

B-V8SEU202209

SMART IN ONE

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



V8S **VRF**
8-22HP (Single Unit)
24-88HP (Combined Unit)



DISCOVER
RELIABLE COMFORT



HYPERLINK

Midea original communication bus chip greatly simplifies installation and saves installation cost.



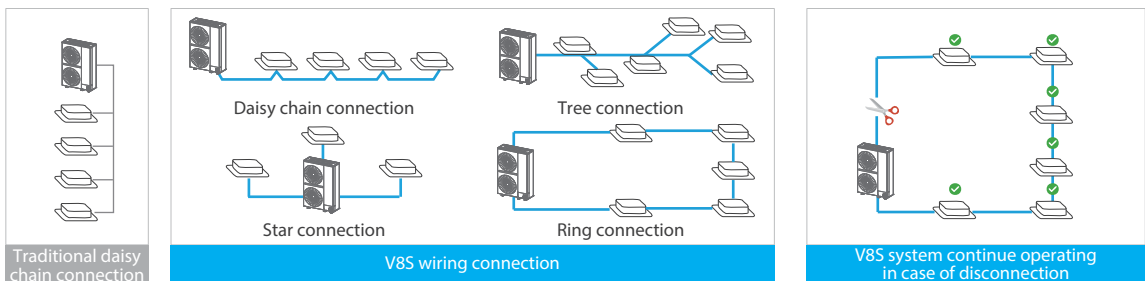
Benefits

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

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

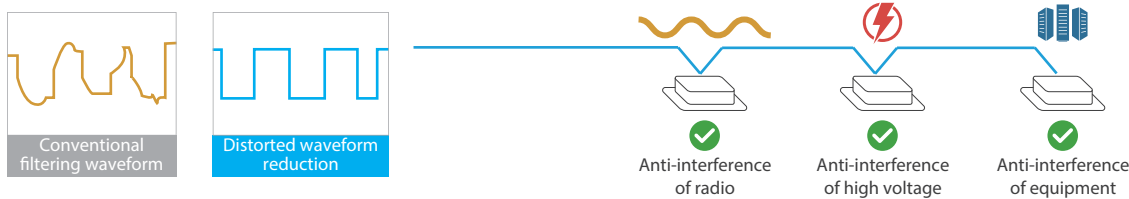
Support Any Topology Communication

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



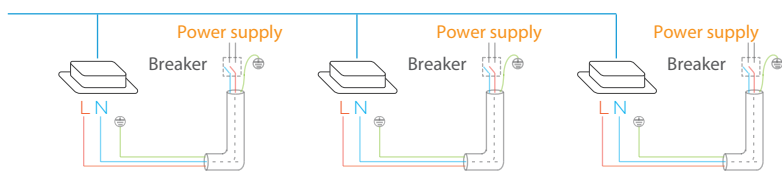
Super Anti-interference Capability

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



Flexible Power Supply for Indoor Units

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



FLEXIBLE INSTALLATION

V8S is highly space saving, slim and compact designed outdoor units, this ensures FLEXIBLE INSTALLATION.



Benefits

- Space saving
- Flexible installation
- Low installation cost

Maximum 4 outdoor units can be combined in one refrigerant system and the maximum capacity ups to 96HP. 80Pa static pressure can be customized for longer air duct connecting. V8S is an optimize choice for small to large buildings especially those installation space is limited.

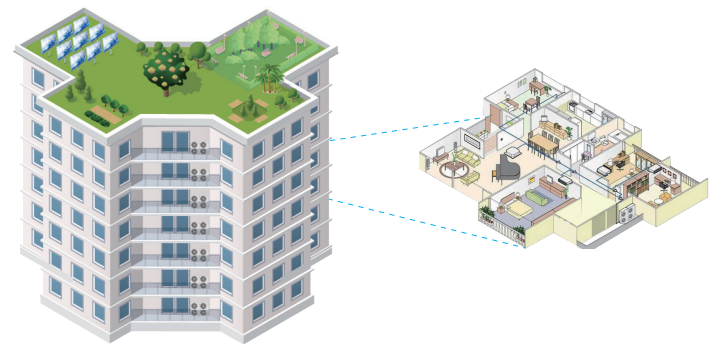
Easy Transportation

V8S can be transported by elevator which makes installation dramatically easy, and effectively reduces time and labor thanks to the small size.



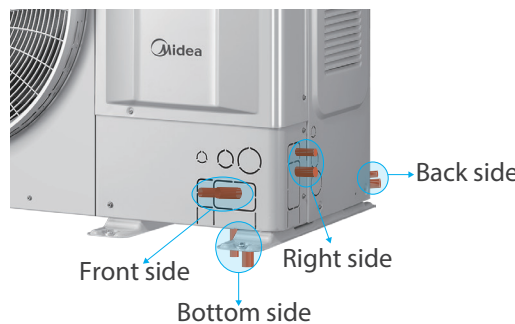
Space Saving

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



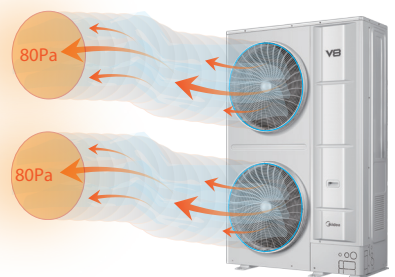
Four-way Piping Connection

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



High External Static Pressure

80Pa static pressure can be customized, which facilitates installation of the unit on balconies with ducting.



SUPERSENSE

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



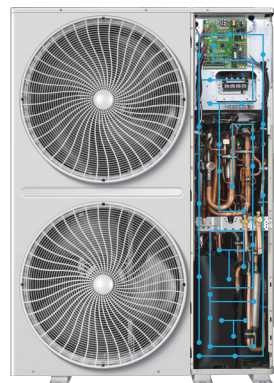
Benefits

- High reliability
- Stable operation
- Enhanced comfort

Up to 18 sensors are distributed throughout the refrigerant system, and the status of the refrigerant is known anywhere throughout the process, ensuring stable operation. At the same time, combined with the digital twin technology of the refrigerant system, a virtual sensor can be created in the event of a physical sensor failure, so that the system does not shut down in the event of a sensor failure, ensuring comfort.

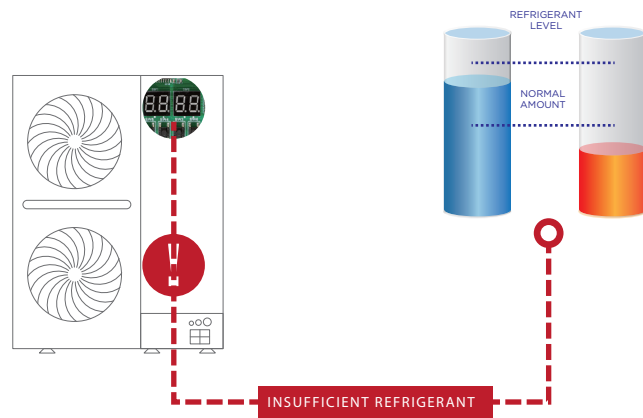
Complete Sensors

The V8S Series VRF has the industry's most comprehensive range of 18 condition sensors with built-in data models for compressors, heat exchangers, throttling components and more. By analyzing sensor data in real time, it can sense the status of the refrigerant anywhere in the system.



Refrigerant Amount Diagnosis*

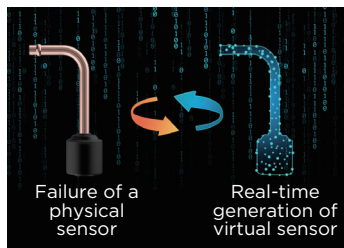
Thanks to the complete sensors, the refrigerant running state is clearly visible, so as to accurately diagnose the amount of refrigerant.



*Refrigerant Amount Diagnosis function will be available at the end of July.

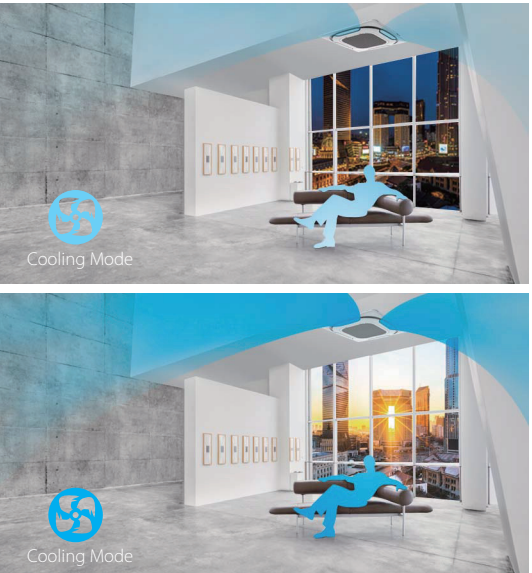
Virtual Sensor Backup

In the event of a sensor failure, other sensors can automatically simulate a virtual backup sensor, so that the VRF system can continue to operate without stopping.



META 2.0

META is the abbreviation of Midea Evaporating Temperature Alteration. Further upgraded META technology to maximize **ENERGY SAVING**.



Benefits

- Energy saving
- Enhanced comfort
- Fast cooling/heating

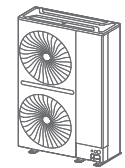
Built-in professional operation and maintenance algorithm, so that the annual operation energy efficiency of each set of systems increased by more than 28%.



Variable Refrigerant Flow

STEP 1: Architectural space feature recognition

The indoor unit automatically recognizes the size of the building space and the effectiveness of the insulation according to the rate of temperature drop.



Refrigerant flow coordination



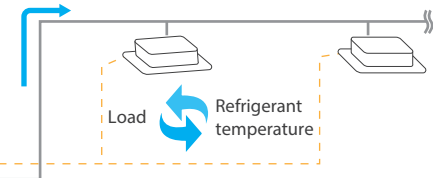
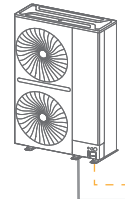
Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.



Variable Refrigerant Temperature

STEP 2: System refrigerant temperature determination

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



Automatic matching of the corresponding refrigerant temperature to the load.



Variable Indoor Airflow

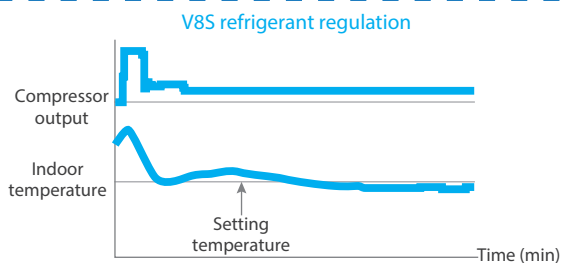
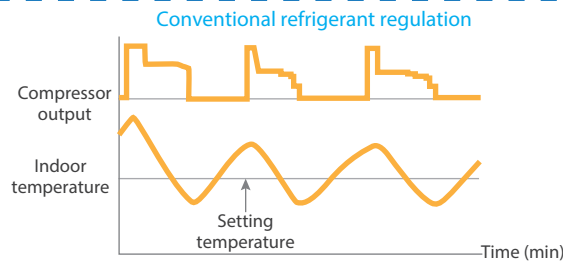
STEP 3: Adaptive indoor airflow and refrigerant flow

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

7 fan speeds

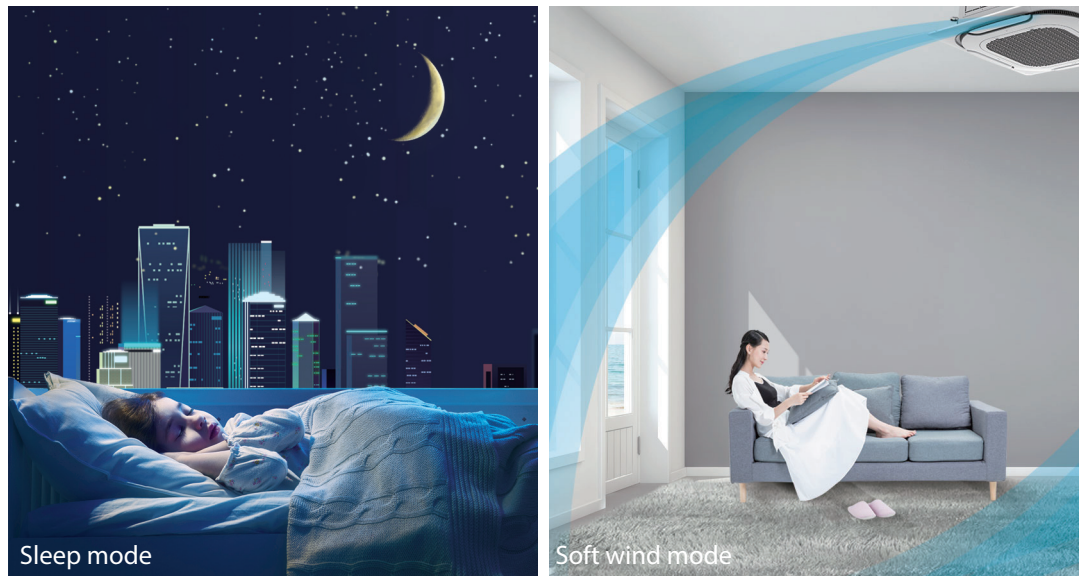


Automatic matching of the corresponding indoor airflow to the load and refrigerant temperature.



ZEN AIR 2.0

Further upgraded ZEN AIR technology to maximize COMFORT.



Benefits



Quiet



Enhanced comfort

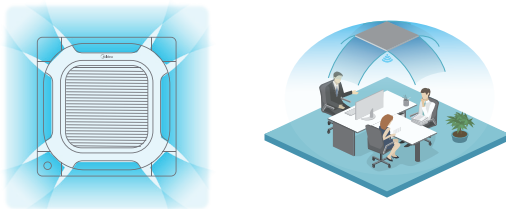


Healthy

0.5°C temperature adjustment, 7 fan speeds selection, sleep mode, silent mode, windless technology, high efficiency filter, a variety of sterilization device and other advanced technologies used in V8S Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

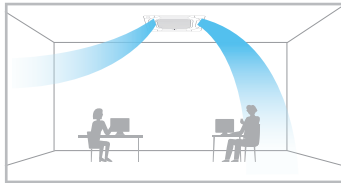
360° Airflow

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



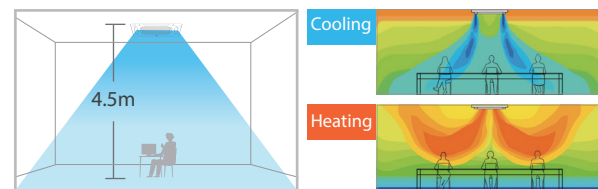
Individual Louver Control

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



Long Distance Air Delivery*

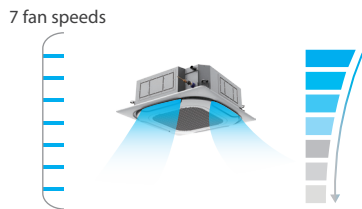
The Four-way Cassette has an additional 50Pa static pressure for long airflow delivery and is capable of being used in spaces up to 4.5m in floor height.



*This function is available as a customization option for V8 Four Way Cassette. *The indoor unit needs to be customized in order to use the Puro-air Kit.

7 Fan Speeds

7 indoor fan speed options to meet the needs of different indoor conditions.



Sleep Mode

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



Innovative Puro-air Kit

Protectors of health and safety



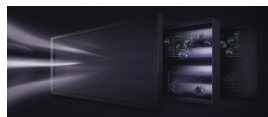
From Germany - OSRAM quality UV light source



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



Ozone -Free
UV leakage-Free



DOCTOR M 2.0

Further upgraded DOCTOR M technology to maximize EASY SERVICE.



Benefits



Easy maintenance



Fast maintenance



Low maintenance cost

As many as 17 sensors are distributed throughout the refrigerant system, the state of each part of the refrigerant pipeline can be known in the whole process, which can realize the real-time detection of the system state, predict system faults in advance and provide data analysis for system maintenance. Intelligent Bluetooth module and special Bluetooth after-sales kit can further simplify maintenance and improve maintenance efficiency.

Intelligent Maintenance Tool*

With intelligent Bluetooth module or special Bluetooth after-sales kit, the data of the outdoor unit can be directly read and written on your smart phone without the needs of connecting PC or opening cabinet.



*The Bluetooth module is available as customization option.

Real-time Monitoring of Operating Parameters

The V8S Series VRF synchronizes and stores all the unit parameters to the cloud through the data cloud gateway, including the running status, locking status, dirty blocking rate, all spot inspection parameters and so on. Users can query real-time and historical parameters on computers, tablets and mobile phones at any time.



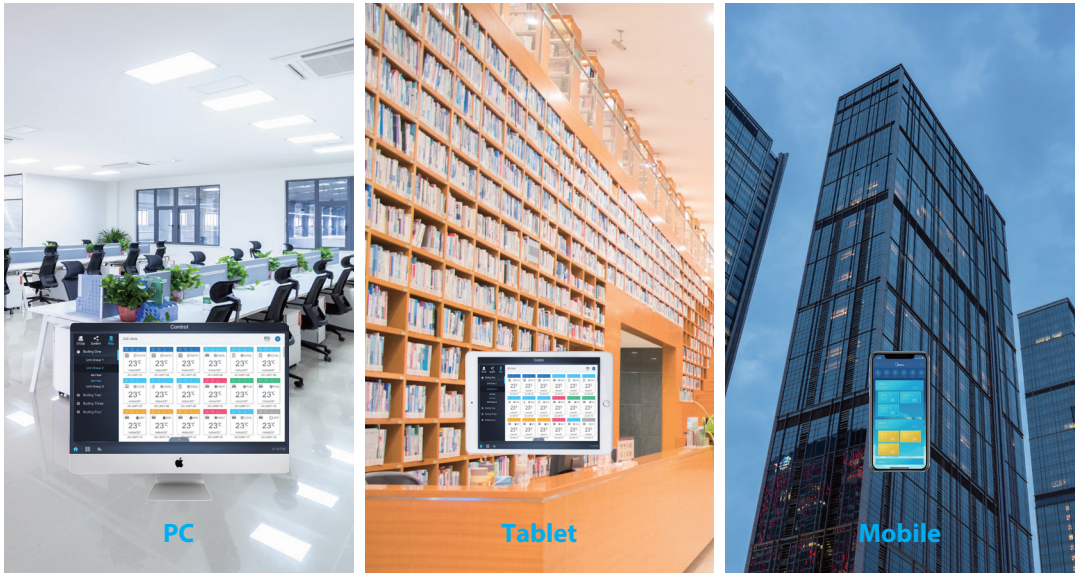
Cloud-based Big Data Analytics

Midea V8S VR transmits the system operation data to the cloud in real time through the data cloud gateway, and timely reminds the system of abnormal conditions through big data analysis, helping users to proactively avoid the risk of failure that has not yet occurred and minimize hidden problems.



FREE CONTROL

Intelligent control brings a new experience.



Benefits



Individual control

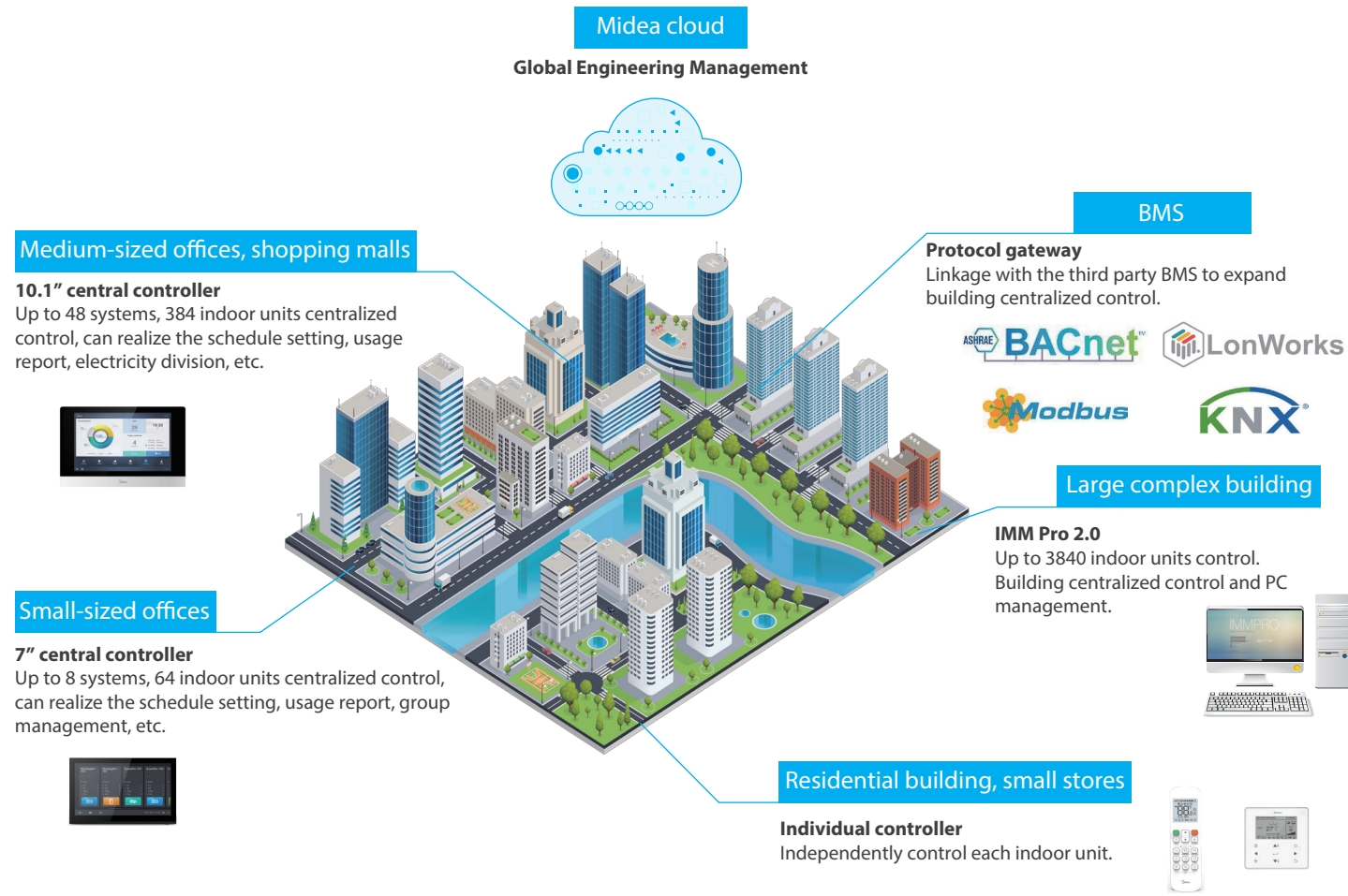


Central control



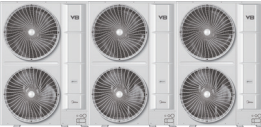
Cloud control

V8S Series VRF can provide different control solutions for different application scenarios. From small homes and convenience stores to large shopping malls and complex buildings, V8S Series VRF can provide the most appropriate control solutions to achieve centralized and customized management.



V8S UNIT LINEUP

Outdoor Unit

HP	8-14	16-22	
Single Unit			
HP	24-44	46-66	68-88
Combined Unit			

V8 Indoor Unit

Type	One-way Cassette	Two-way Cassette	Compact Four-way Cassette	Four-way Cassette	Arc Duct	Medium Static Pressure Duct
Indoor Unit	 1.8-7.1kW, 7 models	 2.2-7.1kW, 6 models	 1.5-6.3kW, 7 models	 2.8-16kW, 11 models	 1.5-11.2kW, 10 models	 1.5-16kW, 12 models
Type	High Static Pressure Duct	Wall Mounted	Ceiling & Floor	Floor Standing	Floor Standing	Fresh Air Processing Unit
Indoor Unit	 7.1-56kW, 12 models	 1.5-9kW, 9 models	 3.6-14kW, 8 models	 2.2-7.1kW, 6 models	 22.4/28kW, 2 models	 11.2-56kW, 8 models

Note: The different series of indoor units are available in stages.
Pictures are for reference only, please refer to the actual product.

2nd Generation DC/AC Indoor Unit

Type	One-way Cassette	Two-way Cassette	Compact Four-way Cassette	Four-way Cassette	Medium Static Pressure Duct
Indoor Unit	 1.8-7.1kW, 7 models	 2.2-7.1kW, 6 models	 2.2-4.5kW, 5 models (DC) 1.8-4.5kW, 5 models (AC)	 2.8-16kW, 11 models (DC) 2.8-14kW, 10 models (AC)	 2.2-16kW, 11 models (DC) 2.2-14kW, 10 models (AC)
Type	High Static Pressure Duct	Wall Mounted	Ceiling & Floor	Floor Standing	Fresh Air Processing Unit
Indoor Unit	 7.1-56kW, 12models	 2.2-9kW, 8 models	 3.6-16kW, 9 models (DC) 3.6-14kW, 8 models (AC)	 2.2-8kW, 7 models (DC)	 12.5-56kW, 7 models (DC)

Specification

Combinable Series

HP			8	10	12	14
Model name			MV8S-252WV2RN1	MV8S-280WV2RN1	MV8S-335WV2RN1	MV8S-400WV2RN1
Power supply		V/N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	25.2	28	33.5	40
		kBtu/h	86.0	95.5	114.3	136.5
Heating ² (Rated)	Capacity	kW	25.2	28	33.5	40
		kBtu/h	86.0	95.5	114.3	136.5
Heating ² (Max)	Capacity	kW	27	31.5	37.5	45
		kBtu/h	92.1	107.5	128.0	153.5
SEER			7.25	7.05	6.91	6.65
ηs,c		%	287.0	279.0	273.4	263.0
SCOP			4.15	4.11	4.11	4.15
ηs,h		%	163.0	161.4	161.4	163.0
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		13	16	19	22
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	1	1
	Oil type		FVC68D	FVC68D	FVC68D	FVC68D
	Start-up method		Soft start	Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller	Propeller
	Motor type		DC	DC	DC	DC
	Quantity		2	2	2	2
	Motor output	kW	0.2×2	0.2×2	0.2×2	0.2×2
	Static pressure	Pa	0-35 (standard)35-80 (customized)			
	Airflow rate	m³/h	11800	12500	12500	12500
Drive type		Direct	Direct	Direct	Direct	
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	6.1	6.1	6.4	7.4
Pipe connections ³	Liquid pipe	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7
	Gas pipe	mm	Ø25.4	Ø25.4	Ø25.4	Ø25.4
Sound pressure level ⁴		dB(A)	56	57	58	59
Sound power level ⁴		dB(A)	76	79	81	82
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	191	191	194	196
Ambient temp.	Cooling	°C	-15 to 55	-15 to 55	-15 to 55	-15 to 55
operation range	Heating	°C	-30 to 30	-30 to 30	-30 to 30	-30 to 30

- Notes:
- Indoor air temperature 27°C DB, 19°C WB;outdoor air temperature 35/43°C(T1/T3) DB; equivalent refrigerant piping length 5m with zero level difference; connect to Cassette type indoor unit.
 - Indoor air temperature 20°C DB; outdoorair temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference; connect to Cassette type indoor unit.
 - Diameters given are those of the unit's stop valve.
 - Sound pressure level is measured at aposition 1m in front of the unit and 1.3m above the oor in a semi-anechoicchamber.

Specification

Combinable Series

HP			16		18		20		22		
Model name			MV8S-450WV2RN1		MV8S-500WV2RN1		MV8S-560WV2RN1		MV8S-615WV2RN1		
Power supply			V/N/Hz	380-415/3/50	380-415/3/50		380-415/3/50		380-415/3/50		
Cooling ¹	Capacity	kW	45		50		56		61.5		
		kBtu/h	153.5		170.6		191.1		209.8		
Heating ² (Rated)	Capacity	kW	45		50		56		61.5		
		kBtu/h	153.5		170.6		191.1		209.8		
Heating ² (Max)	Capacity	kW	50		56.5		63		69		
		kBtu/h	170.6		192.8		215.0		235.4		
SEER			6.77		6.47		6.30		6.15		
ηs,c			%	267.8	255.8		249.0		243.0		
SCOP			4.23		4.17		4.07		4.00		
ηs,h			%	166.2	163.8		159.8		157.0		
Connected indoor unit	Total capacity		50-130%		50-130%		50-130%		50-130%		
	Maximum quantity		26		29		32		35		
Compressor	Type		DC inverter		DC inverter		DC inverter		DC inverter		
	Quantity		1		1		1		1		
	Oil type		FVC68D		FVC68D		FVC68D		FVC68D		
	Start-up method		Soft start		Soft start		Soft start		Soft start		
Fan	Type		Propeller		Propeller		Propeller		Propeller		
	Motor type		DC		DC		DC		DC		
	Quantity		2		2		2		2		
	Motor output	kW	0.56×2		0.56×2		0.56×2		0.56×2		
	Static pressure	Pa	0-35 (standard)35-80 (customized)								
	Airflow rate	m³/h	18500		20000		18500		19000		
	Drive type		Direct		Direct		Direct		Direct		
Refrigerant	Type		R410A		R410A		R410A		R410A		
	Factory charge	kg	8		8		8.5		8.5		
Pipe connections ³	Liquid pipe	mm	Ø15.9		Ø15.9		Ø15.9		Ø15.9		
	Gas pipe	mm	Ø28.6		Ø28.6		Ø28.6		Ø28.6		
Sound pressure level ⁴		dB(A)	60		61		61		62		
Sound power level ⁴		dB(A)	86		88		89		89		
Net dimensions (W×H×D)		mm	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		
Net weight		kg	208		208		228		228		
Gross weight		kg	223		223		243		243		
Ambient temp.	Cooling	°C	-15 to 55		-15 to 55		-15 to 55		-15 to 55		
operation range	Heating	°C	-30 to 30		-30 to 30		-30 to 30		-30 to 30		

- Notes:
- Indoor air temperature 27°C DB, 19°C WB;outdoor air temperature 35/43°C(T1/T3) DB; equivalent refrigerant piping length 5m with zero level difference; connect to Cassette type indoor unit.
 - Indoor air temperature 20°C DB; outdoorair temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference; connect to Cassette type indoor unit.
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