



DISCOVER
easyCOMFORT

Midea Group
Midea Building Technologies Division

C-V8SSASO202506

Add.: Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China
Postal code: 528311
mbt.midea.com/global www.midea-group.com ics.midea.com
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V8S VRF

DISCOVER
RELIABLE COMFORT

2025

MBT

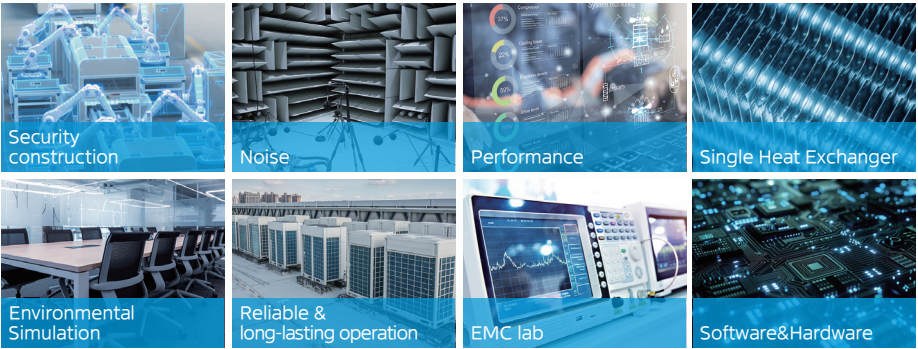
Midea Building Technologies (MBT) is a key division of the Midea Group, a leading provider of comprehensive, intelligent-building solutions including energy sources, elevators, control systems and heating, ventilation and air conditioning.

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.

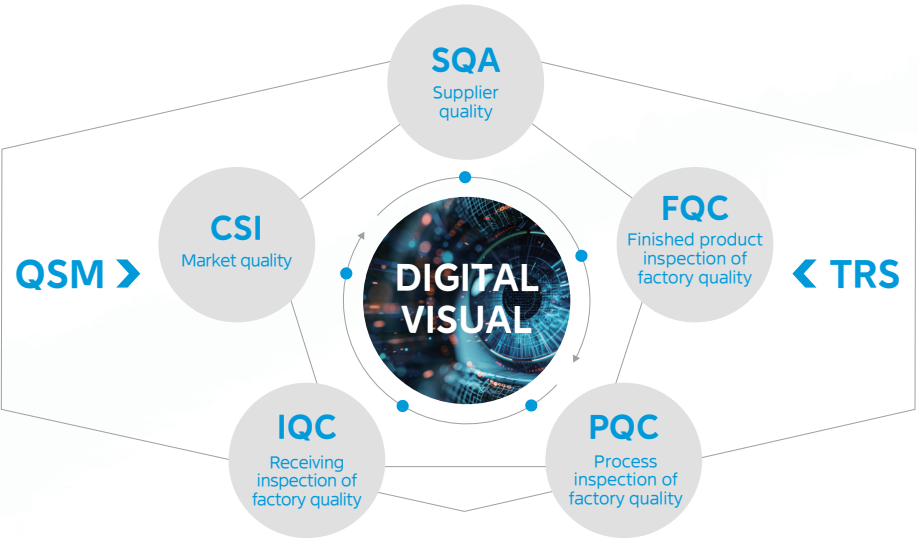
Committed to providing users with intelligent, digital, low carbon overall building solution



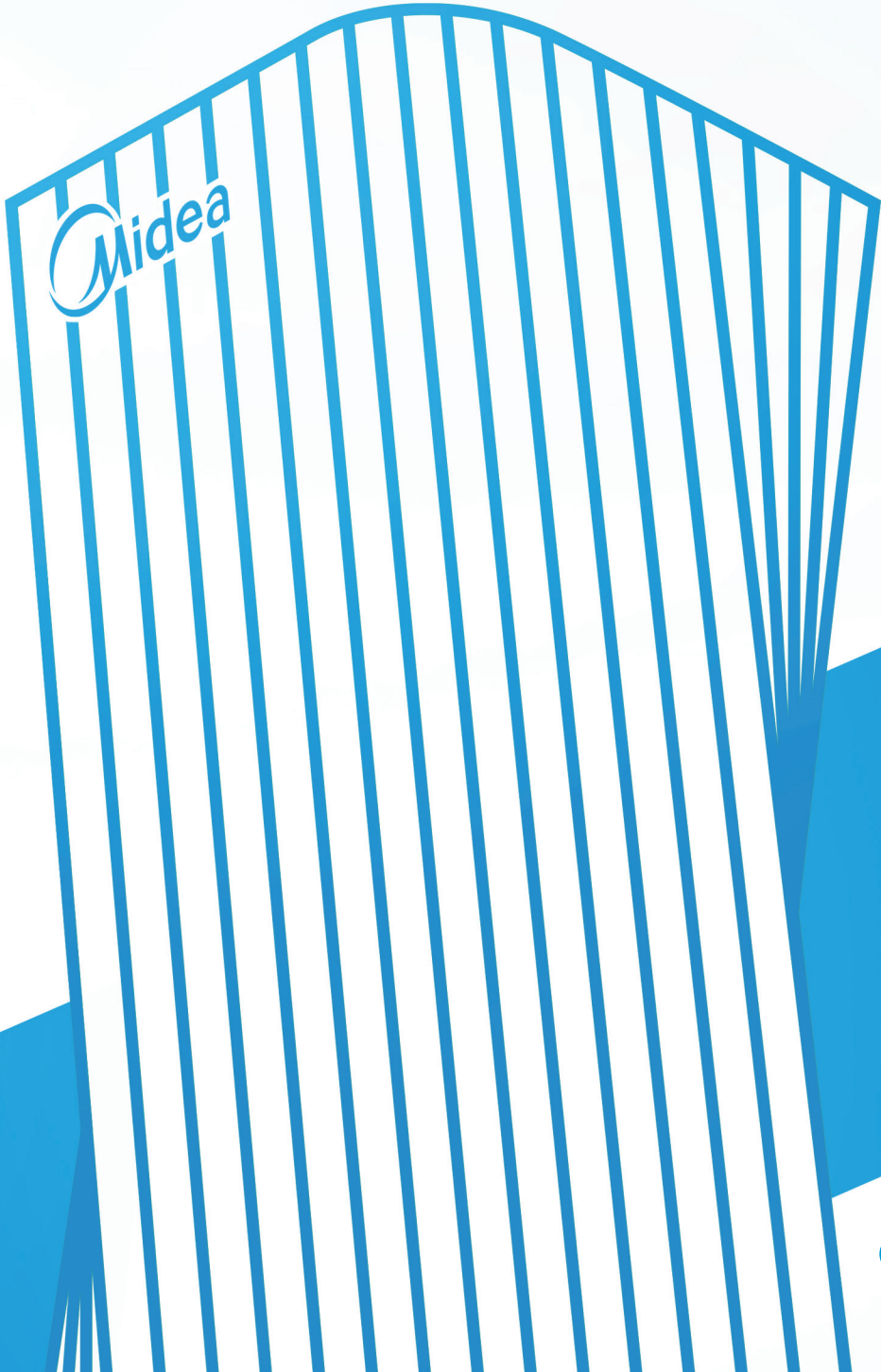
Over 100 testing labs cover a wide range of real application scenarios.



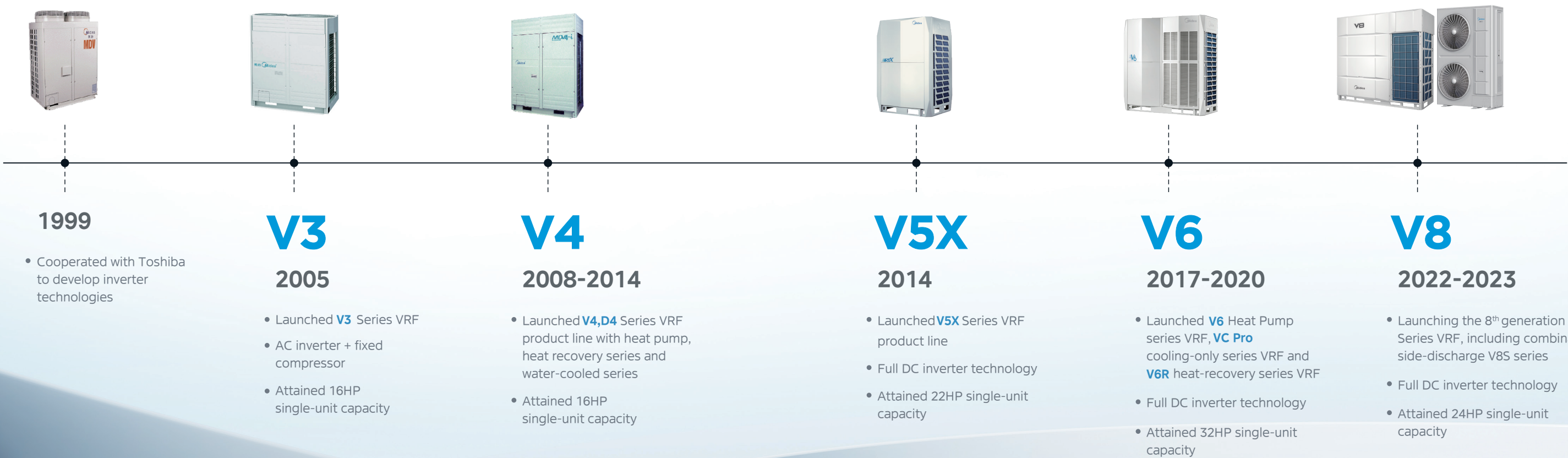
All products can be visualized and digitalized throughout entire process.



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



MIDEA VRF HISTORY



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

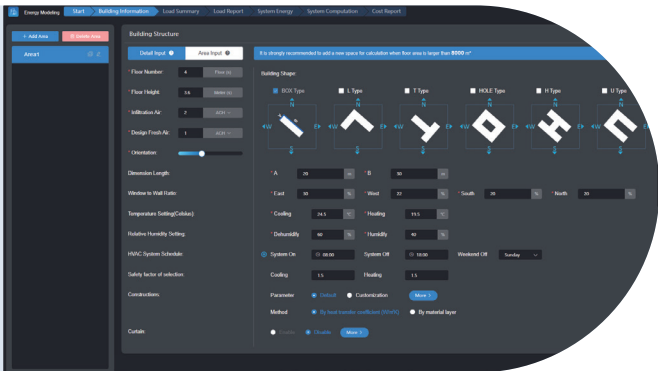
BIM Building Information Import

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



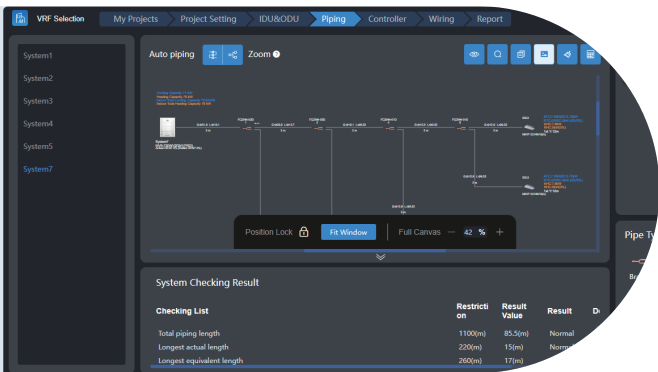
Building Energy Estimation

- 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



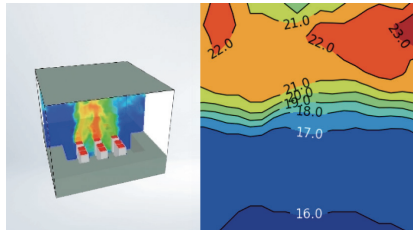
Installation Service



Automatic refrigerant charging

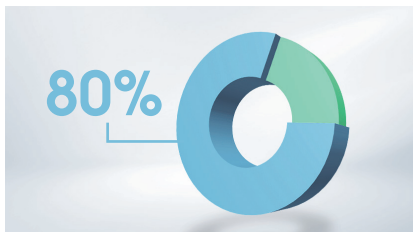


Automatic commissioning reporting



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.

Q > <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.

Q > <https://link.midea.com>  



GLOBAL BULK WAREHOUSE LAYOUT OVERVIEW



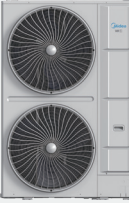
V8S

The V8S 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.



V8S VRF Lineup

Outdoor Unit

HP	8-14	16-24
Single Unit		

HP	26-48	50-72
Combined Unit		

HP	74-96
Combined Unit	

Outdoor Unit Features

Features			V8S
Innovative Technologies	HyperLink	Midea proprietary communication bus chip greatly simplifies installation, saving associated costs.	●
	SuperSense	18 sensors monitor every component of the refrigerant pipeline to ensure optimal performance.	●
	Meta 2.0	Triple variable control maximizes comfort and energy efficiency.	●
	Zen air 2.0	Maximizes comfort while ensuring a supply of healthy indoor air.	●
	Doctor M 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient.	●
High Efficiency	Full DC inverter technology	All indoor and outdoor unit electrical components utilize DC power supply, improving efficiency and saving energy.	●
	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.	●
	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.	●

● standard feature ○ customization option

Features			V8S
	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 (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	○
High Reliability	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.	●
	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

Outdoor Unit Features

Features			V8S
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.	8-24HP (single) 26-96HP (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).	●

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

● standard feature ○ customization option

Features			V8S
Easy Installation And Service	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 80Pa ESP enables longer duct runs providing greater installation flexibility.	0-35Pa ● 35-80Pa ○
	Flexible communication wire topology	Supports any communication topology, greatly simplifying installation and reducing installation cost.	●
	2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures.	●
	Extended communication wiring capability	Communication wiring capability up to 2000m offers more flexible installation options.	●
	Wide combination ratio	Combination ration can be extended to 50%-200% under certain conditions which can meet different project requirements.	50-130% ● 50-200% (for single unit system) ○
	Supports manual and automatic defrosting	Improves maintenance efficiency.	●
	Supports manual and automatic oil return	Improves maintenance efficiency.	●
	Easy software update*	The software can be updated on site via USB, or remotely via the web.	●
	Flexible controller connectivity	The central controller and BMS gateway can simultaneously connect to the ODU while the central controller can connect either the ODU or IDU.	●
	Refrigerant volume monitoring	The unit can diagnose excessive or insufficient amounts of refrigerant, and alert maintenance personnel, helping to prevent system malfunction.	●
	Easy system commissioning and inspection*	System commissioning and inspection can easily be conducted on-site or remotely via the web.	●
	Intelligent maintenance tool	Intelligent Bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency.	○

● standard feature ○ customization option

INNOVATIVE TECHNOLOGIES

HyperLink

 **ETA 2.0**

 **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

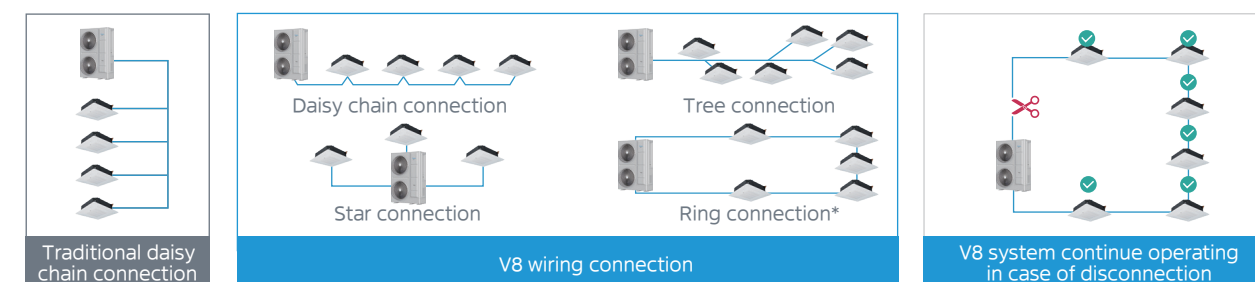


Stable operation

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

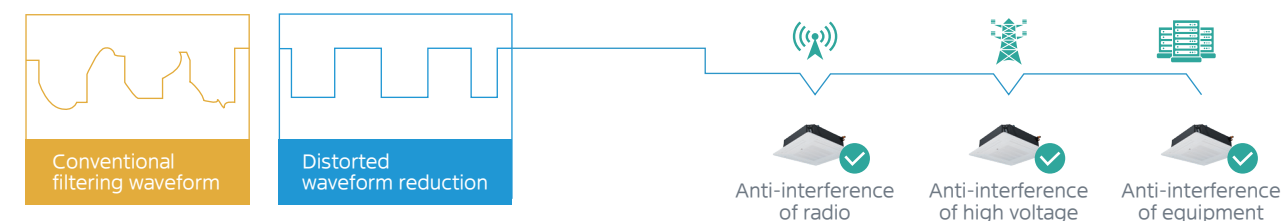
In addition to the traditional daisy chain connection, multiple wiring topologies are supported including serial, tree and ring connections. This flexibility reduces installation costs while eliminating potential wiring errors.



*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).

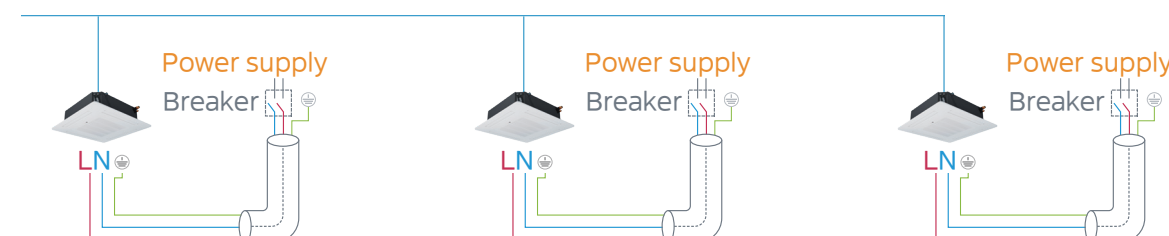
Super Anti-interference Capability

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.



SuperSense

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

Benefits



High reliability



Stable operation

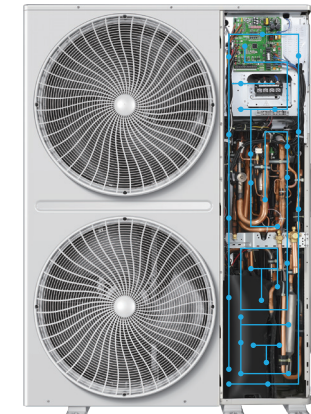


Enhanced comfort

Up to 18 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.

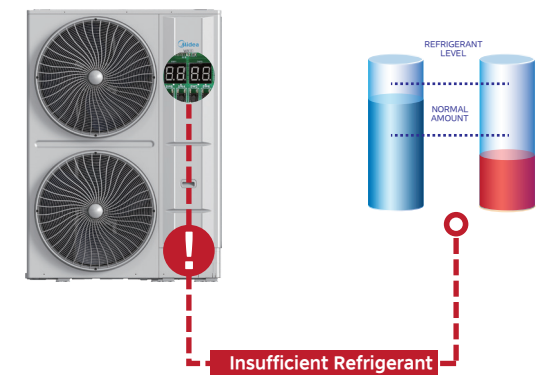
Comprehensive Sensor Grid

The V8S Series VRF incorporates advanced refrigerant monitoring technology, equipped with 18 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.



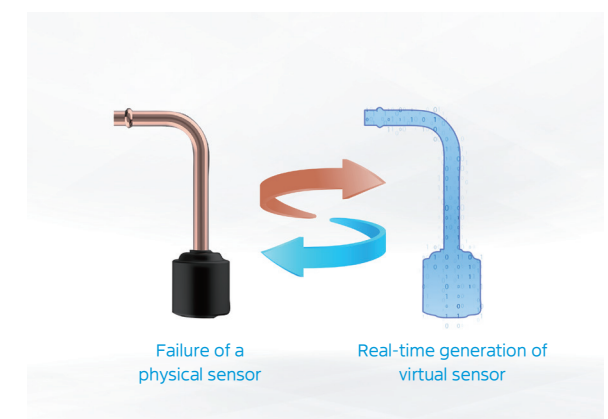
Refrigerant Volume Monitoring

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.

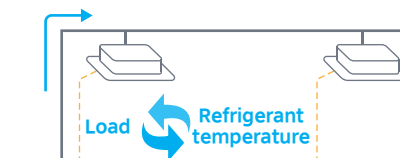


Variable Refrigerant Temperature

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.



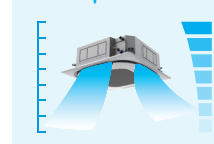
Variable Indoor Airflow

STEP 3

Adaptive indoor airflow and refrigerant flow

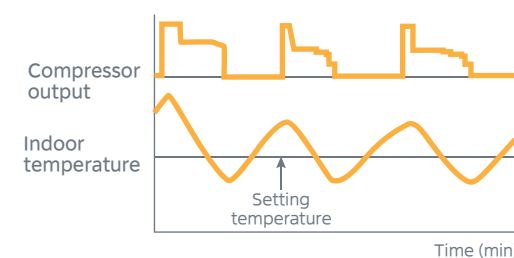
Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise

7 fan speeds

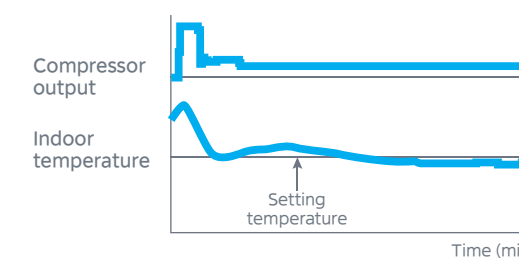


Automatic indoor airflow adjustment based on the calculated load and refrigerant temperature.

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



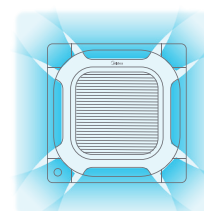
Enhanced comfort



Healthy

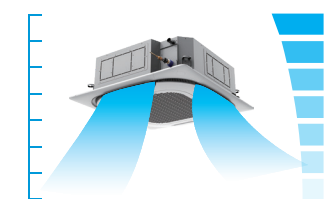
360° Airflow

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



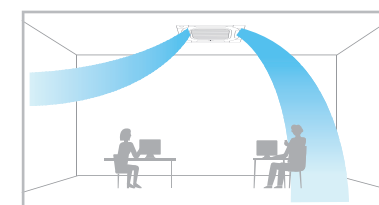
7 Fan Speeds

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.

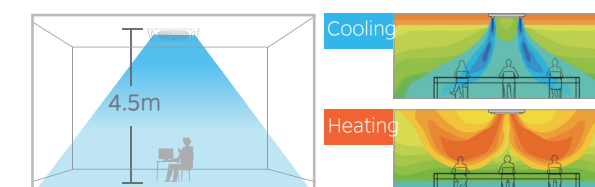


*Temperature on left is for reference.

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

Benefits



Easy maintenance



Fast maintenance



Low maintenance cost

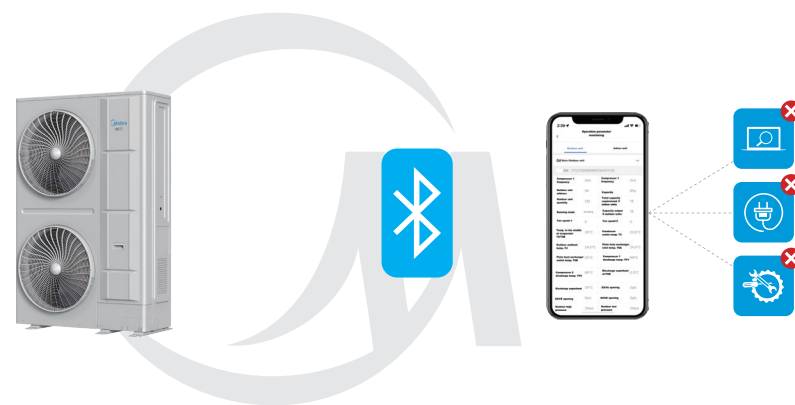


By harnessing a cloud-based platform powered by big data and artificial intelligence, the V8 Series VRF system monitors the real-time operation status of each unit, predicts potential system malfunctions and proactively recommends service or maintenance. An intelligent Bluetooth module and after-sales 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 V8S 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 V8S 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.

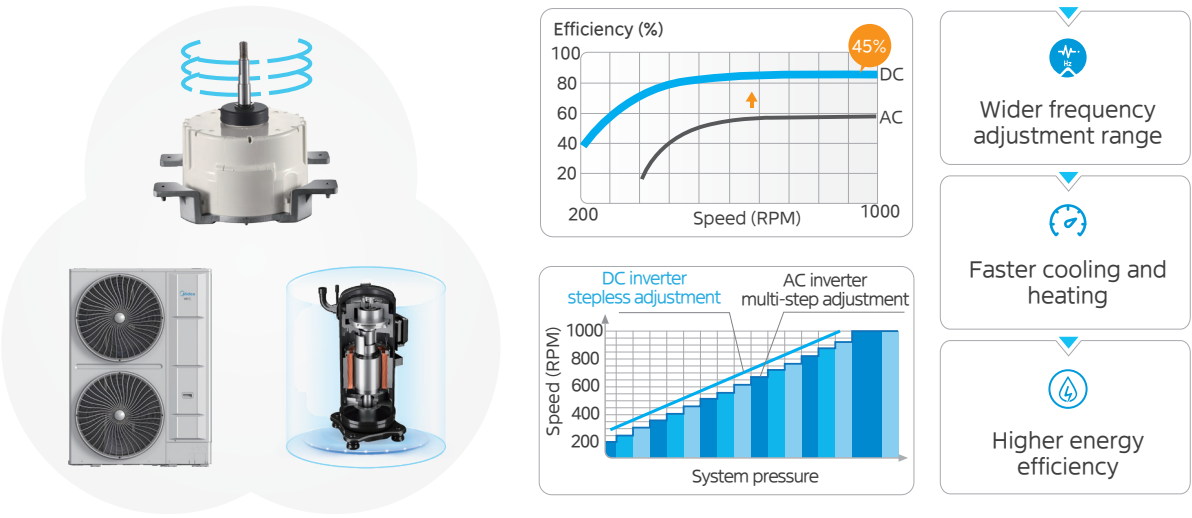


HIGH EFFICIENCY

Full DC Inverter Technology

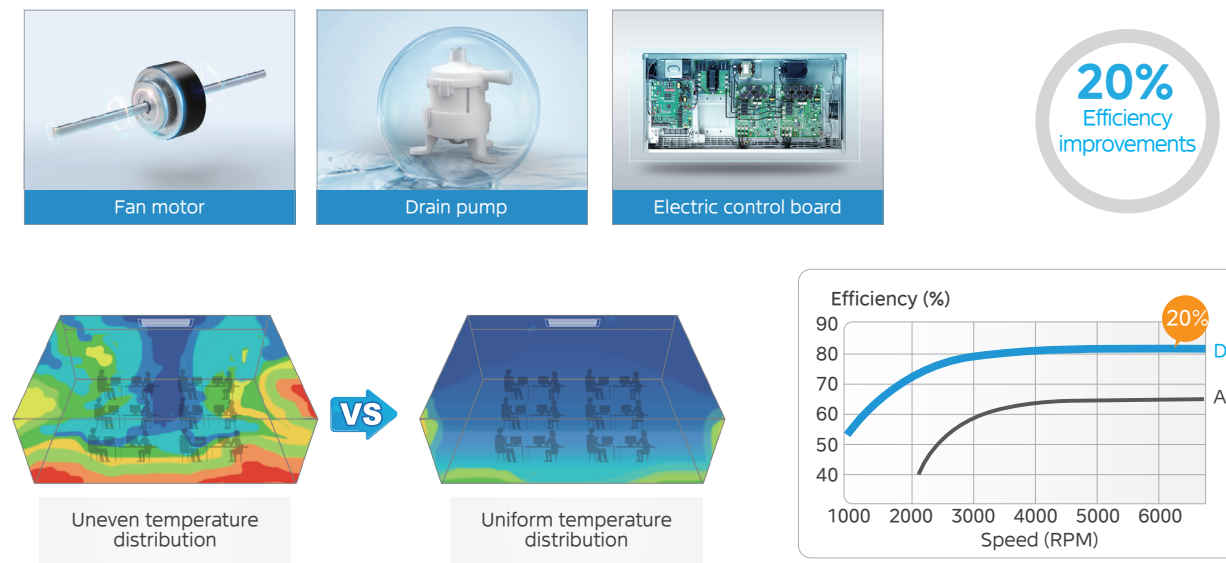
Full DC Inverter Outdoor Components

The V8S 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.



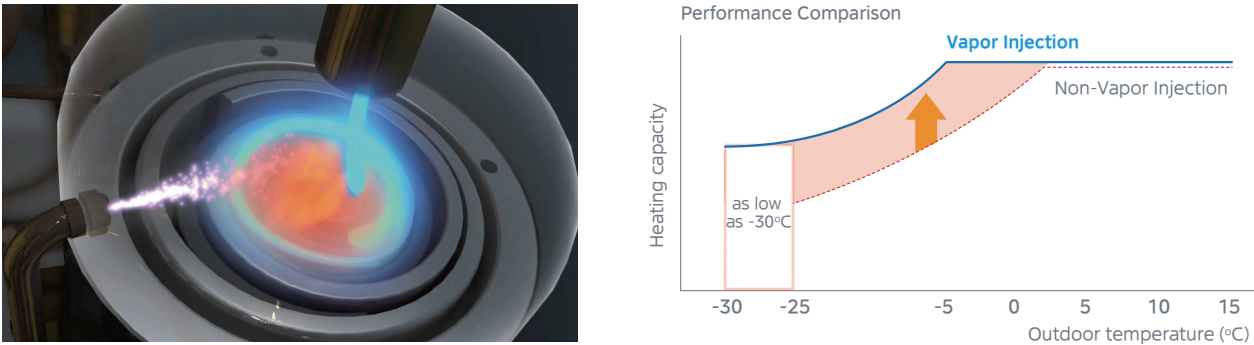
Full DC Inverter for Outdoor Components

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.



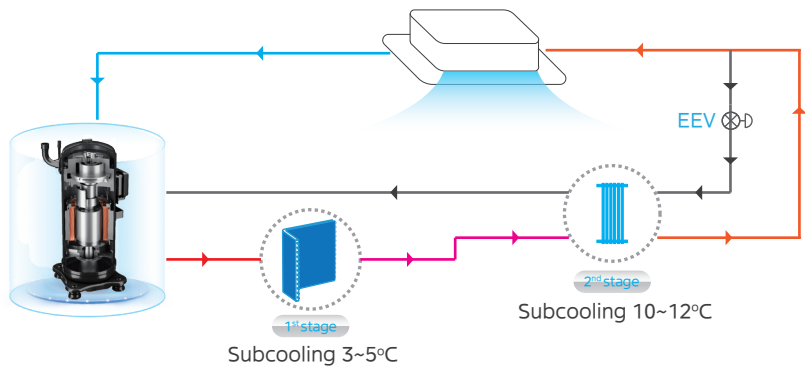
Enhanced Vapor Injection (EVI) Compressor

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



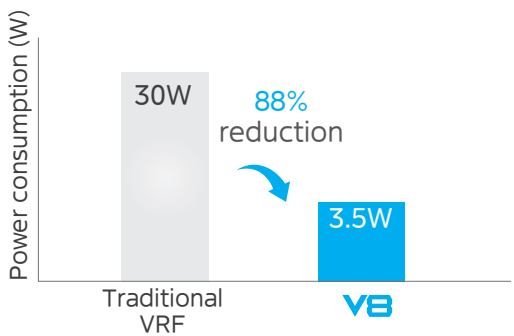
Advanced Subcooling Technology

The V8S 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.



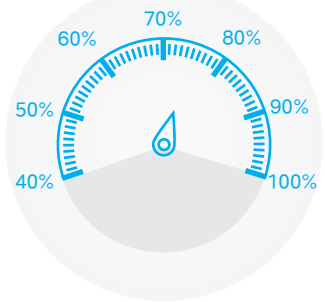
Low Standby Power Consumption

In contrast to the standard 30W standby power consumption of traditional VRF systems, the V8S 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.



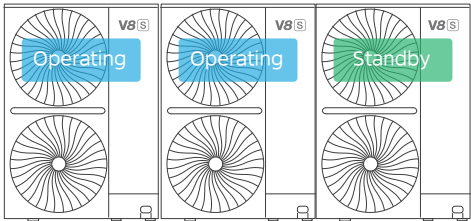
HIGH RELIABILITY

Quadruple Backup

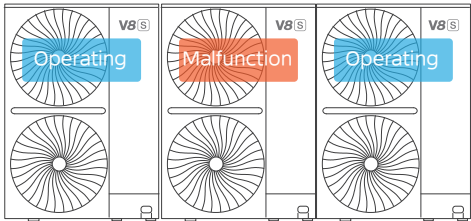
In a two-fan, two-compressor, multiple-unit configuration, each can serve as a backup for the other. In addition, the V8S series VRF generates a backup virtual sensor for each corresponding physical sensor by means of an algorithm so operation continues even if a fault occurs, ensuring uninterrupted 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.



Intelligent load bearing between units during normal operation

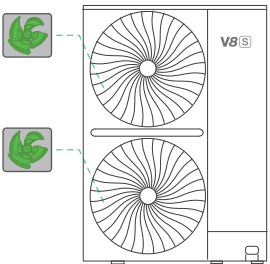


Continued operation in case of failure of one unit

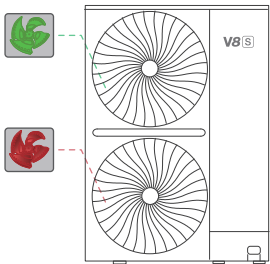
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2 Fan Backup

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



During normal operation, each fan runs on demand



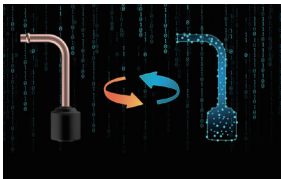
Operation fan
Failed fan

Continued operation in case of failure of one fan

3 Virtual Sensor Backup

New & Unique

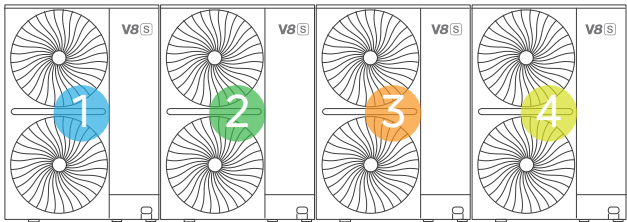
By employing an algorithm, every physical sensor can create a corresponding virtual sensor, which serves as a backup. This ensures system operation remains unaffected in the event of a sensor failure.



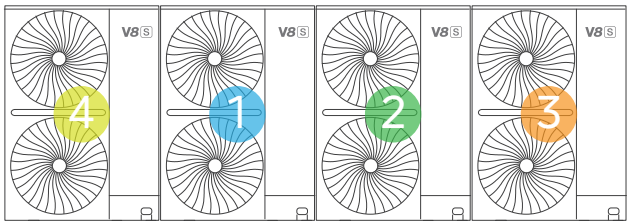
Automatic virtual sensor backup

Duty Cycling

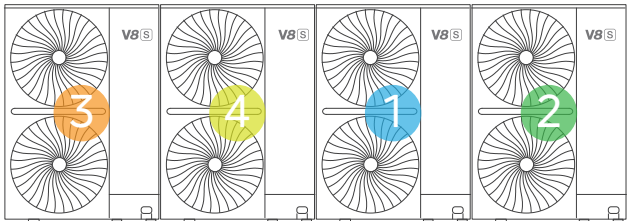
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



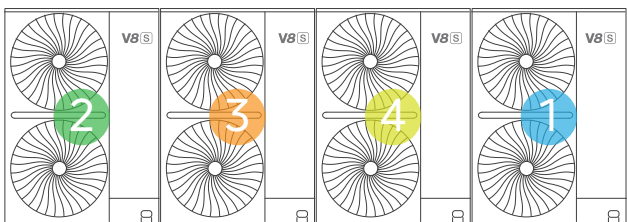
1st cycle



2nd cycle



3rd cycle



4th cycle

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.

SuperSense

V8S Series VRF utilizes up to 18 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.

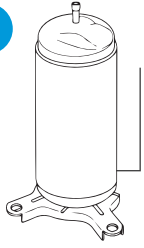


HIGH RELIABILITY

Precise Oil Control

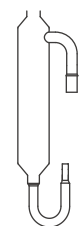
Three stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

1



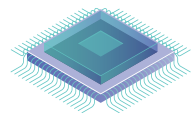
Compressor internal oil separation.

2



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

3



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

Anti-corrosion Protection*

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

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



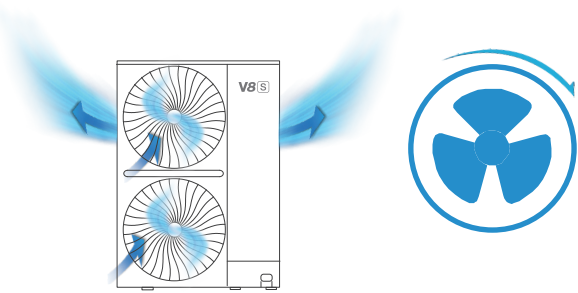
UL Anti-Corrosion Certificate*

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



Auto Dust-Removal Function

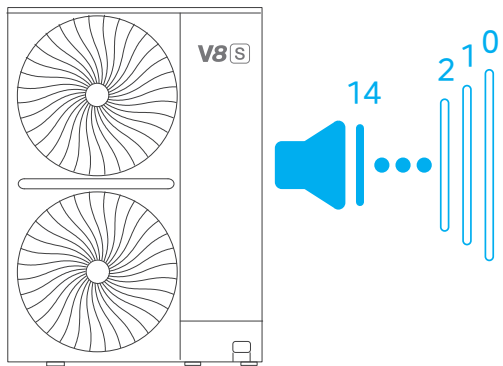
Self-cleaning feature automatically removes dust from the outdoor unit, ensuring stable operation in dusty environments.



ENHANCED COMFORT

Advanced Silent Technology

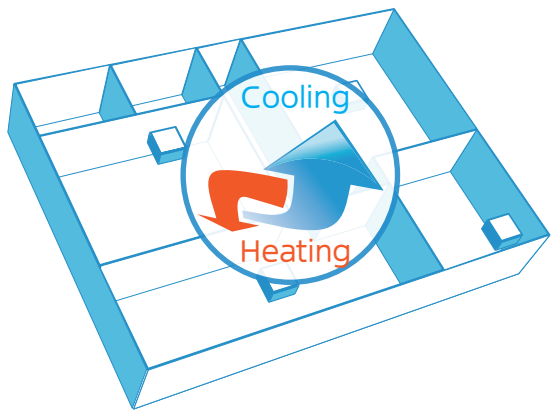
A 15-level silent mode gives your customers maximum customization options.



15 silent options

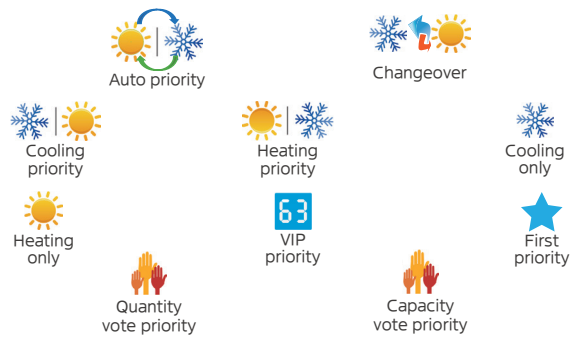
Auto Cooling/Heating Changeover

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



10 Priority Modes

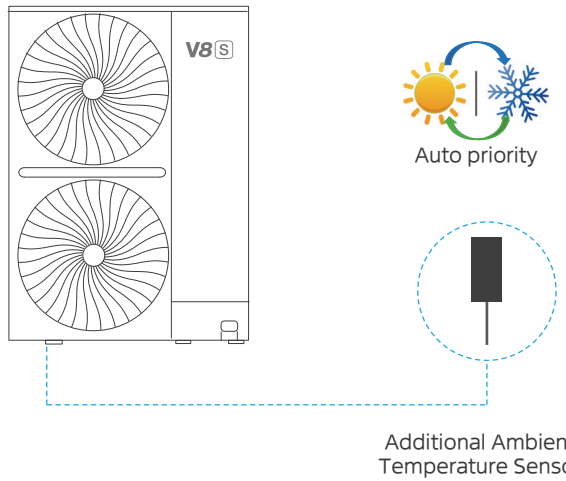
10 priority mode options provide more freedom and convenience to match the customer needs.



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.



WIDE APPLICATION RANGE

Wide Capacity Range

The V8S Series VRF are available in individual series and combinable series. The individual series has capacities from 8HP to 24HP and the combinable series from 26HP to 96HP, perfectly suited for small to large buildings.

Single unit
8-14HP



Single unit
16-24HP



Single unit
26-48HP



Combined unit
50-72HP



Combined unit
74-96HP



Wide Range of Indoor Units

The V8S 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 V8S Series VRF can operate at temperatures as low as -30°C for heating and up to 55°C for cooling.

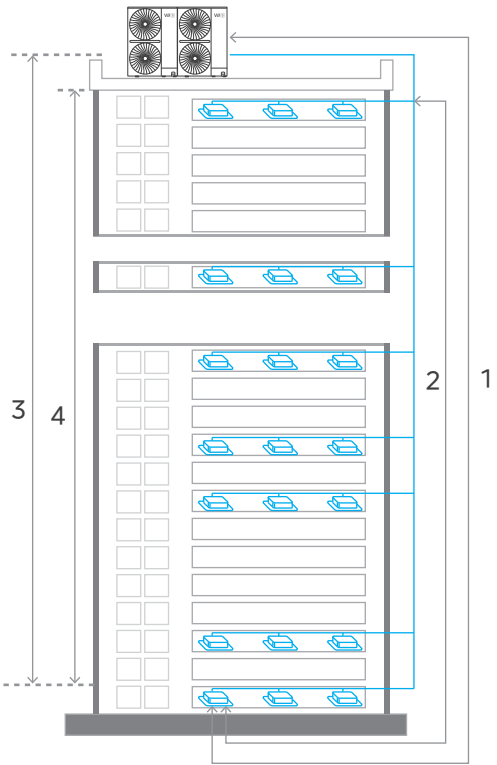


Long Piping Capability

The V8S system can support a total piping length of up to 560m, an installation height difference of up to 50m between indoor and outdoor units, and up to 30m between indoor units, making the V8S Series VRF adaptable to a wide range of building designs.

- Total piping length: **560m**
1 Longest piping length - actual (equivalent): **150(175)m**
2 Longest piping length after first branch: **40/90*m**
3 Level difference between IDUs and ODU - ODU above (below): **50(40)m**
4 Level difference between IDUs: **30m**

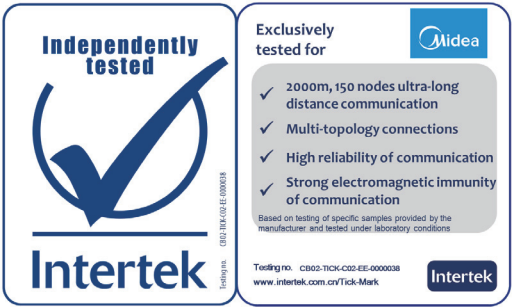
*The longest length after first branch is 40m as a standard but can be extended to up to 90m under certain conditions. Please contact your local dealer for further information.



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.



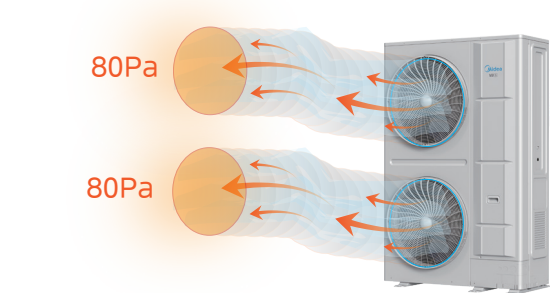
Space Saving

The compact, slim designed outdoor unit can easily be installed on a balcony, realizing complete system installation within each floor. Which release more useful utilization of the space on the building rooftop.



External Static Pressure up to 80Pa*

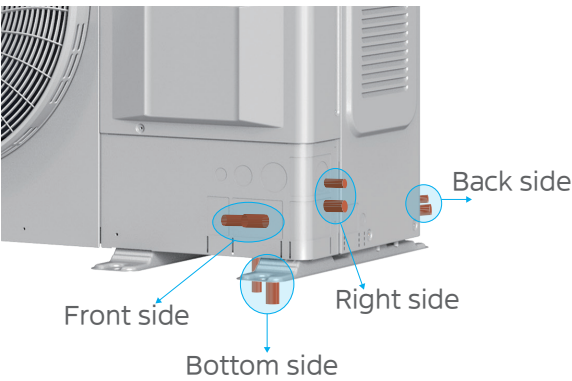
The static pressure of the outdoor unit can be up to 80Pa which facilitates installation of the unit on each floor of high-rise buildings or on balconies.



*External static pressure above 35Pa is available as a customization option.

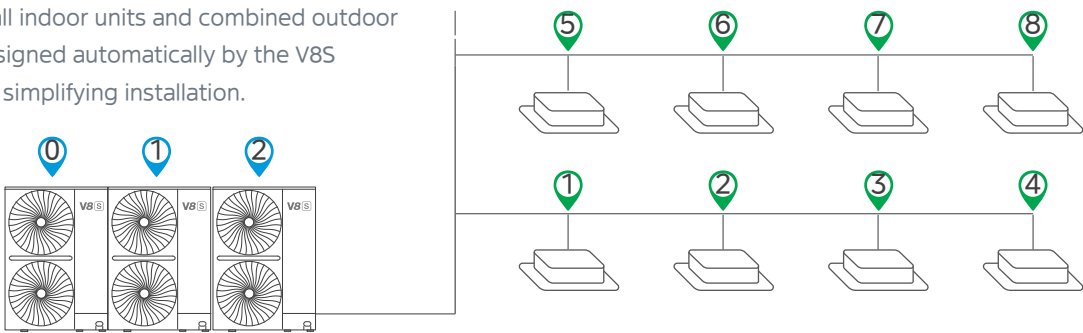
Four-way Piping Connection

A four-direction space is available for connecting pipes and wiring in various installation sites.



Auto Addressing

Addresses for all indoor units and combined outdoor units can be assigned automatically by the V8S system, further simplifying installation.



Automatic Refrigerant Charging*

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

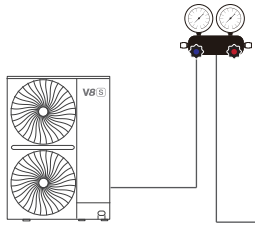
Manual refrigerant charging

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

*This function is available as a customization option.

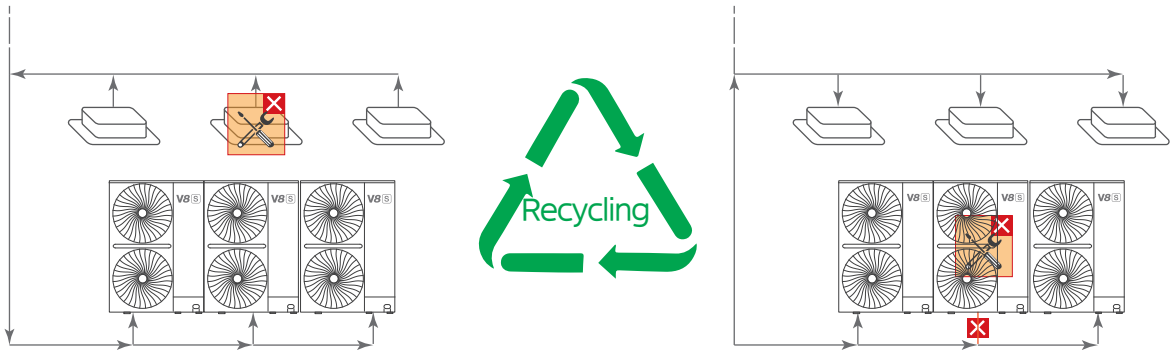
Automatic refrigerant charging

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



Automatic Refrigerant Recycling

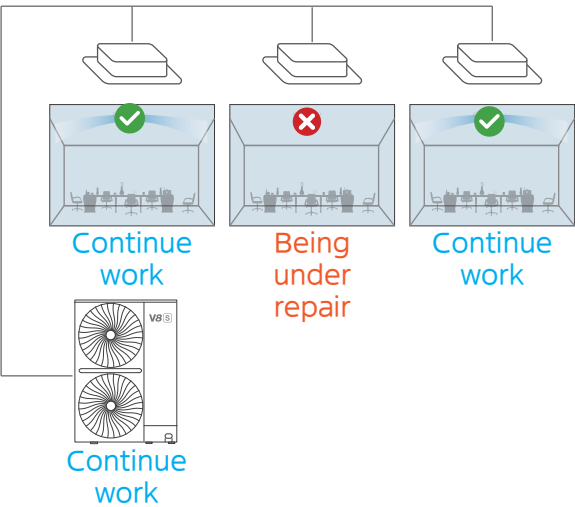
When an indoor unit requires maintenance, refrigerant can be transferred to the outdoor units for temporary storage. This feature also works in reverse when outdoor units need maintenance as refrigerant can be directed to the indoor units or other outdoors for temporary holding. This simplifies and expedites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



EASY INSTALLATION AND SERVICE

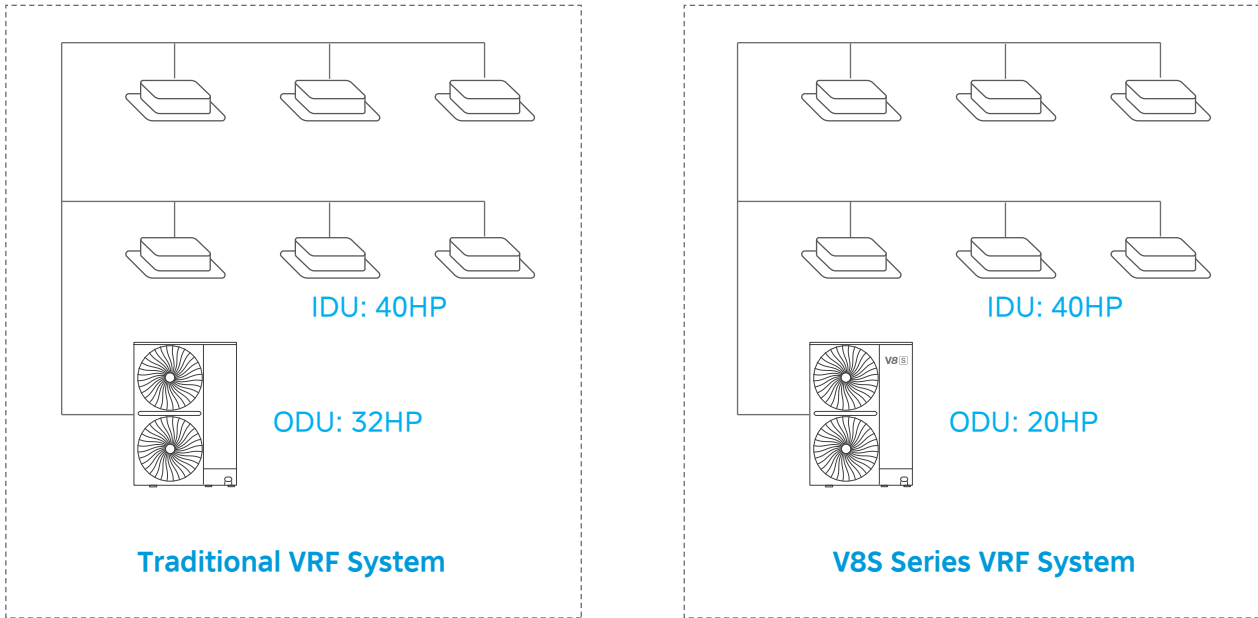
Maintenance Mode

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 V8S 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

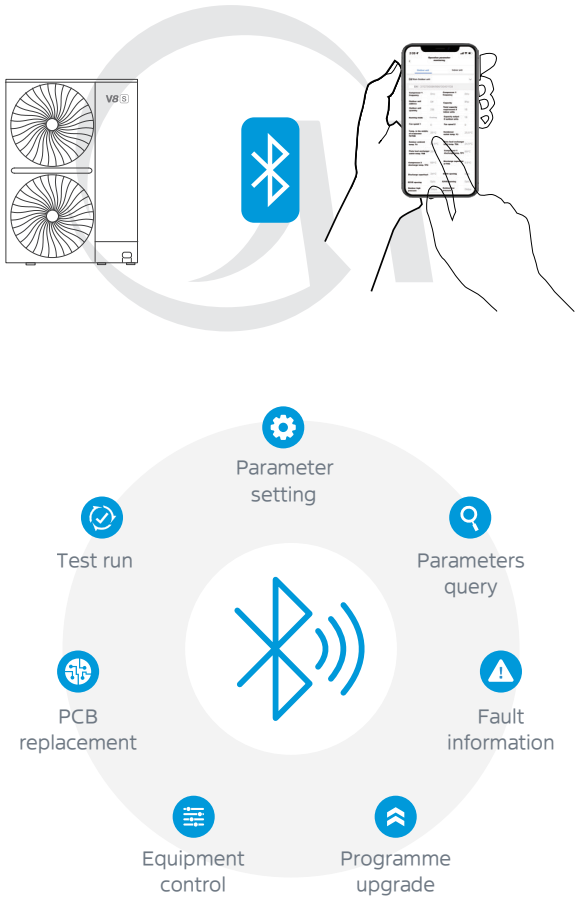
With the newly developed smart tool (Bluetooth module and special Bluetooth after-sales kit), system settings, operating parameter queries, trial runs and programme upgrades are all possible without opening the cabinet.

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

V8S (380-415/3/50(60))

HP			8	10	12	14
Model name			MV8S-252WV2GN1(SA)	MV8S-280WV2GN1(SA)	MV8S-335WV2GN1(SA)	MV8S-400WV2GN1(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	25.2	27.9	33.6	40
		Btu/h	86000	95000	115000	136000
	Power Input	kW	5791	6485	9237	12143
	EER	Btu/(W.h)	14.85	14.65	12.45	11.20
Cooling(T3) ¹	Capacity	kW	22.5	24.6	27.6	30
		kBtu/h	77000	84000	94000	102000
	Power Input	kW	7264	8077	9171	10408
	EER	Btu/(W.h)	10.60	10.40	10.25	9.80
Heating ²	Capacity	kW	25.2	27.9	33.6	40
		Btu/h	86.0	95.0	115.0	136.0
	Power Input	kW	5.7	6.8	7.9	10.5
	COP	kW/kW	4.46	4.13	4.28	3.81
Connected indoor unit	Total capacity		50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity
	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		2	2	2	2
	Static pressure	Pa	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)
		Airflow rate	m³/h	11800	12500	12500
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	6.1	6.1	6.4	7.4
Pipe connections ³	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Sound pressure level ⁴		dB(A)	56	57	58	59
Net dimensions (W×H×D)		mm	1130×1760×580	1130×1760×580	1130×1760×580	1130×1760×580
Packed dimensions (W×H×D)		mm	1210×1916×597	1210×1916×597	1210×1916×597	1210×1916×597
Net weight		kg	177	177	180	182
Gross weight		kg	197.5	197.5	200.5	202.5
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	24
Model name			MV8S-450 WV2GN1(SA)	MV8S-500 WV2GN1(SA)	MV8S-560 WV2GN1(SA)	MV8S-615 WV2GN1(SA)	MV8S-670 WV2GN1(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)	380-415/3/50(60)
Cooling(T1) ¹	Capacity	kW	45	50	55.5	61.5	67
		kBtu/h	154000	170000	190000	210000	228000
	Power Input	kW	12887	15111	15900	18667	20917
	EER		11.95	11.25	11.95	11.25	10.90
Cooling(T3) ¹	Capacity	kW	37.2	40	44.5	45.5	47.5
		kBtu/h	127000	136000	152000	156000	162000
	Power Input	kW	12390	13737	14829	15838	16701
	EER		10.25	9.90	10.25	9.85	9.70
Heating ²	Capacity	kW	45	50	55.5	61.5	67
		kBtu/h	154.0	170.0	190.0	210.0	228.0
	Power Input	kW	11.9	13.5	14.2	16.9	17.5
	COP		3.78	3.70	3.91	3.64	3.83
Connected indoor unit	Total capacity		50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity
	Maximum quantity		26	29	33	36	39
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	1	1	1
	Type		DC	DC	DC	DC	DC
	Quantity		2	2	2	2	2
Fan motors	Static pressure	Pa	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)
	Airflow rate	m³/h	18500	20000	18500	19000	19000
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Factory charge	kg	8	8	8.5	8.5	9.7
Pipe connections ³	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Sound pressure level ⁴		dB(A)	60	61	61	62	64
Net dimensions (W×H×D)		mm	1250×1760×580	1250×1760×580	1250×1760×580	1250×1760×580	1250×1760×580
Packed dimensions (W×H×D)		mm	1330×1916×597	1330×1916×597	1330×1916×597	1330×1916×597	1330×1916×597
Net weight		kg	208	208	228	228	233
Gross weight		kg	230	230	250	250	255
Ambient temp. operation range	Cooling	°C (DB)	-15 to 55	-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	-30 to 30

Notes:
1. Cooling (T1) conditions: Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 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 5m with zero level difference.
2. Heating conditions: Indoor air temperature 20°C DB; outdoor air 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 lengths between the farthest IDU and the first outdoor branch joint of less than 90m. For systems with lengths of 90m or longer, please refer to the V8S 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.
5. The above capacity table was measured according to ISO 16358-1 SASO 2874

HP			26	28	30	32
Model name(Combination unit)			MV8S-735WV2GN1(SA)	MV8S-800WV2GN1(SA)	MV8S-850WV2GN1(SA)	MV8S-400WV2GN1(SA)
Combination type			12HP+14HP	14HP+14HP	14HP+16HP	14HP+18HP
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	73.6	80.0	85.0	90.0
		Btu/h	251000	272000	290000	306000
	Power Input	kW	21380	24286	25030	27254
		Btu/(W.h)	11.74	11.20	11.59	11.23
Cooling(T3)1	Capacity	kW	57.6	60.0	67.2	70.0
		Btu/h	196000	204000	229000	238000
	Power Input	kW	19579	20816	22798	24145
		Btu/(W.h)	10.01	9.80	10.04	9.86
Heating2	Capacity	kW	73.6	80.0	85.0	90.0
		kBtu/h	251.0	272.0	290.0	306.0
	Power Input	kW	18.4	21.0	22.4	24.0
		COP	kW/kW	4.00	3.81	3.79
Connected indoor unit	Total capacity		50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity
	Maximum quantity		43	46	50	53
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		4	4	4	4
Static pressure	Pa	0-35 (default)		0-35 (default)	0-35 (default)	0-35 (default)
		35-80 (customized)		35-80 (customized)	35-80 (customized)	35-80 (customized)
		Airflow rate		m³/h	25000	25000
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge		kg	6.4+7.4	7.4×2	7.4+8
Pipe connections³	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8	Φ31.8
Sound pressure level⁴			dB(A)	62	63	63
Net dimensions (W×H×D)			mm	(1130×1760×580)×2	(1130×1760×580)×2	(1130×1760×580)+ (1250×1760×580)
Packed dimensions (W×H×D)			mm	(1210×1916×597)×2	(1210×1916×597)×2	(1210×1916×597)+ (1330×1916×597)
Net weight			kg	180+182	182×2	182+208
Gross weight			kg	200.5+202.5	202.5×2	202.5+230
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			34	36	38	40
Model name(Combination unit)			MV8S-950WV2GN1(SA)	MV8S-1000WV2GN1(SA)	MV8S-1070WV2GN1(SA)	MV8S-1115WV2GN1(SA)
Combination type			16HP+18HP	18HP+18HP	14HP+24HP	18HP+22HP
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	95.0	100.0	107.0	111.5
		Btu/h	324000	340000	364000	380000
	Power Input	kW	27998	30222	33060	33778
		Btu/(W.h)	11.57	11.25	11.01	11.25
Cooling(T3) ¹	Capacity	kW	77.2	80.0	77.5	85.5
		Btu/h	263000	272000	264000	292000
	Power Input	kW	26127	27474	27109	29575
		Btu/(W.h)	10.07	9.90	9.74	9.87
Heating ²	Capacity	kW	95.0	100.0	107.0	111.5
		kBtu/h	324.0	340.0	364.0	380.0
	Power Input	kW	25.4	27.0	28.0	30.4
		COP	kW/kW	3.74	3.70	3.82
Connected indoor unit	Total capacity		50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity
	Maximum quantity		56	59	63	64
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		4	4	4	4
	Static pressure		Pa 0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)
	Airflow rate		m³/h 38500	40000	31500	39000
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge		kg 8×2	8×2	7.4+9.7	8+8.5
Pipe connections ³	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ38.1	Φ38.1	Φ38.1
Sound pressure level ⁴		dB(A)	64	64	65	65
Net dimensions (W×H×D)		mm	(1250×1760×580)×2	(1250×1760×580)×2	(1130×1760×580)+ (1250×1760×580)	(1250×1760×580)×2
Packed dimensions (W×H×D)		mm	(1330×1916×597)×2	(1330×1916×597)×2	(1210×1916×597)+ (1330×1916×597)	(1330×1916×597)×2
Net weight		kg	208×2	208×2	182+233	208+228
Gross weight		kg	230×2	230×2	202.5+255	230+250
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

Specifications

HP			42	44	46	48	
Model name(Combination unit)			MV8S-1170WV2GN1(SA)	MV8S-1230WV2GN1(SA)	MV8S-1285WV2GN1(SA)	MV8S-1340WV2GN1(SA)	
Combination type			18HP+24HP	22HP+22HP	22HP+24HP	24HP+24HP	
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	117.0	123.0	128.5	134.0	
		Btu/h	398000	420000	438000	456000	
	Power Input	kW	36028	37334	39584	41834	
		EER	Btu/(W.h)	11.05	11.25	11.07	10.90
Cooling(T3) ¹	Capacity	kW	87.5	91.0	93.0	95.0	
		Btu/h	298000	312000	318000	324000	
	Power Input	kW	30438	31676	32539	33402	
		EER	Btu/(W.h)	9.79	9.85	9.77	9.70
Heating ²	Capacity	kW	117.0	123.0	128.5	134.0	
		kBtu/h	398.0	420.0	438.0	456.0	
	Power Input	kW	31.0	33.8	34.4	35.0	
		COP	kW/kW	3.77	3.64	3.74	3.83
Connected indoor unit	Total capacity		50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	
	Maximum quantity		64	64	64	64	
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter	
	Quantity		2	2	2	2	
Fan motors	Type		DC	DC	DC	DC	
	Quantity		4	4	4	4	
	Static pressure	Pa	0-35 (default)	0-35 (default)	0-35 (default)	0-35 (default)	
			35-80 (customized)	35-80 (customized)	35-80 (customized)	35-80 (customized)	
Airflow rate	39000		38000				
	38000		38000				
	38000		38000				
Refrigerant	Type		R410A	R410A	R410A	R410A	
	Factory charge		kg	8+9.7	8.5+9.2	8.5+9.7	9.7+9.2
Pipe connections ³	Liquid pipe		mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe		mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Sound pressure level ⁴			dB(A)	66	65	66	67
Net dimensions (W×H×D)			mm	(1250×1760×580)×2	(1250×1760×580)×2	(1250×1760×580)×2	(1250×1760×580)×2
Packed dimensions (W×H×D)			mm	(1330×1916×597)×2	(1330×1916×597)×2	(1330×1916×597)×2	(1330×1916×597)×2
Net weight		kg	208+233	228+232	228+233	233+2	
Gross weight		kg	230+250	250+2	250+255	255+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	

HP			50	52	54	56
Model name(Combination unit)			MV8S-1400WV2GN1(SA)	MV8S-1470WV2GN1(SA)	MV8S-1500WV2GN1(SA)	MV8S-1570WV2GN1(SA)
Combination type			14HP+18HP+18HP	14HP+14HP+24HP	18HP+18HP+18HP	14HP+18HP+24HP
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	140.0	147.0	150.0	157.0
		Btu/h	476000	500000	510000	534000
	Power Input	kW	42365	45203	45333	48171
		EER	Btu/(W.h)	11.24	11.06	11.25
Cooling(T3) ¹	Capacity	kW	110.0	107.5	120.0	117.5
		Btu/h	374000	366000	408000	400000
	Power Input	kW	37882	37517	41211	40846
		EER	Btu/(W.h)	9.87	9.76	9.90
Heating ²	Capacity	kW	140.0	147.0	150.0	157.0
		kBtu/h	476.0	500.0	510.0	534.0
	Power Input	kW	37.5	38.5	40.5	41.5
		COP	kW/kW	3.73	3.82	3.70
Connected indoor unit	Total capacity		50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity
	Maximum quantity		64	64	64	64
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		3	3	3	3
Fan motors	Type		DC	DC	DC	DC
	Quantity		6	6	6	6
	Static pressure	Pa	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)
		Airflow rate	m³/h	52500	44000	60000
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge		kg	7.4+8×2	7.4×2+9.7	8×3
Pipe connections ³	Liquid pipe		mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe		mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level ⁴		dB(A)	65	66	66	67
Net dimensions (W×H×D)		mm	(1130×1760×580)+ (1250×1760×580)×2	(1130×1760×580)×2+ (1250×1760×580)	(1250×1760×580)×3	(1130×1760×580)+ (1250×1760×580)×2
Packed dimensions (W×H×D)		mm	(1210×1916×597)+ (1330×1916×597)×2	(1210×1916×597)×2+ (1330×1916×597)	(1330×1916×597)×3	(1210×1916×597)+ (1330×1916×597)×2
Net weight		kg	182+208×2	182×2+233	208×3	182+208+233
Gross weight		kg	202.5+230×2	202.5×2+255	230×3	202.5+230+255
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. Cooling (T1) conditions: Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 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 5m with zero level difference.
2. Heating conditions: Indoor air temperature 20°C DB; outdoor air 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 lengths between the farthest IDU and the first outdoor branch joint of less than 90m. For systems with lengths of 90m or longer, please refer to the V8S 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.
5. The above capacity table was measured according to ISO 16358-1 SASO 2874

HP			58	60	62	64	
Model name(Combination unit)			MV8S-1615WV2GN1(SA)	MV8S-1670WV2GN1(SA)	MV8S-1730WV2GN1(SA)	MV8S-1785WV2GN1(SA)	
Combination type			18HP+18HP+22HP	18HP+18HP+24HP	18HP+22HP+22HP	18HP+22HP+24HP	
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	161.5	167.0	173.0	178.5	
		Btu/h	550000	568000	590000	608000	
	Power Input	kW	48889	51139	52445	54695	
		EER	Btu/(W.h)	11.25	11.11	11.25	11.12
Cooling(T3) ¹	Capacity	kW	125.5	127.5	131.0	133.0	
		Btu/h	428000	434000	448000	454000	
	Power Input	kW	43312	44175	45413	46276	
		EER	Btu/(W.h)	9.88	9.82	9.87	9.81
Heating ²	Capacity	kW	161.5	167.0	173.0	178.5	
		kBtu/h	550.0	568.0	590.0	608.0	
	Power Input	kW	43.9	44.5	47.3	47.9	
		COP	kW/kW	3.68	3.75	3.66	3.73
Connected indoor unit	Total capacity		50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	
	Maximum quantity		64	64	64	64	
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter	
	Quantity		3	3	3	3	
Fan motors	Type		DC	DC	DC	DC	
	Quantity		6	6	6	6	
	Static pressure	Pa	0-35 (default)	0-35 (default)	0-35 (default)	0-35 (default)	
			35-80 (customized)	35-80 (customized)	35-80 (customized)	35-80 (customized)	
Airflow rate	m³/h		59000				
	Type		R410A				
	Factory charge		kg				
Pipe connections ³	Liquid pipe		mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe		mm	Φ41.2	Φ41.2	Φ41.2	Φ41.2
Sound pressure level ⁴			dB(A)	66	67	66	67
Net dimensions (W×H×D)			mm	(1250×1760×580)×3	(1250×1760×580)×3	(1250×1760×580)×3	(1250×1760×580)×3
Packed dimensions (W×H×D)			mm	(1330×1916×597)×3	(1330×1916×597)×3	(1330×1916×597)×3	(1330×1916×597)×3
Net weight			kg	208×2+228	208×2+233	208×228×2	208×228+233
Gross weight			kg	230×2+255	230×2+255	230×250×2	230×250+255
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			66	68	70	72
Model name(Combination unit)			MV8S-1845WV2GN1(SA)	MV8S-1900WV2GN1(SA)	MV8S-1955WV2GN1(SA)	MV8S-2010WV2GN1(SA)
Combination type			22HP+22HP+22HP	22HP+22HP+24HP	22HP+24HP+24HP	24HP+24HP+24HP
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	184.5	190.0	195.5	201.0
		Btu/h	630000	648000	666000	684000
	Power Input	kW	56001	58251	60501	62751
Cooling(T3) ¹	EER	Btu/(W.h)	11.25	11.12	11.01	10.90
	Capacity	kW	136.5	138.5	140.5	142.5
		Btu/h	468000	474000	480000	486000
	Power Input	kW	47514	48377	49240	50103
	EER	Btu/(W.h)	9.85	9.80	9.75	9.70
Heating ²	Capacity	kW	184.5	190.0	195.5	201.0
		kBtu/h	630.0	648.0	666.0	684.0
	Power Input	kW	50.7	51.3	51.9	52.5
	COP	kW/kW	3.64	3.70	3.77	3.83
Connected indoor unit	Total capacity		50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity
	Maximum quantity		64	64	64	64
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		3	3	3	3
Fan motors	Type		DC	DC	DC	DC
	Quantity		6	6	6	6
	Static pressure	Pa	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)
		Airflow rate	m³/h	57000	57000	57000
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8.5×3	8.5×2+9.7	8.5+9.7×2	9.7×3
Pipe connections ³	Liquid pipe	mm	Φ19.1	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ41.2	Φ44.5	Φ44.5	Φ44.5
Sound pressure level ⁴		dB(A)	67	68	68	69
Net dimensions (W×H×D)		mm	(1250×1760×580)×3	(1250×1760×580)×3	(1250×1760×580)×3	(1250×1760×580)×3
Packed dimensions (W×H×D)		mm	(1330×1916×597)×3	(1330×1916×597)×3	(1330×1916×597)×3	(1330×1916×597)×3
Net weight		kg	228×3	228×2+233	228×233×2	233×3
Gross weight		kg	250×3	250×2+255	250×255×2	255×3
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

Specifications

HP			74		76		78		80	
Model name(Combination unit)			MV8S-2070WV2GN1(SA)		MV8S-2115WV2GN1(SA)		MV8S-2170WV2GN1(SA)		MV8S-2230WV2GN1(SA)	
Combination type			14HP+18HP+18HP+24HP		18HP+18HP+18HP+22HP		18HP+18HP+18HP+24HP		18HP+18HP+22HP+22HP	
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	207.0		211.5		217.0		223.0	
		Btu/h	704000		720000		738000		760000	
	Power Input	kW	63282		64000		66250		67556	
		EER	Btu/(W.h)	11.12		11.25		11.14		11.25
Cooling(T3) ¹	Capacity	kW	157.5		165.5		167.5		171.0	
		Btu/h	536000		564000		570000		584000	
	Power Input	kW	54583		57049		57912		59150	
		EER	Btu/(W.h)	9.82		9.89		9.84		9.87
Heating ²	Capacity	kW	207.0		211.5		217.0		223.0	
		kBtu/h	704.0		720.0		738.0		760.0	
	Power Input	kW	55.0		57.4		58.0		60.8	
		COP	kW/kW	3.76		3.68		3.74		3.67
Connected indoor unit	Total capacity		50-130% of ODU capacity		50-130% of ODU capacity		50-130% of ODU capacity		50-130% of ODU capacity	
	Maximum 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		8		8		8		8	
	Static pressure	Pa	0-35 (default)		0-35 (default)		0-35 (default)		0-35 (default)	
			35-80 (customized)		35-80 (customized)		35-80 (customized)		35-80 (customized)	
Refrigerant	Airflow rate	m³/h	71500		79000		79000		78000	
	Type		R410A		R410A		R410A		R410A	
	Factory charge	kg	7.4+8×2+9.7		8×3+8.5		8×3+9.7		8×2+8.5×2	
Pipe connections ³	Liquid pipe	mm	Φ22.2		Φ22.2		Φ22.2		Φ22.2	
	Gas pipe	mm	Φ44.5		Φ44.5		Φ44.5		Φ44.5	
Sound pressure level ⁴		dB(A)	68		67		68		68	
Net dimensions (W×H×D)		mm	(1130×1760×580)+ (1250×1760×580)×3		(1250×1760×580)×4		(1250×1760×580)×4		(1250×1760×580)×4	
Packed dimensions (W×H×D)		mm	(1210×1916×597)+ (1330×1916×597)×3		(1330×1916×597)×4		(1330×1916×597)×4		(1330×1916×597)×4	
Net weight		kg	182+208×2+233		208×3+228		208×3+233		208×2+228×2	
Gross weight		kg	202.5+230×2+255		230×3+250		230×3+255		230×2+250×2	
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	

HP			82		84		86		88	
Model name(Combination unit)			MV8S-2285WV2GN1(SA)		MV8S-2340WV2GN1(SA)		MV8S-2400WV2GN1(SA)		MV8S-2460WV2GN1(SA)	
Combination type			18HP+18HP+22HP+24HP		18HP+18HP+24HP+24HP		18HP+22HP+22HP+24HP		22HP+22HP+22HP+22HP	
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	228.5		234.0		240.0		246.0	
		Btu/h	778000		796000		818000		840000	
	Power Input	kW	69806		72056		73362		74668	
	EER	Btu/(W.h)	11.15		11.05		11.15		11.25	
Cooling(T3) ¹	Capacity	kW	173.0		175.0		178.5		182.0	
		Btu/h	590000		596000		610000		624000	
	Power Input	kW	60013		60876		62114		63352	
	EER	Btu/(W.h)	9.83		9.79		9.82		9.85	
Heating ²	Capacity	kW	228.5		234.0		240.0		246.0	
		kBtu/h	778.0		796.0		818.0		840.0	
	Power Input	kW	61.4		62.0		64.8		67.6	
	COP	kW/kW	3.72		3.77		3.70		3.64	
Connected indoor unit	Total capacity		50-130% of ODU capacity		50-130% of ODU capacity		50-130% of ODU capacity		50-130% of ODU capacity	
	Maximum 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		8		8		8		8	
	Static pressure	Pa	0-35 (default) 35-80 (customized)		0-35 (default) 35-80 (customized)		0-35 (default) 35-80 (customized)		0-35 (default) 35-80 (customized)	
			78000		78000		77000		76000	
Refrigerant	Airflow rate		m³/h		m³/h		m³/h		m³/h	
	Type		R410A		R410A		R410A		R410A	
Factory charge	kg		8×2+8.5+9.7		8×2+9.7×2		8+8.5×2+9.7		8.5×4	
	Liquid pipe		mm		mm		mm		mm	
Pipe connections ³	Gas pipe		mm		mm		mm		mm	
	Sound pressure level ⁴		dB(A)		dB(A)		dB(A)		dB(A)	
Net dimensions (W×H×D)			mm		mm		mm		mm	
Packed dimensions (W×H×D)			mm		mm		mm		mm	
Net weight			kg		kg		kg		kg	
Gross weight			kg		kg		kg		kg	
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. Cooling (T1) conditions: Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 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 5m with zero level difference.
2. Heating conditions: Indoor air temperature 20°C DB; outdoor air 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 lengths between the farthest IDU and the first outdoor branch joint of less than 90m. For systems with lengths of 90m or longer, please refer to the V8S 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.
5. The above capacity table was measured according to ISO 16358-1 SASO 2874

HP			90	92	94	96
Model name(Combination unit)			MV8S-2515WV2GN1(SA)	MV8S-2570WV2GN1(SA)	MV8S-2625WV2GN1(SA)	MV8S-2680WV2GN1(SA)
Combination type			22HP+22HP+22HP+24HP	22HP+22HP+24HP+24HP	22HP+24HP+24HP+24HP	24HP+24HP+24HP+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	251.5	257.0	262.5	268.0
		Btu/h	858000	876000	894000	912000
	Power Input	kW	76918	79168	81418	83668
	EER	Btu/(W.h)	11.15	11.07	10.98	10.90
Cooling(T3) ¹	Capacity	kW	184.0	186.0	188.0	190.0
		Btu/h	630000	636000	642000	648000
	Power Input	kW	64215	65078	65941	66804
	EER	Btu/(W.h)	9.81	9.77	9.74	9.70
Heating ²	Capacity	kW	251.5	257.0	262.5	268.0
		kBtu/h	858.0	876.0	894.0	912.0
	Power Input	kW	68.2	68.8	69.4	70.0
	COP	kW/kW	3.69	3.74	3.78	3.83
Connected indoor unit	Total capacity		50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity	50-130% of ODU capacity
	Maximum 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		8	8	8	8
	Static pressure	Pa	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)	0-35 (default) 35-80 (customized)
	Airflow rate	m³/h	76000	76000	76000	76000
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8.5×3+9.7	8.5×2+9.7×2	8.5+9.7×3	9.7×4
Pipe connections ³	Liquid pipe	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
	Gas pipe	mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8
Sound pressure level ⁴		dB(A)	69	69	70	70
Net dimensions (W×H×D)		mm	(1250×1760×580)×4	(1250×1760×580)×4	(1250×1760×580)×4	(1250×1760×580)×4
Packed dimensions (W×H×D)		mm	(1330×1916×597)×4	(1330×1916×597)×4	(1330×1916×597)×4	(1330×1916×597)×4
Net weight		kg	228×3+233	228×2+233×2	228+233×3	233×4
Gross weight		kg	250×3+255	250×2+255×2	250+255×3	255×4
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