

DISCOVER
easyCOMFORT

Midea Group
Midea Building Technologies Division

C-V8SASO202503

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V8 VRF

DISCOVER
RELIABLE COMFORT

2025

MBT

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

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

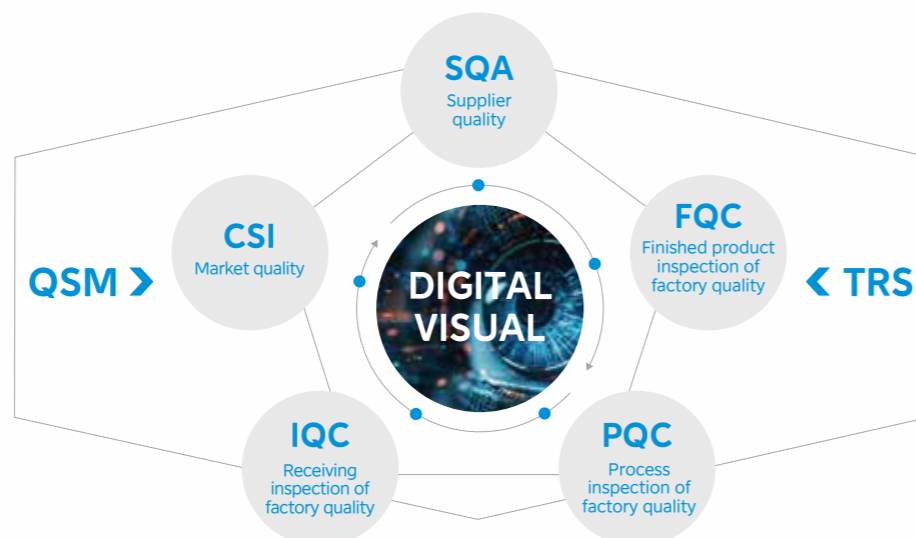
Committed to providing users with intelligent, digital, low carbon overall building solution



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



All products can be visualized and digitalized throughout entire process.



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



MIDEA VRF HISTORY



1999

- Cooperated with Toshiba to develop inverter technologies



V3

2005

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



V4

2008-2014

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



V5X

2014

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



V6

2017-2020

- Launched **V6** Heat Pump series VRF, **VC Pro** cooling-only series VRF and **V6R** heat-recovery series VRF
- Full DC inverter technology
- Attained 32HP single-unit capacity



V8

2022-2023

- Launching the 8th generation **V8** Series VRF
- Full DC inverter technology
- Attained 32HP single-unit capacity

BENEFITS OF MIDEA VRF



For End-users

Improved IAQ
Cost-efficient Operation
Enhanced Indoor Comfort



For Building Owners

Energy-management Solutions
Reliable Operation
Backup Solution



For Consultants

Diversified Solutions
Professional Tools and Support
Design Flexibility



For Construction Companies

Green Solutions
Space-Saving Designs
Intelligent Management Systems



APPLICATION SOLUTIONS

Office Complexes

Enjoy comfort while working

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



Hotels & Shopping Malls

Increase your business, not your bills

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



Residential Apartments

One for every home

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



Hospitals & Schools & Airports

Meeting all expectations

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

ALL DIGITALIZED SERVICE

Design Service

BIM Building Information Import

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



Building Energy Estimation

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



HVACSSP Online VRF System Design

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



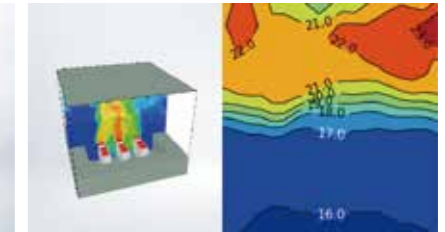
Installation Service



Automatic refrigerant charging



Automatic commissioning reporting



MCFD Energy consumption and airflow simulation optimization

Management Service



The probability of Filth blockage 80%



Degradation of energy efficiency 25%



Continuous energy saving service

After-sales Service



Intelligent maintenance tool



Cloud-based big data analytics



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

INTERNATIONAL SERVICE MANAGEMENT

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

🔍 > <https://ics.midea.com>



My order

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

Document inquiry and download

View or download product technical documentation online, such as catalogs, images, training PPTs and other assets.

Technical inquiry & FAQ

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

Troubleshooting

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

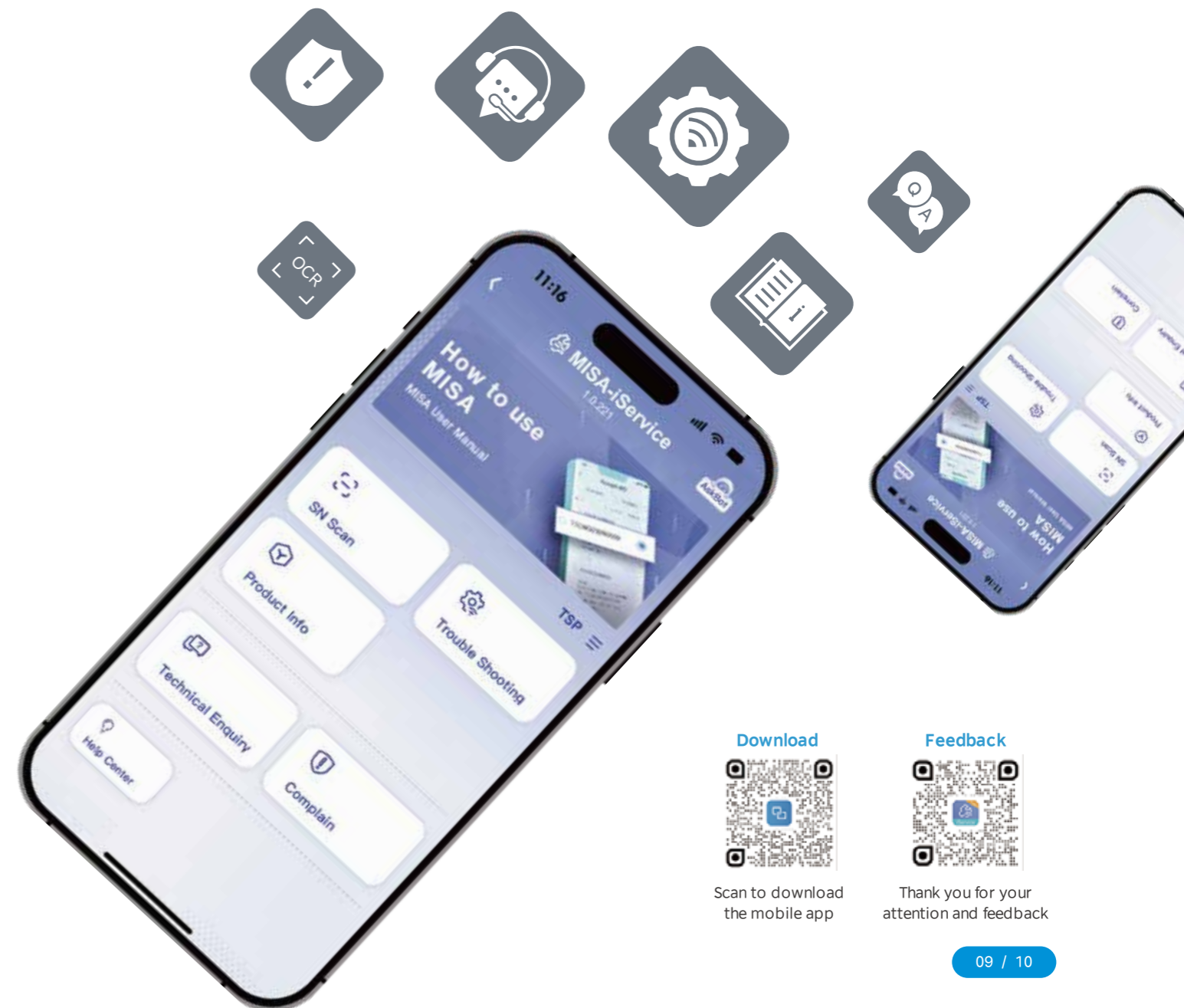
Complain

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

MOBILE INTELLIGENCE SERVICE APP

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

🔍 > <https://link.midea.com>



Download



Scan to download the mobile app

Feedback



Thank you for your attention and feedback

GLOBAL BULK WAREHOUSE LAYOUT OVERVIEW



V8

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 UNITS

V8 (COMBINABLE SERIES)



Outdoor Unit Lineup

V8 (Combinable series)

HP	8-18	
Single Unit		
HP	20-24	
Single Unit		
HP	26-32	
Single Unit		
HP	34-64	66-96
Combined Unit		

Outdoor Unit Features

Features		V8
Innovative Technologies		Midea proprietary communication bus chip greatly simplifies installation, saving associated costs. ●
	ShieldBox	Fully-enclosed electrical control box provides robust protection for internal electrical components. ●
	SuperSense	19 sensors monitor every component of the refrigerant pipeline to ensure optimal performance. ●
	Meta 2.0	Triple variable control maximizes comfort and energy efficiency. ●
		Maximizes comfort while ensuring a supply of healthy indoor air. ●
	Doctor M 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient. ●
High Efficiency	Full DC inverter technology	All indoor and outdoor unit electrical components utilize DC power supply, improving efficiency and saving energy. ●
	Enhanced Vapor Injection (EVI) compressor	Increases refrigerant circulation while improving both cooling and heating capacity. ●
	Micro-channel refrigerant subcooling	The refrigerant system can achieve 15°C subcooling, improving refrigerant heat transfer efficiency while reducing noise. ●
	Low standby-power consumption	Standby power consumption as low as 3.5W. ●
	G-type heat exchanger	Large-capacity outdoor units feature G-type heat exchangers which maximize exchanger surface area while enabling more compact, space-saving units. ●
	60-step energy management	The system can be set from 40% to 100% capacity output in 1% increments. ●
	Duty cycling (unit)	Equalizes running time of outdoor units in a multi-unit configuration, significantly extending unit lifespan. ●
Duty cycling (compressor)	Equalizes compressor running time in dual-compressor units, significantly extending compressor lifespan. ●	

● standard feature ○ customization option X function not available

Features		V8
High Reliability	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (requires combined-unit configuration). ●
	Backup operation (compressor)	If one compressor fails, the other compressor provides backup so that the system can continue operating (requires dual-compressor unit). ●
	Backup operation (fanmotor)	If one fan motor fails, the other fan motor provides backup so that the system can continue operating (requires dual-fan unit). ●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provides backup so that the system can continue operating. ●
	Precise oil control	Monitors the oil levels of all outdoor compressors to ensure sufficient oil at all times, helping prevent potential damage caused by shortages. ●
	UL anti-corrosion certificate	It has been certified by UL that our VRF outdoor unit can withstand 27 years of simulated severe corrosion under a salt contaminated traffic environment. ○
	Anti-corrosion protection	Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard. ●
	Micro-channel refrigerant cooling PCB	Achieves efficiencies up to 10 times higher than traditional refrigerant pipe cooling. ●
	Chassis electrical heater	Prevents condensation on the chassis from freezing in winter. ○
	Anti-snow shield	Prevents snow from accumulating on the outdoor unit, ensuring stable operation on snowy days. ○
Auto snow-removal function	Blows away accumulated snow on the outdoor unit, ensuring stable operation on snowy days. ●	
Auto dust-removal function	Blows away accumulated dust on the outdoor unit, ensuring stable operation in dusty environments. ●	
Alarm output	A system malfunction triggers a remote alert notifying service personnel the service or maintenance is required. ●	
Fire alarm input	In the event of fire, receive fire information in time and stop the system immediately to avoid serious problems. ●	

● standard feature ○ customization option X function not available

Outdoor Unit Features

Features		V8	
Enhanced Comfort	Silent mode	A 15-level silent mode gives your customers maximum customization options.	●
	Intelligent defrosting technology	Calculates defrosting time based on actual system status and activates accordingly, eliminating wasteful heat loss due to unnecessary defrosting.	●
	Auto cooling/heating changeover	Automatically switches between cooling and heating modes as needed to efficiently reach the set temperature (available in changeover priority mode)	●
	Additional ambient temperature sensor	An additional external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system should be running in cooling 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 offer maximum flexibility for a wide variety of scenarios.	●
Wide Application Range	Wide capacity range	Our diverse capacity range ensures an ideal fit for any application, from large buildings to small.	8-32HP (single) 34-96HP (combined)
	Wide range of indoor units	Our comprehensive lineup includes 12 indoor unit styles and more than 100 models to meet the needs of any configuration.	●
	Wide operation range	Stable performance under extreme conditions.	-15~55°C(C) -30~30°C(H)
	Long piping capability	Provides system design flexibility along while lower costs due to simplified installation.	●
Auto addressing (ODU~IDU)	Automatically assigns addresses to indoor units, simplifying installation.	●	
Auto addressing (ODU~ODU)	Automatically assigns addresses to slave outdoor units, further simplifying installation (requires combined-unit configuration).	●	

● standard feature ○ customization option X function not available

Features		V8
Automatic refrigerant charging	Makes installation and service easier and more efficient.	○
Automatic refrigerant recycling	During outdoor unit maintenance, refrigerant can be temporarily stored in indoor units, and vice versa.	●
Bluetooth module	Enables storage of fault data, operation parameter enquiry, system parameter setting, simplified PCB replacement and program upgrades for indoor and outdoor units.	○
Digit display	Intuitive, 4-digit, 7-segment display makes it easy to set parameters and check for parameters and errors.	●
High external static pressure	Up to 120Pa ESP enables longer duct runs providing greater installation flexibility.	● 0-20Pa ○ 20-120Pa
Flexible communication wire topology	Supports any communication topology, greatly simplifying installation and reducing installation cost.	●
2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures.	●
Extended communication wiring capability	Communication wiring capability up to 2000m offers more flexible installation options.	●
Wide combination ratio	Combination ratio can be extended to 50%-200% under certain conditions which can meet different project requirements.	● 50-130% ○ 50-200% (for single unit system)
Supports manual and automatic defrosting	Improves maintenance efficiency.	●
Supports manual and automatic oil return	Improves maintenance efficiency.	●
Easy software update*	The software can be updated on site via USB, or remotely via the web.	●
Flexible controller connectivity	The central controller and BMS gateway can simultaneously connect to the ODU while the central controller can connect either the ODU or IDU.	●
Refrigerant volume monitoring	The unit can diagnose excessive or insufficient amounts of refrigerant, and alert maintenance personnel, helping to prevent system malfunction.	●
Easy system commissioning and inspection*	System commissioning and inspection can easily be conducted on-site or remotely via the web.	●
Intelligent maintenance tool	Intelligent Bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency.	○

*Web function requires data cloud gateway sold separately.

● standard feature ○ customization option X function not available

INNOVATIVE TECHNOLOGIES

HyperLink

 **ETA 2.0**

ShieldBox

 **ENair 2.0**

SuperSense

 **DOCTOR m. 2.0**



HyperLink

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

Benefits



Flexible installation



Low installation cost



High reliability

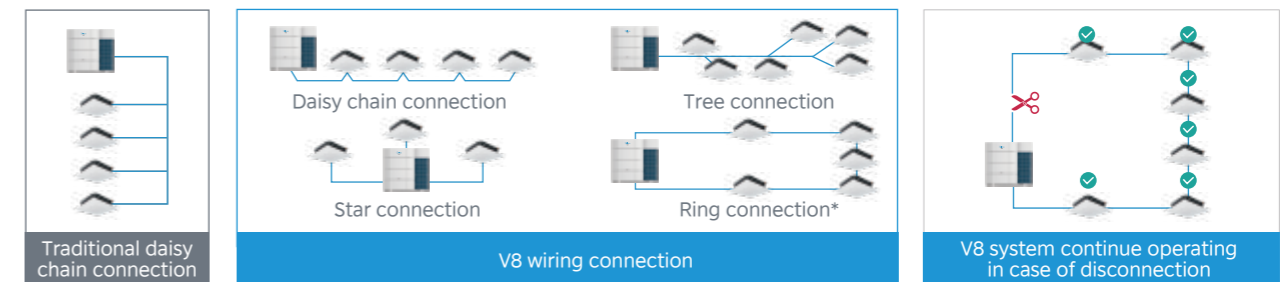


Stable operation

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

Flexible Communication Wire Topology

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



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

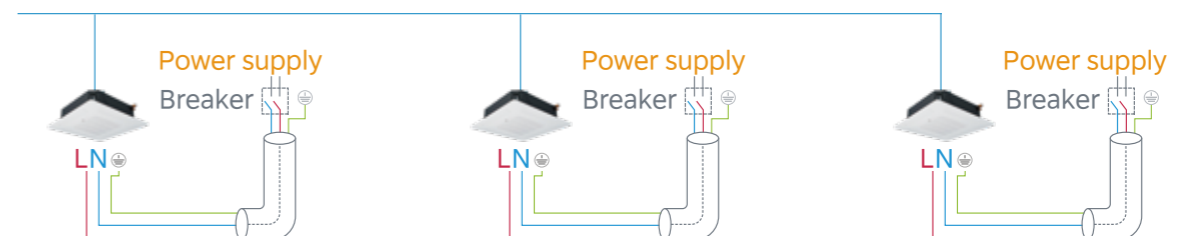
Super Anti-interference Capability

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



Flexible Power Supply for Indoor Units

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



ShieldBox

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

Benefits



High reliability



Stable operation

IP (INGRESS PROTECTION)

IP55

Dustproof grade code

Prevents entry of foreign objects and dust

Waterproof grade code

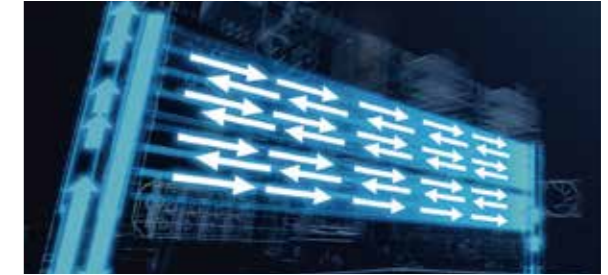
Prevents water entry in multi-directional spray



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

All Micro-channel Refrigerant Cooling

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



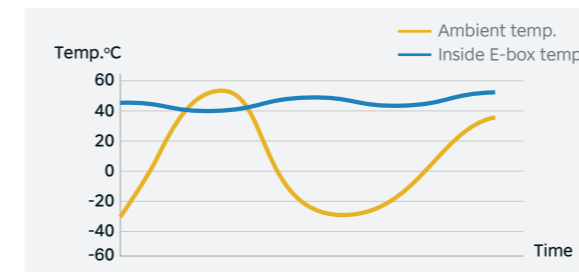
PTC Heater*

A unique PTC heater, with a precise temperature control sensor, ensures that the temperature inside the chamber remains within the normal operating temperature range of electronic devices even in low-temperature environments down to -30°C.

*Available as a customized option.

Built-in Circulating Fan

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



Multiple High-Precision Temperature Sensors

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

SuperSense

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

Benefits



High reliability



Stable operation

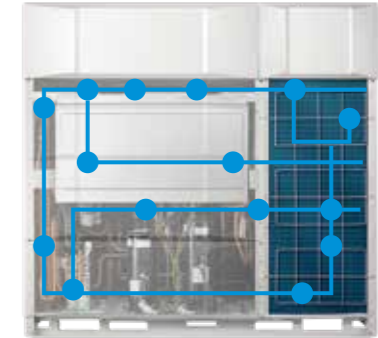


Enhanced comfort

Up to 19 strategically-positioned sensors constantly monitor every aspect of the refrigerant pipeline, ensuring reliability and stable operation. Additionally, virtual sensor technology serves as a backup in case of sensor failure, ensuring uninterrupted system operation.

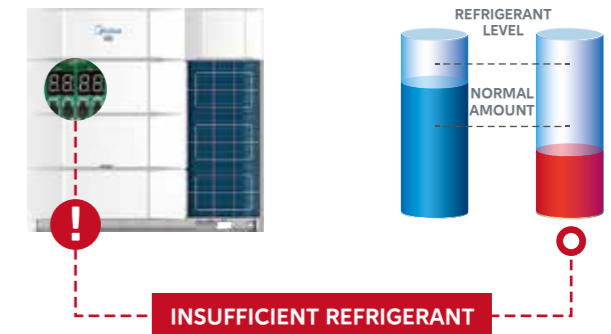
Comprehensive Sensor Grid

The V8 Series VRF incorporates advanced refrigerant monitoring technology, equipped with 19 sensors that include built-in data models for compressors, heat exchangers, throttling components, and other critical parts. This system allows real-time monitoring of refrigerant status throughout the entire VRF system.



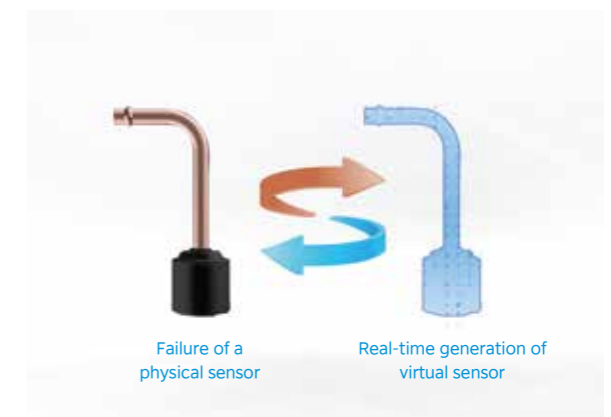
Refrigerant Volume Monitoring

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



Virtual Sensor Backup

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



ETA 2.0

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

Benefits



Energy saving



Enhanced comfort



Rapid cooling/heating

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



Variable Refrigerant Flow

STEP 1

Intelligent space recognition

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



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

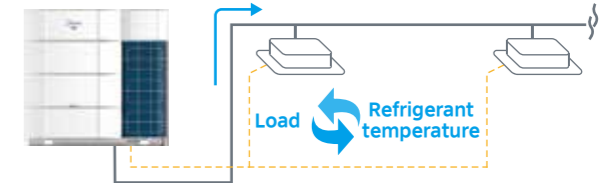


Variable Refrigerant Temperature

STEP 2

Automatic refrigerant temperature modulation

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



Automatic matching of the corresponding refrigerant temperature to the load.



Variable Indoor Airflow

STEP 3

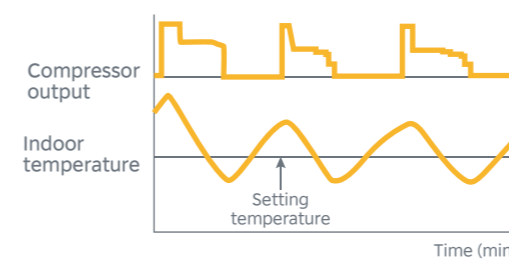
Adaptive indoor airflow and refrigerant flow

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

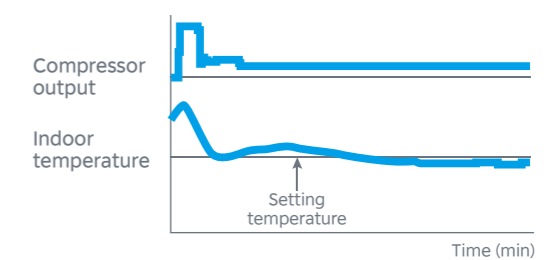


Automatic indoor airflow adjustment based on the calculated load and refrigerant temperature.

Conventional refrigerant regulation



V8 refrigerant regulation



ENair 2.0

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

Benefits



Quiet



Enhanced comfort

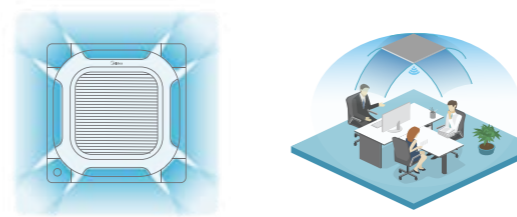


Healthy

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

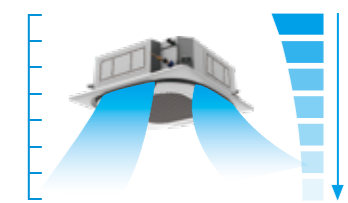
360° Airflow

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



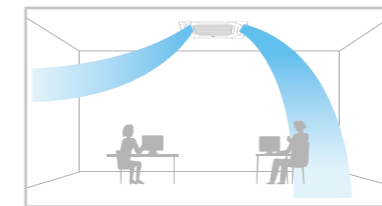
7 Fan Speeds

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



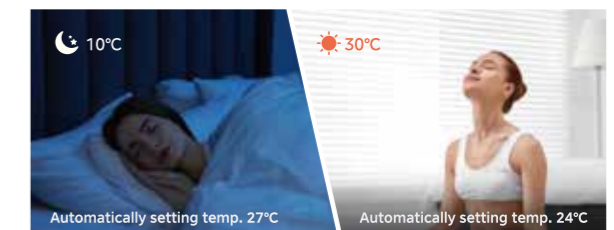
Individual Louver Control

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



Sleep Mode

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

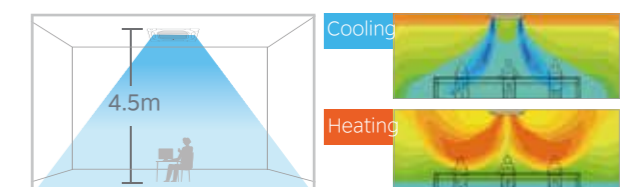


*Temperature on left is for reference.

Extended Distance Air Delivery*

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

*Available as a customized option.



DOCTOR m. 2.0

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

Benefits



Easy maintenance



Fast maintenance



Low maintenance cost

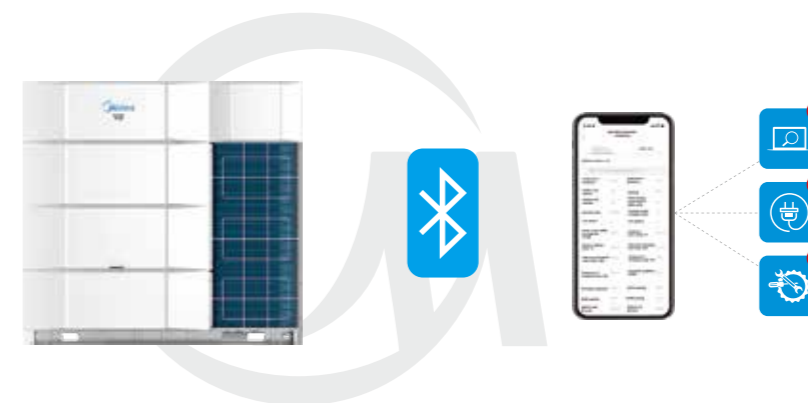


By harnessing a cloud-based platform powered by big data and artificial intelligence, the V8 Series VRF system monitors the real-time operation status of each unit, predicts potential system malfunctions and proactively recommends service or maintenance. An intelligent Bluetooth module and after-sales kit further streamline maintenance while enhancing servicing efficiency.

Intelligent Bluetooth Module*

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

*Available as a customized option.



Cloud Data Synchronization*

The V8 Series VRF synchronizes and stores all unit parameters to the cloud via a data cloud gateway. This includes data such as run and lock status, blockage frequency, spot inspection parameters, and more. Users can access real-time and historical parameters from anywhere with an internet connection using computers, tablets, or mobile devices.

*Data cloud gateway must be purchased separately.



Cloud-based Analytics

The V8 Series VRF system sends real-time operational data to the cloud for analysis. It can then generate alerts for any abnormal conditions and proactively suggest service or maintenance. This helps prevent costly system failures and identifies potential issues that may not be detected through ordinary visual inspections.

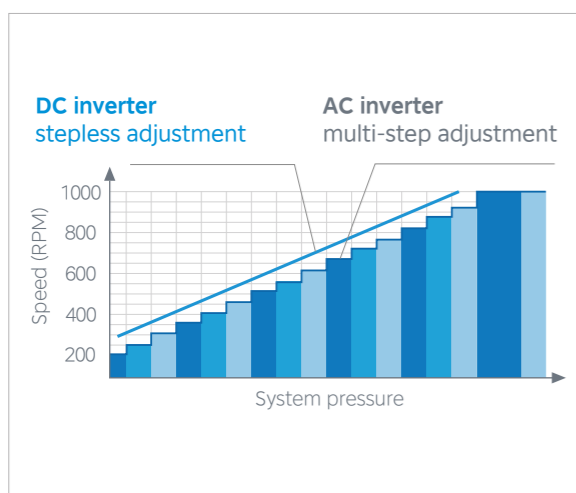
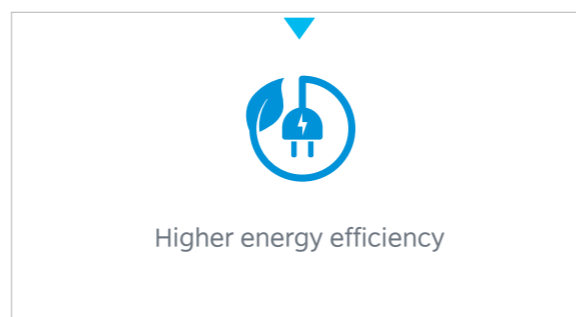
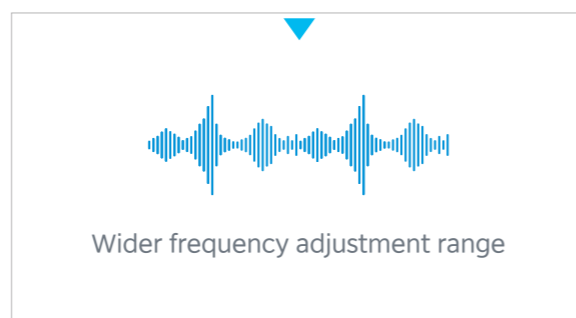
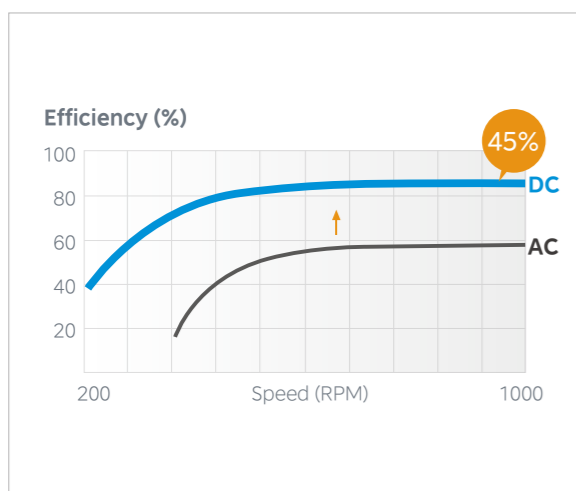


HIGH EFFICIENCY

Full DC Inverter Technology

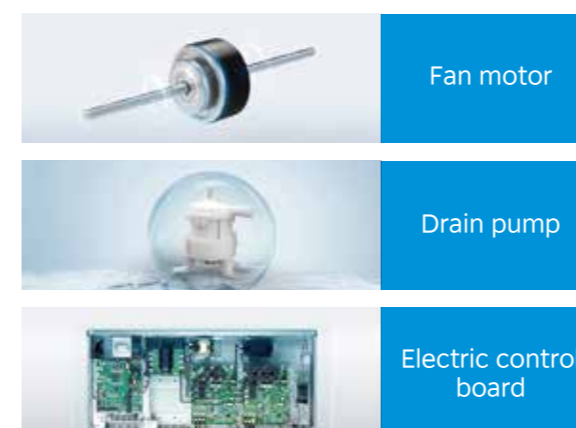
Full DC Inverter Outdoor Components

The V8 Series VRF utilizes DC inverter compressors and fan motors which enables high-precision and stepless speed adjustment for maximum efficiency, consistently stable operation and reduced noise levels.

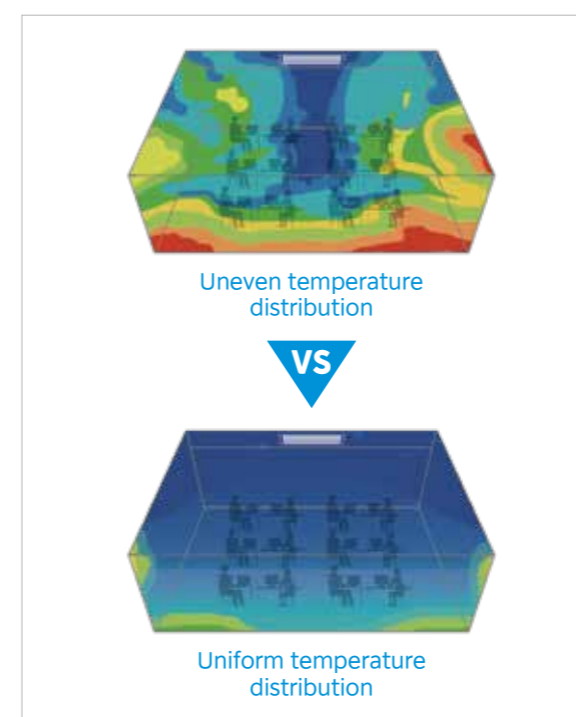


Full DC Inverter Indoor Components

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

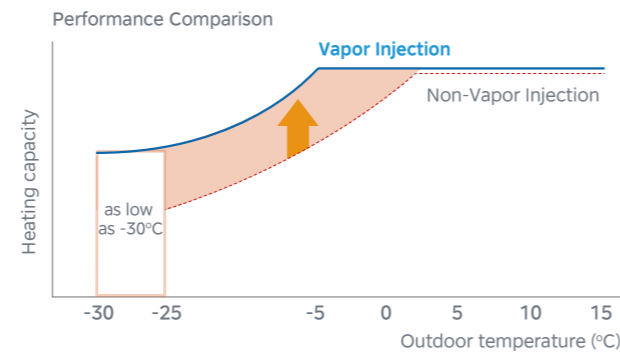
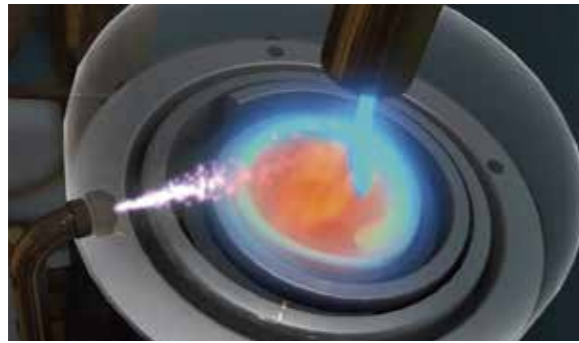


20%
Efficiency improvements



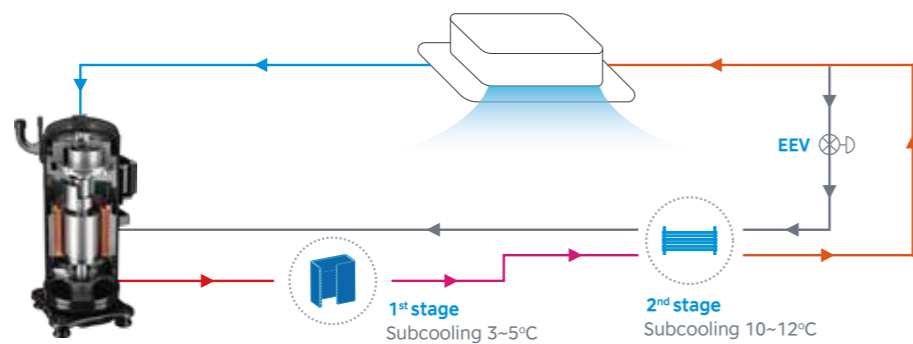
Enhanced Vapor Injection (EVI) Compressor

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



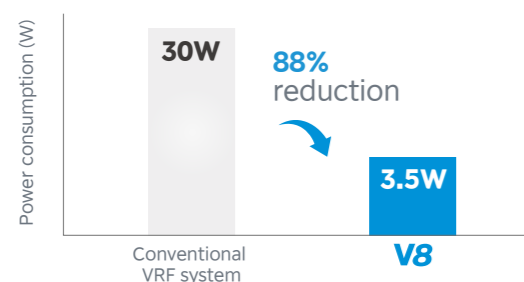
Advanced Subcooling Technology

The V8 Series VRF utilizes a micro-channel heat exchanger to achieve 15°C refrigerant subcooling. This significantly enhances the efficiency of refrigerant heat transfer while reducing the noise generated by refrigerant flow.



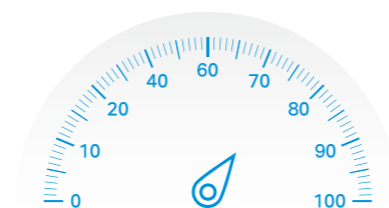
Low Standby Power Consumption

In contrast to the standard 30W standby power consumption of traditional VRF systems, the V8 Series VRF employs an optimized control scheme, lowering standby power requirements to as little as 3.5W.



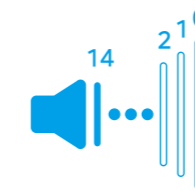
60-step Energy Management

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



Advanced Silent Technology

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



15 silent options

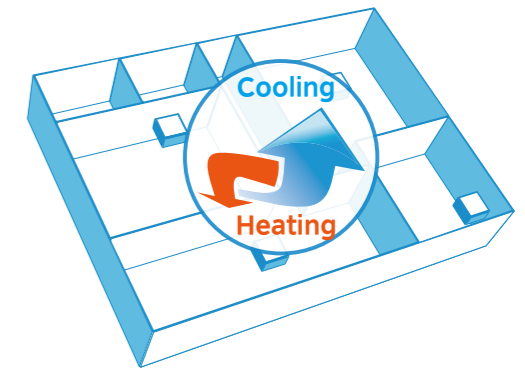
10 Priority Modes

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



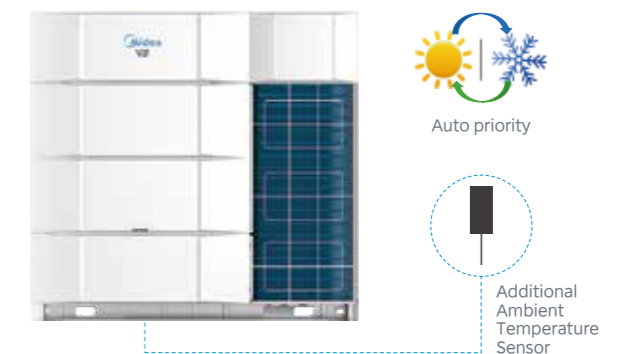
Auto Cooling/Heating Changeover

Automatically switches between cooling and heating modes as needed to efficiently reach the set temperature (available in changeover priority mode).



Additional Ambient Temperature Sensor*

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



*Available as a customized option.

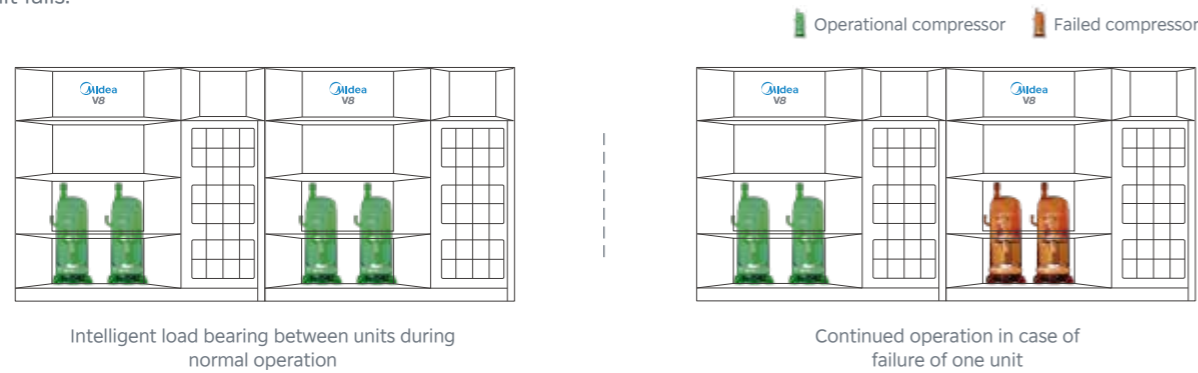
HIGH RELIABILITY

Quadruple Backup

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

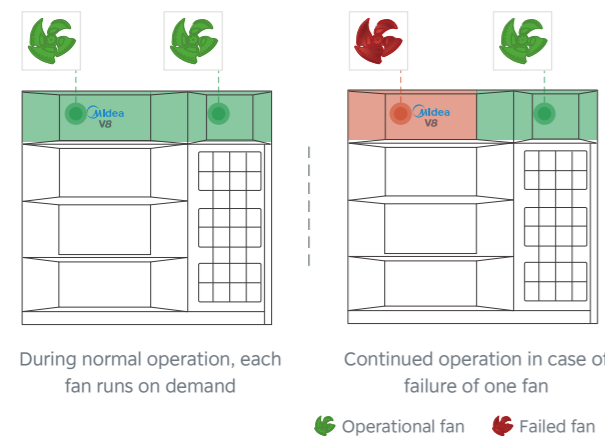
1 Unit Backup

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



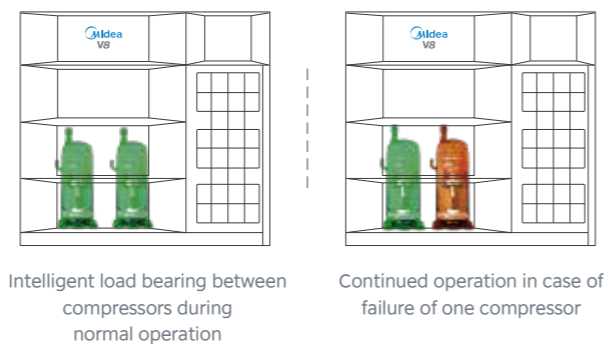
2 Fan Backup

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



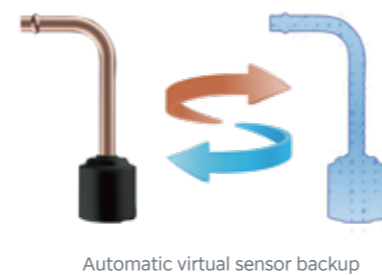
3 Compressor Backup

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



4 Virtual Sensor Backup

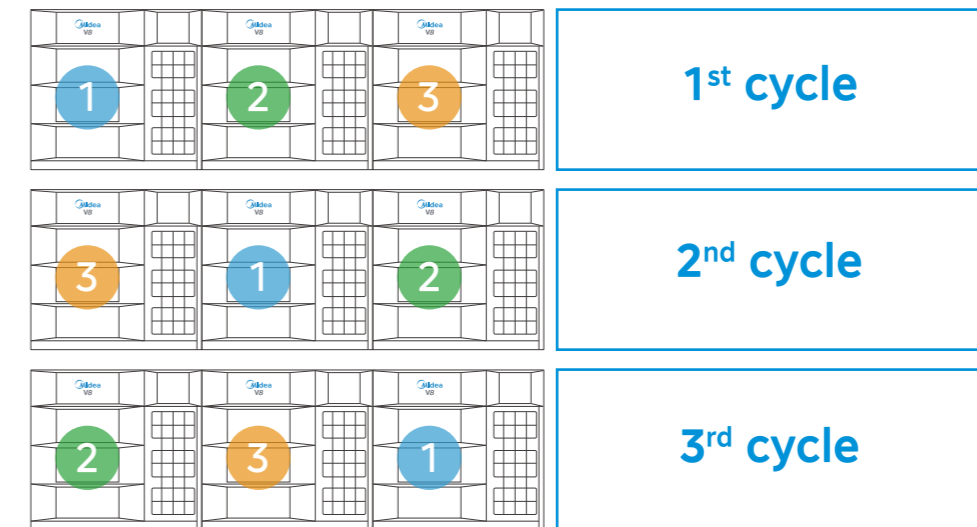
By employing an algorithm, every physical sensor can create a corresponding virtual sensor, which serves as a backup. This ensures system operation remains unaffected in the event of a sensor failure.



Dual Duty Cycling Modes

1 Unit Duty Cycling

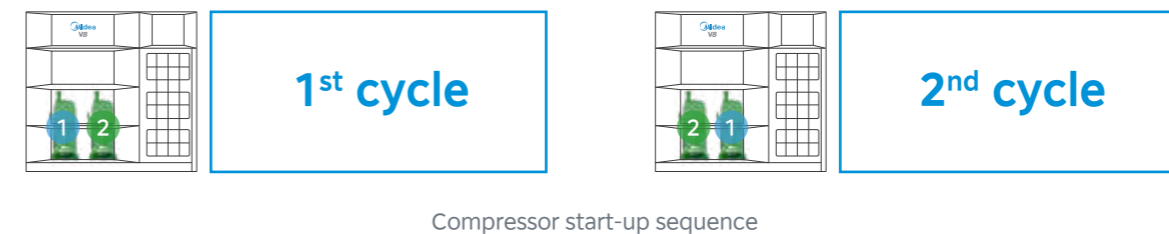
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



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

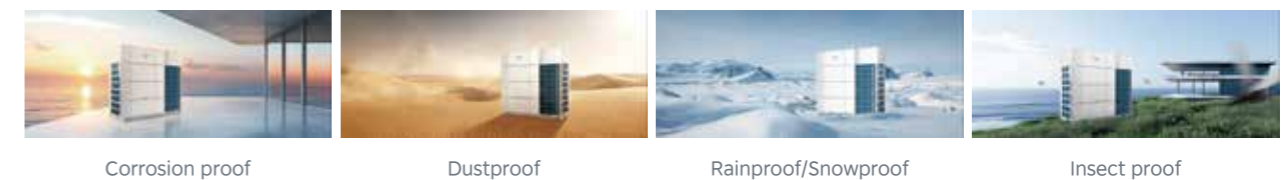
2 Compressor Duty Cycling

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



ShieldBox

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



HIGH RELIABILITY

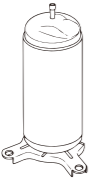
SuperSense


V8 Series VRF utilizes up to 19 sensors for each outdoor unit and 4 for each indoor unit. System refrigerant operating status can be viewed in real time enabling intelligent analysis of operation parameters, smart error diagnosis and forecasting and visualize energy savings.

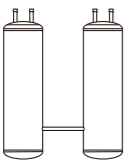


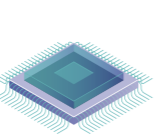
Precise Oil Control

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

- 

Compressor internal oil separation.
- 

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

Oil balance pipes between gas-liquid separator ensure even oil distribution to keep compressors running normally.
- 

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

Anti-corrosion Protection

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

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



UL Anti-Corrosion Certificate*

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

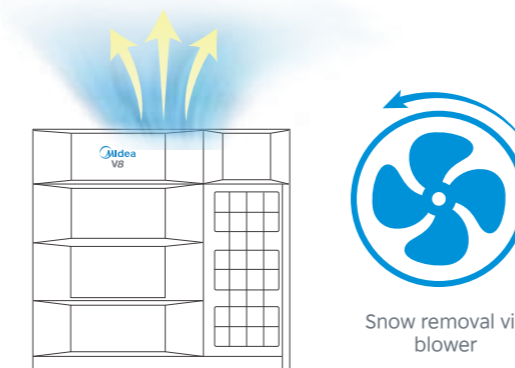
Outdoor Unit can resist 27 years of simulated severe corrosion under a salt contaminated traffic environment



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

Auto Snow-Removal Function

An innovative snow-removal function automatically blows off accumulated snow.



Auto Dust-Removal Function

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



Earthquake Proof Up to Magnitude 8*

Rugged, reinforced frame prevents tipping and deformation damage, providing earthquake resistance up to magnitude 8.



*Available as a customized option.

Powerful Wind Resistance*

A reinforced truss with double fastening ensures stable operation, even in the face of typhoon-strength winds up to category 17.





*Available as a customized 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

<p>Single unit 8-18HP</p> 	<p>Single unit 20-24HP</p> 	<p>Single unit 26-32HP</p> 
<p>Combined unit 34-64HP</p> 	<p>Combined unit 66-96HP</p> 	

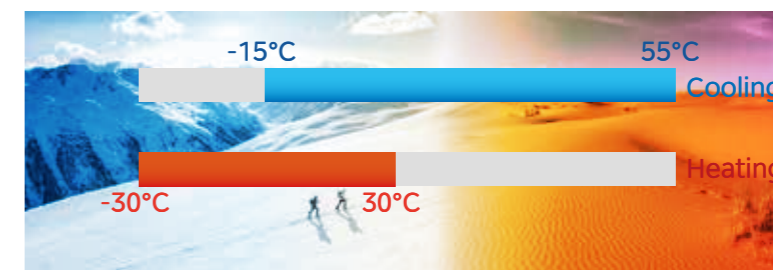
Wide Range of Indoor Units

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**

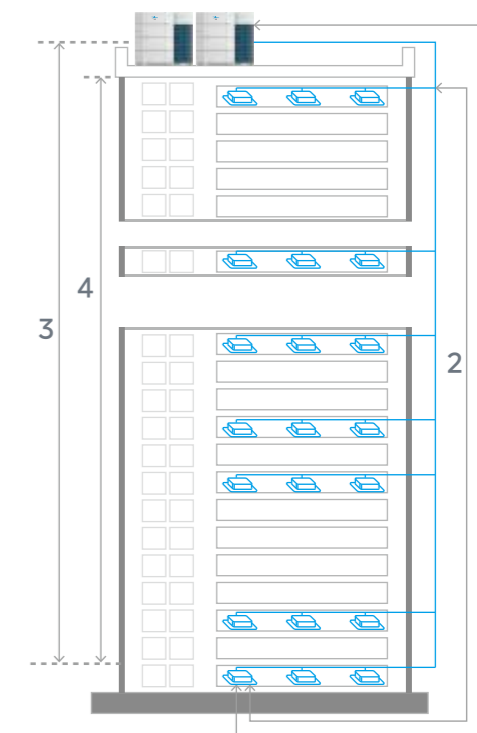
1 Longest piping length - actual (equivalent): **220(260)m**

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

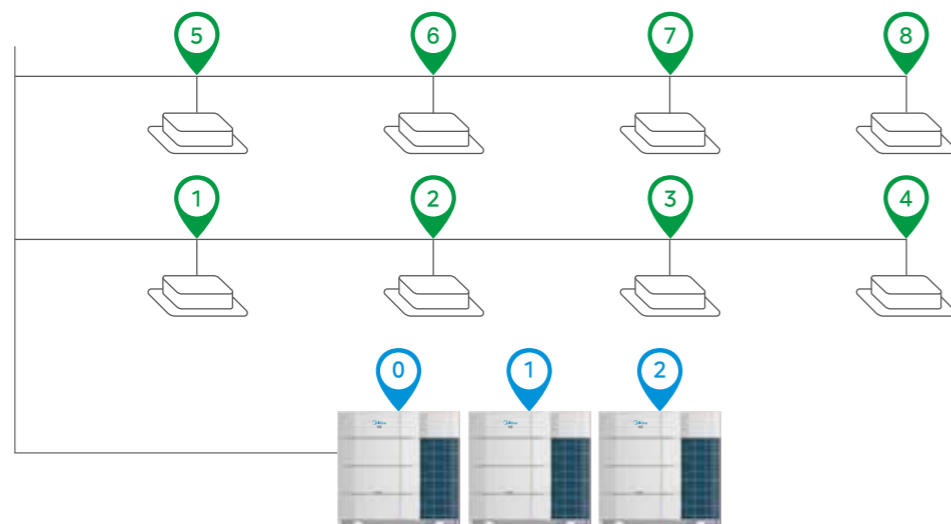
Free Wiring

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.



Auto Addressing

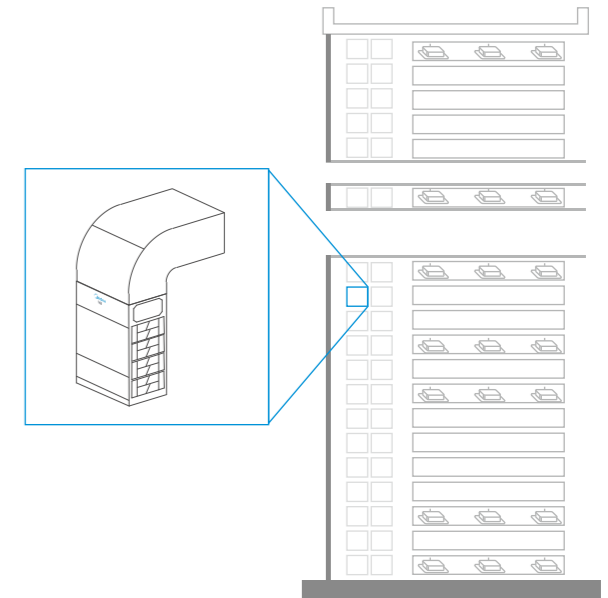
Addresses for all indoor units and combined outdoor units can be assigned automatically by the V8 system, further simplifying installation.



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 buildings or on balconies.

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



Automatic Refrigerant Charging*

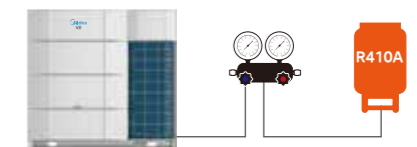
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

Manual refrigerant charging

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

Automatic refrigerant charging

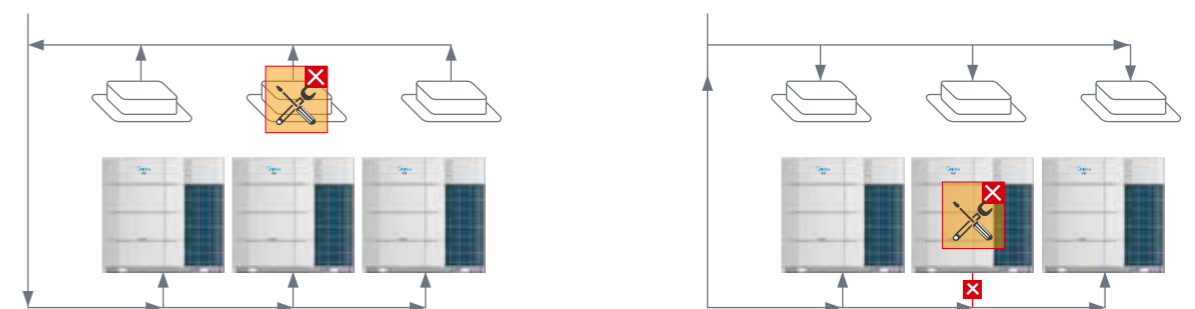
- 1 Connect refrigerant tank to the outdoor unit & activate automatic charging function
- 2 Close the shut-off valve automatically & finish the filling process



*Available as a customized option.

Automatic Refrigerant Recycling

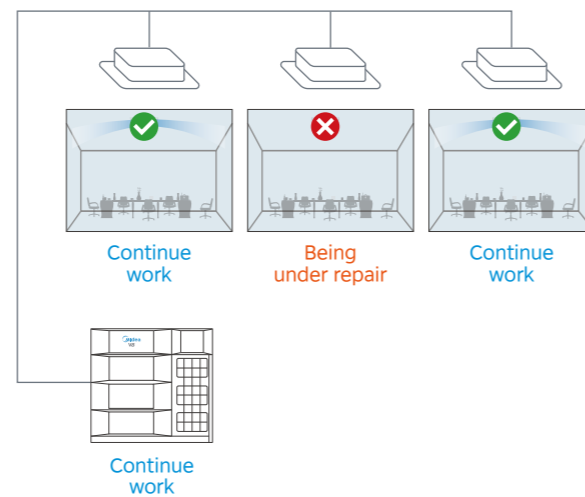
When an indoor unit requires maintenance, refrigerant can be transferred to the outdoor units for temporary storage. This feature also works in reverse when outdoor units need maintenance as refrigerant can be directed to the indoor units or other outdoors for temporary holding. This simplifies and expedites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



EASY INSTALLATION AND SERVICE

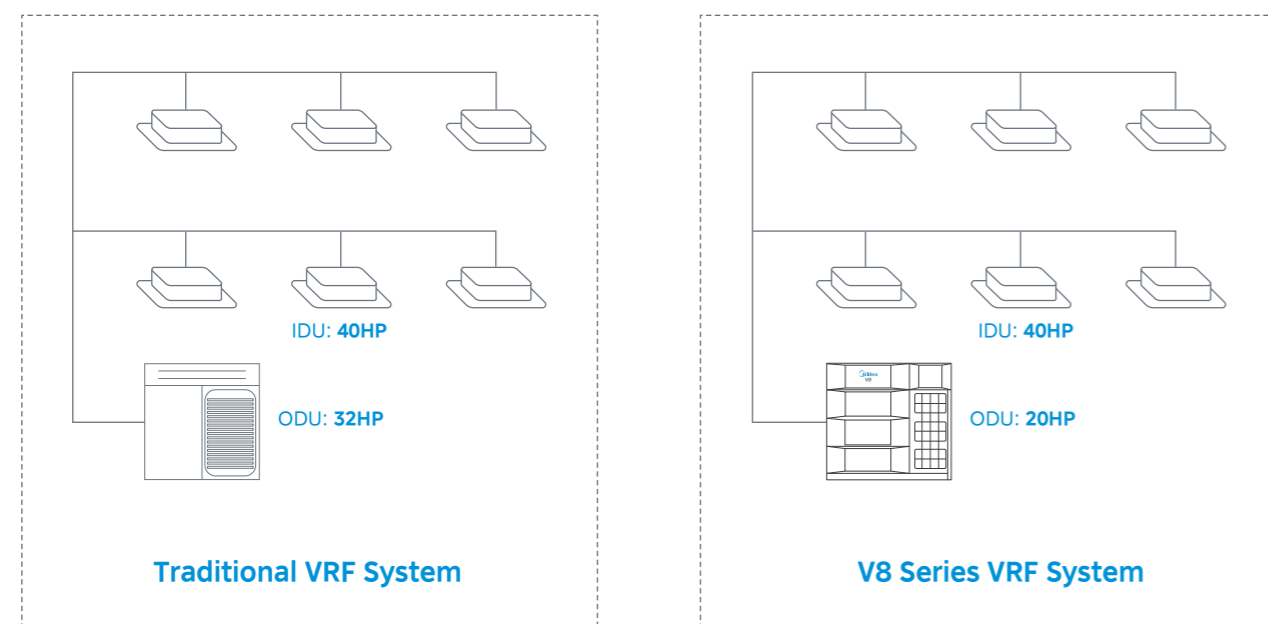
Maintenance Mode

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



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 customized 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.

*Data cloud gateway must be purchased separately.

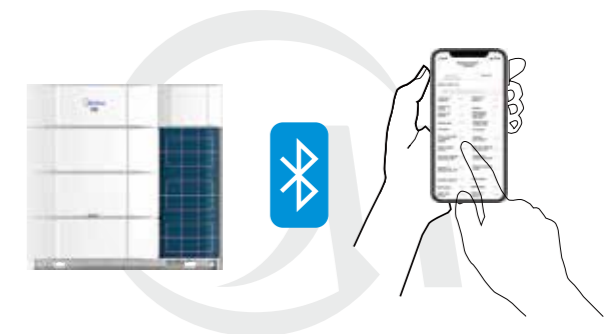


Smart Commissioning/Maintenance Tool

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.

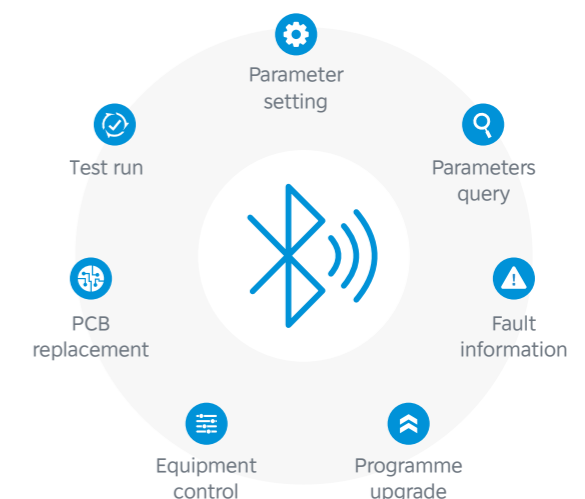
Useful in the following situations

- 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			MV8-252WV2GN1(SA)	MV8-280WV2GN1(SA)	MV8-335WV2GN1(SA)
Power supply	V/N/Hz		380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling (T1) ¹	Capacity	kW	25.2	27.9	33.6
		Btu/h	86000	95000	115000
	Power input	W	5790	6460	8215
	EER	Btu/(W.h)	14.85	14.70	14.00
Cooling (T3) ¹	Capacity	kW	22.2	24.6	28.2
		Btu/h	76000	84000	96000
	Power input	W	7160	8070	9365
	EER	Btu/(W.h)	10.60	10.40	10.25
Heating ²	Capacity	kW	25.2	27.9	33.6
		Btu/h	86000	95000	115000
	Power input	kW/kW	4.6	5.2	6.6
	COP		5.48	5.37	5.09
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		13	16	19
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan	Type		DC	DC	DC
	Quantity		1	1	1
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	12600	12600	13500
	Type		R410A	R410A	R410A
Pipe connections ³	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4
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	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	195	195	195
Gross weight		kg	213	213	213
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30

HP			14	16	18
Model name			MV8-400WV2GN1(SA)	MV8-450WV2GN1(SA)	MV8-500WV2GN1(SA)
Power supply	V/N/Hz		380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling (T1) ¹	Capacity	kW	40.0	45.0	50.0
		Btu/h	137000	154000	170000
	Power input	W	10150	13000	14525
	EER	Btu/(W.h)	13.50	11.85	11.70
Cooling (T3) ¹	Capacity	kW	33.6	37.2	41.5
		Btu/h	115000	127000	142000
	Power input	W	11440	13090	15185
	EER	Btu/(W.h)	10.05	9.70	9.35
Heating ²	Capacity	kW	40.0	45.0	50.0
		Btu/h	13800	154000	170000
	Power input	kW/kW	8.5	9.8	10.6
	COP		4.71	4.59	4.72
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		23	26	29
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan	Type		DC	DC	DC
	Quantity		1	1	1
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	15600	15600	16500
	Type		R410A	R410A	R410A
Pipe connections ³	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6
Sound pressure level ⁴		dB(A)	59	60	61
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	218	218	218
Gross weight		kg	236	236	236
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30

Notes:

- Cooling (T1) conditions: Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Cooling (T3) conditions: Indoor air temperature 29°C DB, 19°C WB; outdoor air temperature 46°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Heating conditions: Indoor air temperature 20°C DB; outdoor air 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.
- The above capacity table was measured according to ISO 16358-1 SASO 2874

HP			20	22	24
Model name			MV8-560WV2GN1(SA)	MV8-615WV2GN1(SA)	MV8-670WV2GN1(SA)
Power supply	V/N/Hz		380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling (T1) ¹	Capacity	kW	56.0	61.5	67.0
		Btu/h	190000	210000	228000
	Power input	W	15890	18420	18530
	EER	Btu/(W.h)	11.95	11.40	12.30
Cooling (T3) ¹	Capacity	kW	44.0	46.0	52.0
		Btu/h	150000	156000	178000
	Power input	W	14850	15755	16635
	EER	Btu/(W.h)	10.10	9.90	10.70
Heating ²	Capacity	kW	56.0	61.5	67.0
		Btu/h	190000	210000	228000
	Power input	kW/kW	12.7	15.0	14.9
	COP		4.41	4.10	4.50
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		33	36	39
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan	Type		DC	DC	DC
	Quantity		2	2	2
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	22000	22000	21500
	Type		R410A	R410A	R410A
Pipe connections ³	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6
Sound pressure level ⁴		dB(A)	62	62	62
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1410×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	277	277	297
Gross weight		kg	297	297	317
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30

HP			26	28	30	32
Model name			MV8-730WV2GN1(SA)	MV8-785WV2GN1(SA)	MV8-850WV2GN1(SA)	MV8-900WV2GN1(SA)
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 (T1) ¹	Capacity	kW	73.0	78.5	85.0	90.0
		Btu/h	250000	268000	290000	308000
	Power input	W	22320	26270	25320	27870
	EER	Btu/(W.h)	11.20	10.20	11.45	11.05
Cooling (T3) ¹	Capacity	kW	57.0	61.0	62.5	63.5
		Btu/h	194000	208000	214000	216000
	Power input	W	21080	23500	22060	22610
	EER	Btu/(W.h)	9.20	8.85	9.70	9.55
Heating ²	Capacity	kW	73.0	78.5	85.0	90.0
		Btu/h	250000	268000	290000	308000
	Power input	kW/kW	17.6	20.7	23.0	25.7
	COP		4.15	3.79	3.70	3.50
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity			
	Maximum quantity		43	46	50	53
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2
Fan	Type		DC	DC	DC	DC
	Quantity		2	2	2	2
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)			
	Airflow rate	m ³ /h	29000	29000	28000	28000
	Type		R410A	R410A	R410A	R410A
Pipe connections ³	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ31.8	Φ31.8	Φ34.9	Φ34.9
Sound pressure level ⁴		dB(A)	62	63	64	64
Net dimensions (W×H×D)		mm	1880×1760×825	1880×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1935×1945×890	1935×1945×890	1935×1945×890	1935×1945×890
Net weight		kg	380	380	419	419
Gross weight		kg	405	405	444	444
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:

- Cooling (T1) conditions: Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Cooling (T3) conditions: Indoor air temperature 29°C DB, 19°C WB; outdoor air temperature 46°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Heating conditions: Indoor air temperature 20°C DB; outdoor air 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.
- The above capacity table was measured according to ISO 16358-1 SASO 2874

Specifications

V8 (Combinable series)

HP		34	36	38	40
Model name		MV8-950WV2GN1(SA)	MV8-1000WV2GN1(SA)	MV8-1070WV2GN1(SA)	MV8-1120WV2GN1(SA)
Combination type		16HP+18HP	18HP+18HP	14HP+24HP	16HP+24HP
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 (T1) ¹	Capacity	kW 95	100.0	107.0	112.0
	Power input	W 324000	340000	360000	382000
	EER	Btu/(W.h) 27525	29050	28750	31530
	EER	Btu/(W.h) 11.77	11.70	12.73	12.12
Cooling (T3) ¹	Capacity	kW 78.7	83	85.6	89.2
	Power input	W 269000	284000	293000	305000
	EER	Btu/(W.h) 28275	30370	28075	29725
	EER	Btu/(W.h) 9.51	9.35	10.44	10.26
Heating ²	Capacity	kW 95.0	100.0	107.0	112.0
	Power input	kBtu/h 324000	340000	360000	382000
	COP	kW/kW 20.4	21.2	23.4	24.7
	COP	kW/kW 4.66	4.72	4.57	4.53
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity			
	Maximum quantity	56	59	62	64
Compressor	Type	DC inverter			
	Quantity	2	2	2	2
Fan	Type	DC			
	Quantity	2	2	3	3
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	32100	33000	37100
	Type	R410A	R410A	R410A	R410A
Pipe connections ³	Factory charge	kg 8+8.4	8.4+2	8+12	8+12
	Liquid pipe	mm φ19.1	φ19.1	φ19.1	φ19.1
Sound pressure level ⁴	Gas pipe	mm φ31.8	φ38.1	φ38.1	φ38.1
	dB(A)	64	64	64	64
Net dimensions (W×H×D)		mm (940×1760×825)×2	(940×1760×825)×2	(940×1760×825)+ (1340×1760×825)	(940×1760×825)+ (1340×1760×825)
Packed dimensions (W×H×D)		mm (1010×1945×890)×2	(1010×1945×890)×2	(1010×1945×890)+ (1410×1945×890)	(1010×1945×890)+ (1410×1945×890)
Net weight		kg 218×2	218×2	218+297	218+297
Gross weight		kg 236×2	236×2	236+317	236+317
Ambient temp. operation range	Cooling	°C -15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C -30 to 30	-30 to 30	-30 to 30	-30 to 30

HP		42	44	46	48
Model name		MV8-1185WV2GN1(SA)	MV8-1235WV2GN1(SA)	MV8-1285WV2GN1(SA)	MV8-1345WV2GN1(SA)
Combination type		14HP+28HP	16HP+28HP	18HP+28HP	20HP+28HP
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 (T1) ¹	Capacity	kW 118.5	123.5	128.5	134.5
	Power input	W 406000	422000	438000	458000
	EER	Btu/(W.h) 36490	39270	40795	42160
	EER	Btu/(W.h) 11.13	10.75	10.74	10.86
Cooling (T3) ¹	Capacity	kW 94.6	98.2	102.5	105
	Power input	W 323000	335000	350000	358000
	EER	Btu/(W.h) 34940	36590	38685	38350
	EER	Btu/(W.h) 9.24	9.16	9.05	9.34
Heating ²	Capacity	kW 118.5	123.5	128.5	134.5
	Power input	kBtu/h 406000	422000	438000	458000
	COP	kW/kW 29.2	30.5	31.3	33.4
	COP	kW/kW 4.06	4.05	4.11	4.03
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity			
	Maximum quantity	64	64	64	64
Compressor	Type	DC inverter			
	Quantity	3	3	3	3
Fan	Type	DC			
	Quantity	3	3	3	4
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	44600	44600	45500
	Type	R410A	R410A	R410A	R410A
Pipe connections ³	Factory charge	kg 8+19	8+19	8.4+19	9.3+19
	Liquid pipe	mm φ19.1	φ19.1	φ19.1	φ19.1
Sound pressure level ⁴	Gas pipe	mm φ38.1	φ38.1	φ38.1	φ38.1
	dB(A)	65	65	65	65
Net dimensions (W×H×D)		mm (940×1760×825)+ (1880×1760×825)	(940×1760×825)+ (1880×1760×825)	(940×1760×825)+ (1880×1760×825)	(1340×1760×825)+ (1880×1760×825)
Packed dimensions (W×H×D)		mm (1010×1945×890)+ (1935×1945×890)	(1010×1945×890)+ (1935×1945×890)	(1010×1945×890)+ (1935×1945×890)	(1410×1945×890)+ (1935×1945×890)
Net weight		kg 218+380	218+380	218+380	277+380
Gross weight		kg 236+405	236+405	236+405	297+405
Ambient temp. operation range	Cooling	°C -15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C -30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:

- Cooling (T1) conditions: Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference. Cooling (T3) conditions: Indoor air temperature 29°C DB, 19°C WB; outdoor air temperature 46°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Heating conditions: Indoor air temperature 20°C DB; outdoor air 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.
- The above capacity table was measured according to ISO 16358-1 SASO 2874

HP		50	52	54	56
Model name		MV8-1400WV2GN1(SA)	MV8-1455WV2GN1(SA)	MV8-1515WV2GN1(SA)	MV8-1570WV2GN1(SA)
Combination type		22HP+28HP	24HP+28HP	26HP+28HP	28HP+28HP
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 (T1) ¹	Capacity	kW 140.0	145.5	151.5	157.0
	Power input	W 478000	496000	518000	536000
	EER	Btu/(W.h) 44690	44800	48590	52540
	EER	Btu/(W.h) 10.70	11.07	10.66	10.20
Cooling (T3) ¹	Capacity	kW 107	113	118	122
	Power input	W 364000	386000	402000	416000
	EER	Btu/(W.h) 39255	40135	44580	47000
	EER	Btu/(W.h) 9.27	9.62	9.02	8.85
Heating ²	Capacity	kW 140.0	145.5	151.5	157.0
	Power input	kBtu/h 478000	496000	518000	536000
	COP	kW/kW 35.7	35.6	38.3	41.4
	COP	kW/kW 3.92	4.09	3.96	3.79
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity			
	Maximum quantity	64	64	64	64
Compressor	Type	DC inverter			
	Quantity	4	4	4	4
Fan	Type	DC			
	Quantity	4	4	4	4
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	51000	50500	58000
	Type	R410A	R410A	R410A	R410A
Pipe connections ³	Factory charge	kg 9.3+19	12+19	19×2	19×2
	Liquid pipe	mm φ19.1	φ19.1	φ19.1	φ19.1
Sound pressure level ⁴	Gas pipe	mm φ38.1	φ38.1	φ38.1	φ41.3
	dB(A)	66	66	66	66
Net dimensions (W×H×D)		mm (1340×1760×825)+ (1880×1760×825)	(1340×1760×825)+ (1880×1760×825)	(1880×1760×825)×2	(1880×1760×825)×2
Packed dimensions (W×H×D)		mm (1410×1945×890)+ (1935×1945×890)	(1410×1945×890)+ (1935×1945×890)	(1935×1945×890)×2	(1935×1945×890)×2
Net weight		kg 277+380	297+380	380×2	380×2
Gross weight		kg 297+405	317+405	405×2	405×2
Ambient temp. operation range	Cooling	°C -15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C -30 to 30	-30 to 30	-30 to 30	-30 to 30

HP		58	60	62	64
Model name		MV8-1630WV2GN1(SA)	MV8-1685WV2GN1(SA)	MV8-1750WV2GN1(SA)	MV8-1800WV2GN1(SA)
Combination type		26HP+32HP	28HP+32HP	30HP+32HP	32HP+32HP
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 (T1) ¹	Capacity	kW 163.0	168.5	175.0	180.0
	Power input	W 558000	576000	598000	616000
	EER	Btu/(W.h) 50190	54140	53190	55740
	EER	Btu/(W.h) 11.12	10.64	11.24	11.05
Cooling (T3) ¹	Capacity	kW 120.5	124.5	126	127
	Power input	W 410000	424000	430000	432000
	EER	Btu/(W.h) 43690	46110	44670	45220
	EER	Btu/(W.h) 9.38	9.20	9.63	9.55
Heating ²	Capacity	kW 163.0	168.5	175.0	180.0
	Power input	kBtu/h 558000	576000	598000	616000
	COP	kW/kW 43.3	46.4	48.7	51.4
	COP	kW/kW 3.76	3.63	3.59	3.5
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity			
	Maximum quantity	64	64	64	64
Compressor	Type	DC inverter			
	Quantity	4	4	4	4
Fan	Type	DC			
	Quantity	4	4	4	4
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	57000	57000	56000
	Type	R410A	R410A	R410A	R410A
Pipe connections ³	Factory charge	kg 19+21	19+21	21×2	21×2
	Liquid pipe	mm φ19.1	φ19.1	φ19.1	φ19.1
Sound pressure level ⁴	Gas pipe	mm φ41.3	φ41.3	φ41.3	φ41.3
	dB(A)	66	67	67	67
Net dimensions (W×H×D)		mm (1880×1760×825)×2	(1880×1760×825)×2	(1880×1760×825)×2	(1880×1760×825)×2
Packed dimensions (W×H×D)		mm (1935×1945×890)×2	(1935×1945×890)×2	(1935×1945×890)×2	(1935×1945×890)×2
Net weight		kg 380+419	380+419	419×2	419×2
Gross weight		kg 405+444	405+444	444×2	444×2
Ambient temp. operation range	Cooling	°C -15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C -30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:

- Cooling (T1) conditions: Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference. Cooling (T3) conditions: Indoor air temperature 29°C DB, 19°C WB; outdoor air temperature 46°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Heating conditions: Indoor air temperature 20°C DB; outdoor air 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.
- The above capacity table was measured according to ISO 16358-1 SASO 2874

Specifications

V8 (Combinable series)

HP		66	68	70	72
Model name		MV8-1850WV2GN1(SA)	MV8-1900WV2GN1(SA)	MV8-1970WV2GN1(SA)	MV8-2020WV2GN1(SA)
Combination type		16HP+18HP+32HP	18HP+18HP+32HP	14HP+24HP+32HP	16HP+24HP+32HP
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 (T1) ¹	Capacity	kW 185.0	190.0	197.0	202.0
	Power input	Btu/h 632000	648000	674000	690000
	EER	W 55395	56920	56620	59400
	EER	Btu/(W.h) 11.41	11.38	11.90	11.62
Cooling (T3) ¹	Capacity	kW 142.2	146.5	149.1	152.7
	Power input	Btu/h 485000	500000	509000	521000
	EER	W 50885	52980	50685	52335
	EER	Btu/(W.h) 9.53	9.44	10.04	9.96
Heating ²	Capacity	kW 185.0	190.0	197.0	202.0
	Power input	kBtu/h 632000	648000	674000	690000
	COP	kW 46.1	46.9	49.1	50.4
	COP	kW/kW 4.01	4.05	4.01	4.01
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity			
	Maximum quantity	64	64	64	64
Compressor	Type	DC inverter			
	Quantity	4	4	4	4
Fan	Type	DC			
	Quantity	4	4	5	5
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	60100	61000	65100
	Type	R410A	R410A	R410A	R410A
Pipe connections ³	Factory charge	kg	8+8.4+21	8.4+2+21	8+12+21
	Liquid pipe	mm	Φ19.1	Φ22.2	Φ22.2
Sound pressure level ⁴	Gas pipe	mm	Φ41.3	Φ44.5	Φ44.5
	dB(A)	67	67	67	67
Net dimensions (W×H×D)		mm	(940×1760×825)×2+ (1880×1760×825)	(940×1760×825)×2+ (1880×1760×825)	(940×1760×825)×2+ (1340×1760×825)+(1880×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2+ (1935×1945×890)	(1010×1945×890)×2+ (1935×1945×890)	(1010×1945×890)×2+ (1405×1945×890)+(1935×1945×890)
Net weight		kg	218×2+419	218×2+419	218×2+419
Gross weight		kg	236×2+444	236×2+444	236×2+444
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30

HP		74	76	78	80
Model name		MV8-2085WV2GN1(SA)	MV8-2135WV2GN1(SA)	MV8-2185WV2GN1(SA)	MV8-2245WV2GN1(SA)
Combination type		14HP+28HP+32HP	16HP+28HP+32HP	18HP+28HP+32HP	20HP+28HP+32HP
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 (T1) ¹	Capacity	kW 208.5	213.5	218.5	224.5
	Power input	Btu/h 714000	730000	746000	766000
	EER	W 64360	67140	68665	70030
	EER	Btu/(W.h) 11.09	10.87	10.86	10.94
Cooling (T3) ¹	Capacity	kW 158.1	161.7	166	168.5
	Power input	Btu/h 539000	551000	566000	574000
	EER	W 57550	59200	61295	60960
	EER	Btu/(W.h) 9.37	9.31	9.23	9.42
Heating ²	Capacity	kW 208.5	213.5	218.5	224.5
	Power input	kBtu/h 714000	730000	746000	766000
	COP	kW 54.9	56.2	57	59.1
	COP	kW/kW 3.8	3.8	3.83	3.8
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity			
	Maximum quantity	64	64	64	64
Compressor	Type	DC inverter			
	Quantity	5	5	5	5
Fan	Type	DC			
	Quantity	5	5	5	6
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	72600	72600	73500
	Type	R410A	R410A	R410A	R410A
Pipe connections ³	Factory charge	kg	8+19+21	8+19+21	8.4+19+21
	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
Sound pressure level ⁴	Gas pipe	mm	Φ44.5	Φ44.5	Φ44.5
	dB(A)	67	68	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)×2+ (1880×1760×825)×2	(940×1760×825)×2+ (1880×1760×825)×2	(940×1760×825)×2+ (1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2+ (1935×1945×890)×2	(1010×1945×890)×2+ (1935×1945×890)×2	(1010×1945×890)×2+ (1410×1945×890)×2
Net weight		kg	218+380+419	218+380+419	277+380+419
Gross weight		kg	236+405+444	236+405+444	297+405+444
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30

Notes:

- Cooling (T1) conditions: Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference. Cooling (T3) conditions: Indoor air temperature 29°C DB, 19°C WB; outdoor air temperature 46°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Heating conditions: Indoor air temperature 20°C DB; outdoor air 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.
- The above capacity table was measured according to ISO 16358-1 SASO 2874

HP		82	84	86	88
Model name		MV8-2300WV2GN1(SA)	MV8-2355WV2GN1(SA)	MV8-2415WV2GN1(SA)	MV8-2470WV2GN1(SA)
Combination type		22HP+28HP+32HP	24HP+28HP+32HP	26HP+28HP+32HP	28HP+28HP+32HP
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 (T1) ¹	Capacity	kW 230.0	235.5	241.5	247.0
	Power input	Btu/h 786000	804000	826000	844000
	EER	W 72560	72670	76460	80410
	EER	Btu/(W.h) 10.83	11.06	10.80	10.50
Cooling (T3) ¹	Capacity	kW 170.5	176.5	181.5	185.5
	Power input	Btu/h 580000	602000	618000	632000
	EER	W 61865	62745	67190	69610
	EER	Btu/(W.h) 9.38	9.59	9.20	9.08
Heating ²	Capacity	kW 230.0	235.5	241.5	247.0
	Power input	kBtu/h 786000	804000	826000	844000
	COP	kW 61.4	61.3	64	67.1
	COP	kW/kW 3.75	3.84	3.77	3.68
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity			
	Maximum quantity	64	64	64	64
Compressor	Type	DC inverter			
	Quantity	5	5	5	5
Fan	Type	DC			
	Quantity	6	6	6	6
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	79000	78500	86000
	Type	R410A	R410A	R410A	R410A
Pipe connections ³	Factory charge	kg	9.3+19+21	12+19+21	19×2+21
	Liquid pipe	mm	Φ22.2	Φ25.4	Φ25.4
Sound pressure level ⁴	Gas pipe	mm	Φ44.5	Φ50.8	Φ50.8
	dB(A)	68	68	68	68
Net dimensions (W×H×D)		mm	(1340×1760×825)×2+ (1880×1760×825)×2	(1340×1760×825)×2+ (1880×1760×825)×2	(1880×1760×825)×3
Packed dimensions (W×H×D)		mm	(1410×1945×890)×2+ (1935×1945×890)×2	(1410×1945×890)×2+ (1935×1945×890)×2	(1935×1945×890)×3
Net weight		kg	277+380+419	297+380+419	380×2+419
Gross weight		kg	297+405+444	317+405+444	405×2+444
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30

HP		90	92	94	96
Model name		MV8-2530WV2GN1(SA)	MV8-2585WV2GN1(SA)	MV8-2650WV2GN1(SA)	MV8-2700WV2GN1(SA)
Combination type		26HP+32HP+32HP	28HP+32HP+32HP	30HP+32HP+32HP	32HP+32HP+32HP
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 (T1) ¹	Capacity	kW 253.0	258.5	265.0	270.0
	Power input	Btu/h 866000	884000	906000	924000
	EER	W 78060	82010	81060	83610
	EER	Btu/(W.h) 11.09	10.78	11.18	11.05
Cooling (T3) ¹	Capacity	kW 184	188	189.5	190.5
	Power input	Btu/h 626000	640000	646000	648000
	EER	W 66300	68720	67280	67830
	EER	Btu/(W.h) 9.44	9.31	9.60	9.55
Heating ²	Capacity	kW 253.0	258.5	265.0	270.0
	Power input	kBtu/h 866000	884000	906000	924000
	COP	kW 69	72.1	74.4	77.1
	COP	kW/kW 3.67	3.59	3.56	3.5
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity			
	Maximum quantity	64	64	64	64
Compressor	Type	DC inverter			
	Quantity	6	6	6	6
Fan	Type	DC			
	Quantity	6	6	6	6
Refrigerant	Static pressure	Pa	0-20 (standard)20-120 (customized)		
	Airflow rate	m ³ /h	85000	85000	84000
	Type	R410A	R410A	R410A	R410A
Pipe connections ³	Factory charge	kg	19+21×2	19+21×2	21×3
	Liquid pipe	mm	Φ25.4	Φ25.4	Φ25.4
Sound pressure level ⁴	Gas pipe	mm	Φ50.8	Φ50.8	Φ50.8
	dB(A)	68	69	69	69
Net dimensions (W×H×D)		mm	(1880×1760×825)×3	(1880×1760×825)×3	(1880×1760×825)×3
Packed dimensions (W×H×D)		mm	(1935×1945×890)×3	(1935×1945×890)×3	(1935×1945×890)×3
Net weight		kg	380+419×2	380+419×2	419×3
Gross weight		kg	405+444×2	405+444×2	444×3
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30

Notes:

- Cooling (T1) conditions: Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference. Cooling (T3) conditions: Indoor air temperature 29°C DB, 19°C WB; outdoor air temperature 46°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Heating conditions: Indoor air temperature 20°C DB; outdoor air 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.
- The above capacity table was measured according to ISO 16358-1 SASO 2874