

B-V8SEU202209



SMART IN ONE

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



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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.

DISCOVER
RELIABLE COMFORT



HYPERLINK

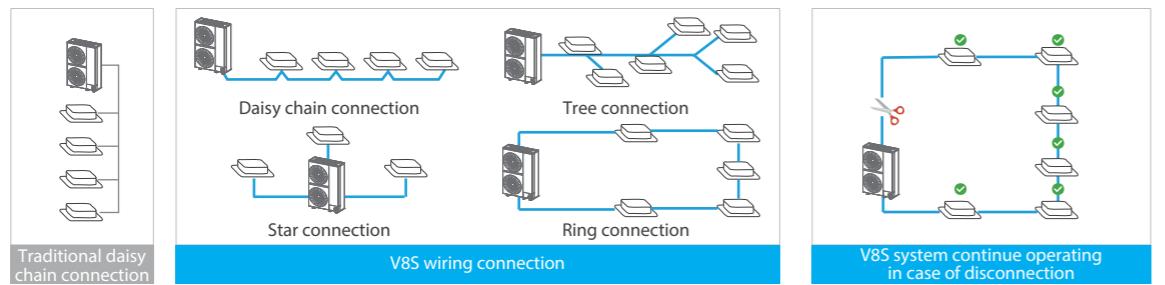
Midea original communication bus chip greatly simplifies installation and saves installation cost.



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.

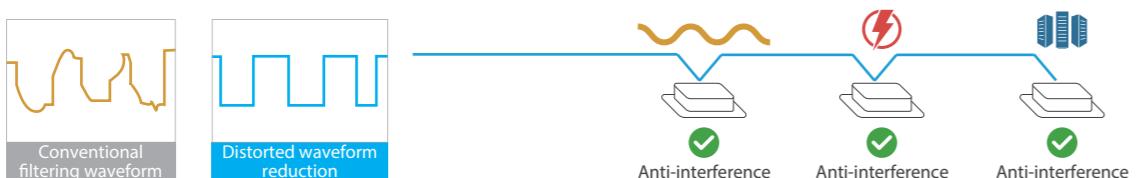
Support Any Topology Communication

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.



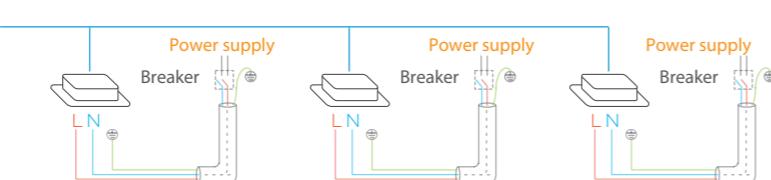
Super Anti-interference Capability

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



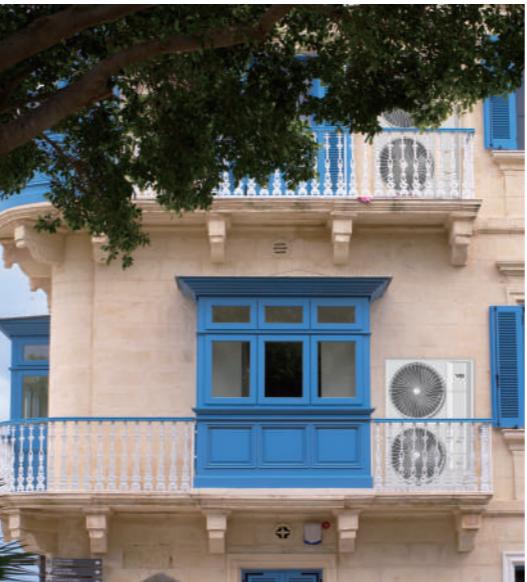
Flexible Power Supply for Indoor Units

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
Flexible installation
Low installation cost
High reliability
Stable operation

Maximum 4 outdoor units can be combined in one refrigerant system and the maximum capacity up 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.



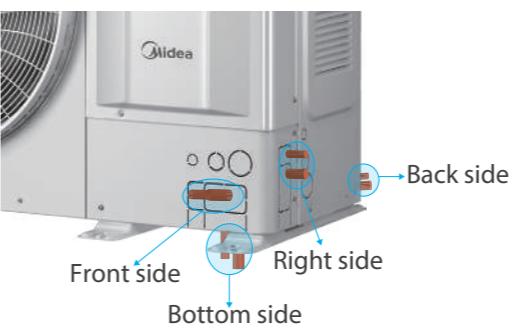
Space Saving

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.



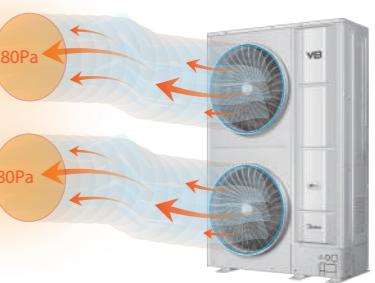
Four-way Piping Connection

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

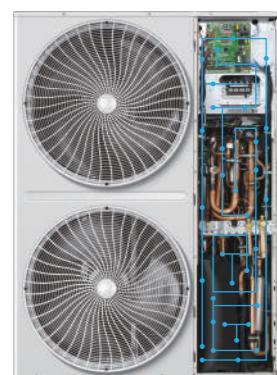
The status of the refrigerant is known anywhere throughout the process, ensuring high **RELIABILITY** and **COMFORT**.



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.

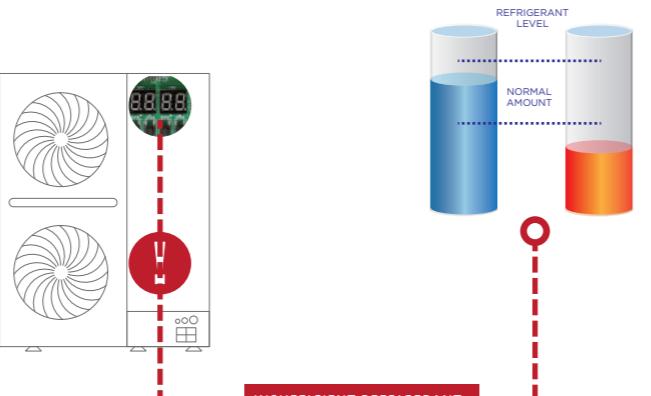
Complete Sensors

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.

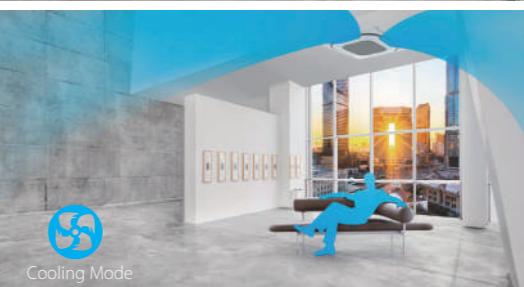
Vitual Sensor Backup

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



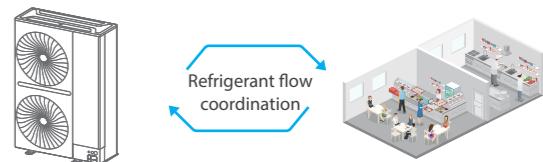
Fast cooling/heating

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



STEP 1: Architectural space feature recognition

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

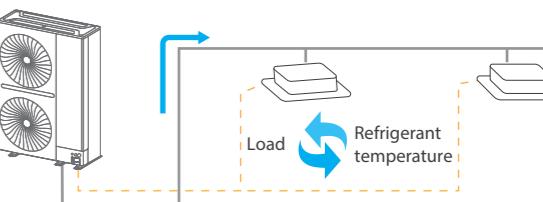


Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.



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.

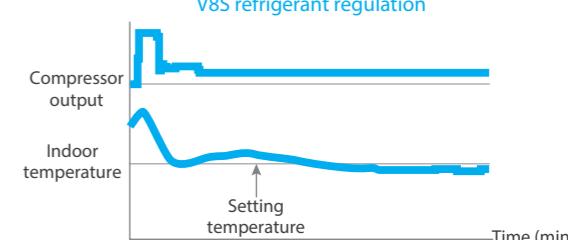
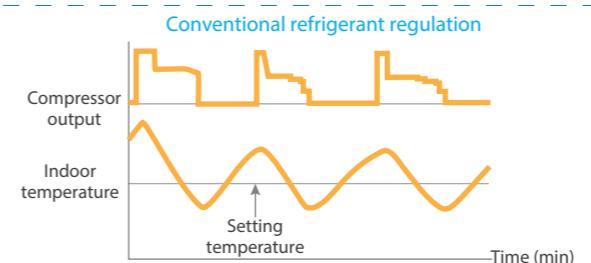


STEP 3: Adaptive indoor airflow and refrigerant flow

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



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



ZEN AIR 2.0

Further upgraded ZEN AIR technology to maximize COMFORT.



Sleep mode



Soft wind mode

Benefits



Quiet



Enhanced comfort



Healthy

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

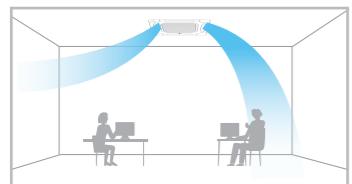
360° Airflow

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



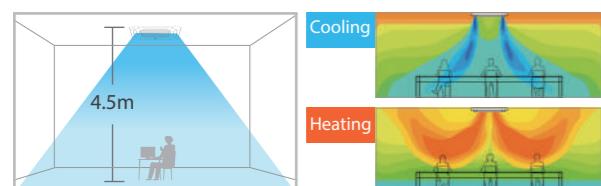
Individual Louver Control

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



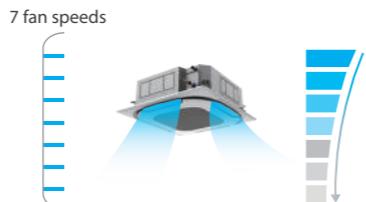
Long Distance Air Delivery*

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.



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

CE
Ozone-Free
UV leakage-Free

*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.

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.



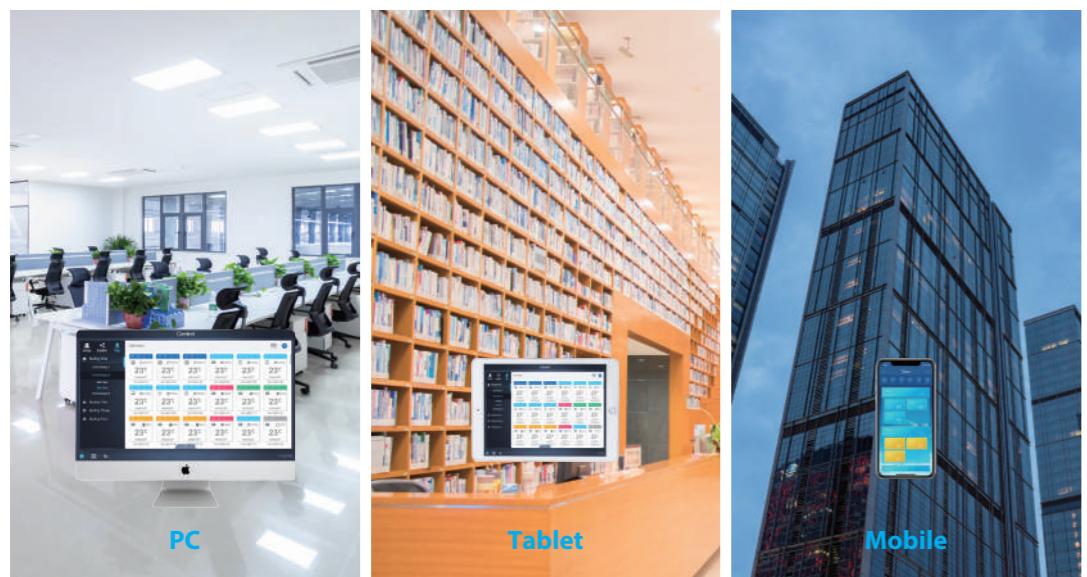
Cloud-based Big Data Analytics

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

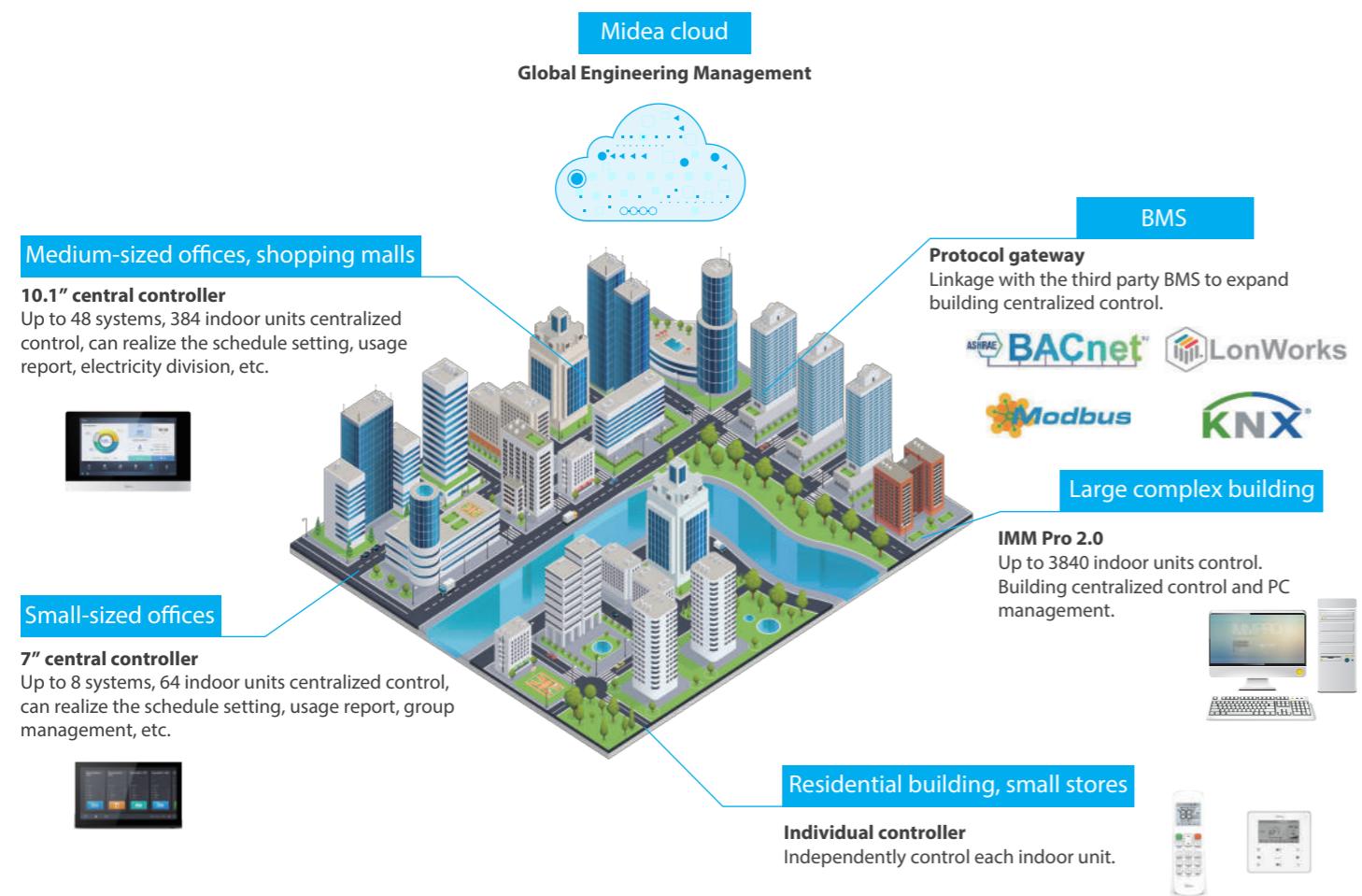
Intelligent control brings a new experience.



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, 12 models	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 Model name	8 MV8S-252WV2RN1	10 MV8S-280WV2RN1	12 MV8S-335WV2RN1	14 MV8S-400WV2RN1
Power supply	V/N/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	25.2	28
		kBtu/h	86.0	95.5
Heating ^{2(Rated)}	Capacity	kW	25.2	28
		kBtu/h	86.0	95.5
Heating ^{2(Max)}	Capacity	kW	27	31.5
		kBtu/h	92.1	107.5
SEER		7.25	7.05	6.91
ηs.c	%	287.0	279.0	273.4
SCOP		4.15	4.11	4.11
ηs.h	%	163.0	161.4	161.4
Connected indoor unit	Total capacity	50-130%	50-130%	50-130%
	Maximum quantity	13	16	19
	Type	DC inverter	DC inverter	DC inverter
Compressor	Quantity	1	1	1
	Oil type	FVC68D	FVC68D	FVC68D
	Start-up method	Soft start	Soft start	Soft start
	Type	Propeller	Propeller	Propeller
	Motor type	DC	DC	DC
Fan	Quantity	2	2	2
	Motor output	kW	0.2×2	0.2×2
	Static pressure	Pa	0-35 (standard)35-80 (customized)	
	Airflow rate	m ³ /h	11800	12500
			12500	12500
	Drive type		Direct	Direct
Refrigerant	Type	R410A	R410A	R410A
	Factory charge	kg	6.1	6.1
Pipe connections ³	Liquid pipe	mm	Ø12.7	Ø12.7
	Gas pipe	mm	Ø25.4	Ø25.4
Sound pressure level ⁴	dB(A)	56	57	58
Sound power level ⁴	dB(A)	76	79	81
Net dimensions (W×H×D)	mm	1130×1760×580	1130×1760×580	1130×1760×580
Packed dimensions (W×H×D)	mm	1210×1916×597	1210×1916×597	1210×1916×597
Net weight	kg	177	177	180
Gross weight	kg	191	191	194
Ambient temp.	Cooling	°C	-15 to 55	-15 to 55
operation range	Heating	°C	-30 to 30	-30 to 30

Notes:

1. 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.
2. Indoor air temperature 20°C DB; outdoor air temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference; connect to Cassette type indoor unit.
3. Diameters given are those of the unit's stop valve.
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.

Specification

Combinable Series

HP Model name	16 MV8S-450WV2RN1	18 MV8S-500WV2RN1	20 MV8S-560WV2RN1	22 MV8S-615WV2RN1
Power supply	V/N/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	45	50
		kBtu/h	153.5	170.6
Heating ^{2(Rated)}	Capacity	kW	45	50
		kBtu/h	153.5	170.6
Heating ^{2(Max)}	Capacity	kW	50	56.5
		kBtu/h	170.6	192.8
SEER		6.77	6.47	6.30
ηs.c	%	267.8	255.8	249.0
SCOP		4.23	4.17	4.07
ηs.h	%	166.2	163.8	159.8
Connected indoor unit	Total capacity	50-130%	50-130%	50-130%
	Maximum quantity	26	29	32
Compressor	Type	DC inverter	DC inverter	DC inverter
	Quantity	1	1	1
	Oil type	FVC68D	FVC68D	FVC68D
	Start-up method	Soft start	Soft start	Soft start
	Type	Propeller	Propeller	Propeller
	Motor type	DC	DC	DC
Fan	Quantity	2	2	2
	Motor output	kW	0.56×2	0.56×2
	Static pressure	Pa	0-35 (standard)35-80 (customized)	
	Airflow rate	m ³ /h	18500	20000
	Drive type		Direct	Direct
Refrigerant	Type	R410A	R410A	R410A
	Factory charge	kg	8	8.5
Pipe connections ³	Liquid pipe	mm	Ø15.9	Ø15.9
	Gas pipe	mm	Ø28.6	Ø28.6
Sound pressure level ⁴	dB(A)	60	61	61
Sound power level ⁴	dB(A)	86	88	89
Net dimensions (W×H×D)	mm	1250×1760×580	1250×1760×580	1250×1760×580
Packed dimensions (W×H×D)	mm	1330×1916×597	1330×1916×597	1330×1916×597
Net weight	kg	208	208	228
Gross weight	kg	223	223	243
Ambient temp.	Cooling	°C	-15 to 55	-15 to 55
operation range	Heating	°C	-30 to 30	-30 to 30

Notes:

1. 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.
2. Indoor air temperature 20°C DB; outdoor air temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference; connect to Cassette type indoor unit.
3. Diameters given are those of the unit's stop valve.
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.