound pressure level ⁴		dB(A)	70	70
Net dimensions (W×H×D)		mm	(1340×1760×825)+(1880×1760×825)×2	(1340×1760×825)+(1880×1760×825)×2
Packed dimensions (W×H×D)		mm	(1405×1945×890)+(1945×1945×890)×2	(1405×1945×890)+(1945×1945×890)×2
Net weight		kg	295+406×2	315+406×2
Gross weight		kg	315+436×2	335+436×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30

HP			98	100
Model (Combination unit)			MV8-2750WV2GNI(PRO)	MV8-2805WV2GNI(PRO)
Combination type			26HP+36HP+36HP	28HP+36HP+36HP
Power supply			380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	V/N/Hz	275.0	280.5
		kW	938.3	957.1
	Power input	kW	91.8	94.8
		EER	3.00	2.96
Heating ²	Capacity	kW	305.5	311.5
		kBtu/h	1042.5	1063.0
	Power input	kW	90.4	93.6
		COP	3.38	3.33
Connected indoor unit	Total capacity		50-130%	50-130%
	Max. quantity		64	64
Compressors	Type		DC inverter	DC inverter
	Quantity		6	6
Fan motors	Type		DC	DC
	Quantity		6	6
	Airflow rate	m³/h	79500	87000
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A
	Factory charge	kg	12+21×2	19+21×2
Pipe connections ³	Liquid pipe	mm	Ø25.4	Ø25.4
	Gas pipe	mm	Ø50.8	Ø50.8
Sound pressure level ⁴		dB(A)	70	70
Net dimensions (W×H×D)		mm	(1340×1760×825)+(1880×1760×825)×2	(1880×1760×825)×3
Packed dimensions (W×H×D)		mm	(1405×1945×890)+(1945×1945×890)×2	(1945×1945×890)×3
Net weight		kg	315+406×2	373+406×2
Gross weight		kg	335+436×2	403+436×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.

2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.

3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.

4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			102	104
Model (Combination unit)			MV8-2860WV2GNI(PRO)	MV8-2920WV2GNI(PRO)
Combination type			32HP+34HP+36HP	32HP+36HP+36HP
Power supply			380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	V/N/Hz		
		kW	286.0	292.0
	Power input	kBtu/h	975.9	996.3
		kW	98.0	101.0
EER		2.92	2.89	
Heating ²	Capacity	kW	318.0	324.0
		kBtu/h	1085.1	1105.6
	Power input	kW	97.1	99.6
	COP		3.27	3.25
Connected indoor unit	Total capacity		50-130%	50-130%
Compressors	Max. quantity		64	64
	Type		DC inverter	DC inverter
	Quantity		6	6
Fan motors	Type		DC	DC
	Quantity		6	6
	Airflow rate	m³/h	86000	86000
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A
	Factory charge	kg	21×3	21×3
Pipe connections ³	Liquid pipe	mm	Ø25.4	Ø25.4
	Gas pipe	mm	Ø50.8	Ø50.8
Sound pressure level ⁴		dB(A)	70	70
Net dimensions (W×H×D)		mm	(1880×1760×825)×3	(1880×1760×825)×3
Packed dimensions (W×H×D)		mm	(1945×1945×890)×3	(1945×1945×890)×3
Net weight		kg	405+406×2	405+406×2
Gross weight		kg	435+436×2	435+436×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30

HP			106		108	
Model (Combination unit)			MV8-2970WV2GNI(PRO)		MV8-3030WV2GNI(PRO)	
Combination type			34HP+36HP+36HP		36HP+36HP+36HP	
Power supply			380-415/3/50(60)		380-415/3/50(60)	
Cooling ¹	Capacity	V/N/Hz	297.0		303.0	
		kW	1013.4		1033.8	
	Power input	kBtu/h	103.2		106.2	
		kW	2.88		2.85	
Heating ²	EER		330.0		336.0	
			1126.1		1146.6	
	Power input	kW	101.6		104.1	
		COP		3.25		3.23
Connected indoor unit	Total capacity		50-130%		50-130%	
	Max. quantity		64		64	
Compressors	Type		DC inverter		DC inverter	
	Quantity		6		6	
Fan motors	Type		DC		DC	
	Quantity		6		6	
	Airflow rate	m³/h	87000		87000	
			Max. ESP		Pa	
Refrigerant	Type		0-20 (standard) 20-120 (customized)		0-20 (standard) 20-120 (customized)	
	Factory charge		R410A		R410A	
Pipe connections ³	Type		R410A		R410A	
	Factory charge		21×3		21×3	
Sound pressure level ⁴	Liquid pipe		mm		mm	
	Gas pipe		mm		mm	
Net dimensions (W×H×D)			mm		mm	
Packed dimensions (W×H×D)			mm		mm	
Net weight			kg		kg	
Gross weight			kg		kg	
Ambient temp. operation range	Cooling		°C(DB)		°C(DB)	
	Heating		°C(DB)		°C(DB)	

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.

2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.

3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.

4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

V8i (Individual series)

HP			8	10	12	14
Model			MV8i-252WV2GNI(PRO)	MV8i-280WV2GNI(PRO)	MV8i-335WV2GNI(PRO)	MV8i-400WV2GNI(PRO)
Power supply			V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	5.5	7.2	8.6	11.0
	EER		4.58	3.91	3.88	3.63
Heating ²	Capacity	kW	27.0	31.5	37.5	45.0
		kBtu/h	92.1	107.5	128.0	153.5
	Power input	kW	5.7	7.0	9.1	11.6
	COP		4.77	4.49	4.14	3.89
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		13	16	19	22
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	1	1
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	1	1
	Airflow rate	m³/h	12600	12600	13500	14400
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	7	7	7	7
Pipe connections ³	Liquid pipe	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7
	Gas pipe	mm	Ø25.4	Ø25.4	Ø25.4	Ø25.4
Sound pressure level ⁴		dB(A)	56	57	59	59
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1005×1945×890	1005×1945×890	1005×1945×890	1005×1945×890
Net weight		kg	195	195	195	197
Gross weight		kg	213	213	213	215
Ambient temp. operation range	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

HP			16	18	20	22
Model			MV8i-450WV2GNI(PRO)	MV8i-500WV2GNI(PRO)	MV8i-560WV2GNI(PRO)	MV8i-615WV2GNI(PRO)
Power supply			V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	12.6	14.3	16.5	18.9
	EER		3.57	3.50	3.39	3.26
Heating ²	Capacity	kW	50.0	56.0	63.0	69.0
		kBtu/h	170.6	191.1	215.0	235.4
	Power input	kW	12.8	14.6	16.7	19.1
	COP		3.91	3.83	3.77	3.61
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		26	29	32	35
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	2	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	2	2
	Airflow rate	m³/h	15600	16500	22000	22000
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8	8.4	9.3	9.3
Pipe connections ³	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6	Ø28.6
Sound pressure level ⁴		dB(A)	60	61	62	62
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1005×1945×890	1005×1945×890	1405×1945×890	1405×1945×890
Net weight		kg	213	215	295	295
Gross weight		kg	230	232	315	315
Ambient temp. operation range	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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			24	26	28	30
Model			MV8i-670WV2GNI(PRO)	MV8i-730WV2GNI(PRO)	MV8i-785WV2GNI(PRO)	MV8i-850WV2GNI(PRO)
Power supply			V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	67.0	73.0	78.5	85.0
		kBtu/h	228.6	249.1	267.9	290.0
	Power input	kW	20.9	23.0	24.9	27.5
	EER		3.20	3.18	3.15	3.09
Heating ²	Capacity	kW	75.0	81.5	87.5	95.0
		kBtu/h	255.9	278.1	298.6	324.2
	Power input	kW	21.3	22.8	26.1	29.1
	COP		3.52	3.57	3.35	3.26
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		39	42	45	48
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
	Airflow rate	m³/h	21500	21500	29000	28000
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	9.3	12	19	21
Pipe connections ³	Liquid pipe	mm	Ø15.9	Ø15.9	Ø22.2	Ø22.2
	Gas pipe	mm	Ø28.6	Ø28.6	Ø31.8	Ø34.9
Sound pressure level ⁴		dB(A)	62	62	63	64
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1405×1945×890	1405×1945×890	1945×1945×890	1945×1945×890
Net weight		kg	300	315	373	405
Gross weight		kg	320	335	403	435
Ambient temp. operation range	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

HP			32	34	36
Model			MV8i-900WV2GNI(PRO)	MV8i-950WV2GNI(PRO)	MV8i-1010WV2GNI(PRO)
Power supply			V/N/Hz	380-415/3/50(60)	380-415/3/50(60)
Cooling ¹	Capacity	kW	90.0	95.0	101.0
		kBtu/h	307.1	324.2	344.6
	Power input	kW	31.5	33.8	36.3
	EER		2.86	2.81	2.78
Heating ²	Capacity	kW	100.0	106.0	112.0
		kBtu/h	341.2	361.7	382.2
	Power input	kW	31.1	33.5	36.0
	COP		3.22	3.16	3.11
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%
	Maximum quantity		52	55	58
Compressors	Type		DC inverter	DC inverter	DC inverter
	Quantity		2	2	2
Fan motors	Type		DC	DC	DC
	Quantity		2	2	2
	Airflow rate	m³/h	28000	29000	29000
	Max. ESP	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	21	21	21
Pipe connections ³	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2
	Gas pipe	mm	Ø34.9	Ø34.9	Ø34.9
Sound pressure level ⁴		dB(A)	64	66	66
Net dimensions (W×H×D)		mm	1880×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1945×1945×890	1945×1945×890	1945×1945×890
Net weight		kg	405	406	406
Gross weight		kg	435	436	436
Ambient temp. operation range	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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.