

V8

The V8 Series VRF uses algorithms and self-learning technology to monitor the operation of the equipment, so that the equipment can run stably and be maintained in time to ensure that the equipment always runs in optimal condition throughout its life cycle.

OUTDOOR UNITS

V8 (COMBINABLE SERIES)



Outdoor Unit Lineup

V8 (Combinable series)

HP	8-16	18-22
Single Unit		
HP	24-44	46-66
Combined Unit		

HyperLink

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

Benefits



Flexible installation



Low installation cost



High reliability

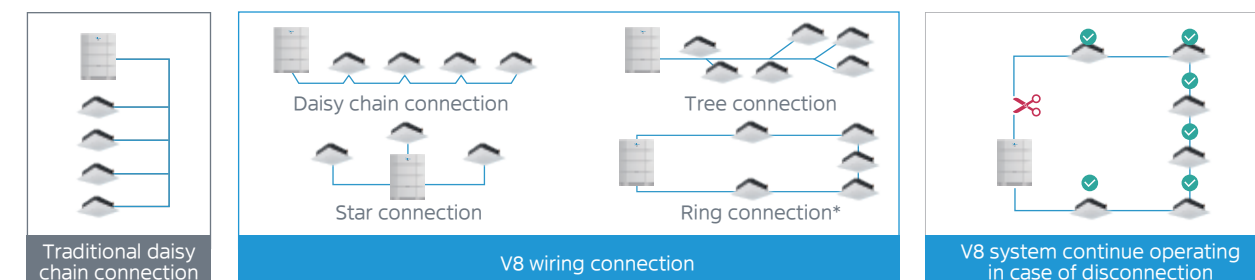


Stable operation

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

Flexible Communication Wire Topology

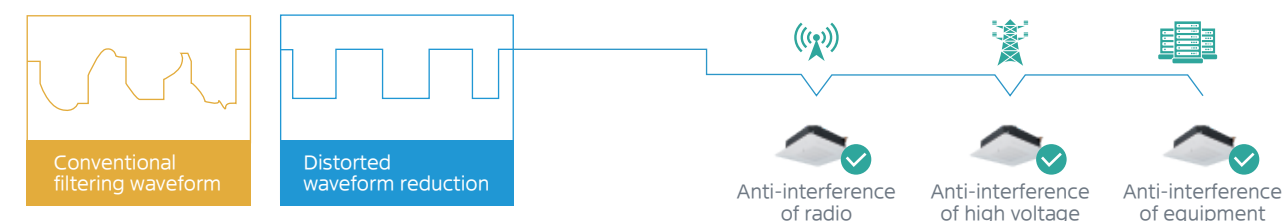
In addition to the traditional daisy chain connection, multiple wiring topologies are supported including serial, tree and ring connections. This flexibility reduces installation costs while eliminating potential wiring errors.



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

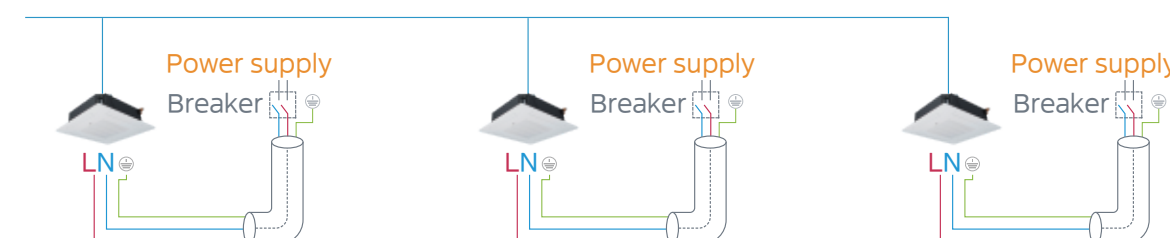
Super Anti-interference Capability

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



Flexible Power Supply for Indoor Units

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



ShieldBox

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

Benefits



High reliability

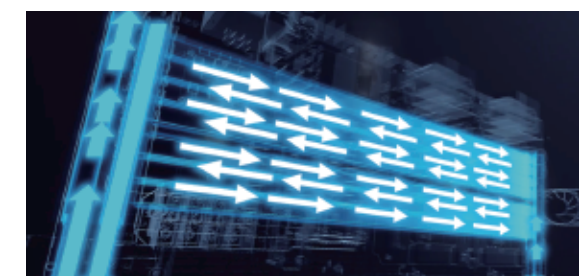


Stable operation

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

All Micro-channel Refrigerant Cooling

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



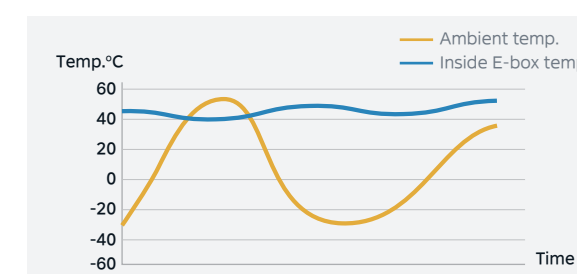
PTC Heater*

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

*Available as a customized option.

Built-in Circulating Fan

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



Multiple High-Precision Temperature Sensors

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

SuperSense

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

Benefits



High reliability



Stable operation



Enhanced comfort

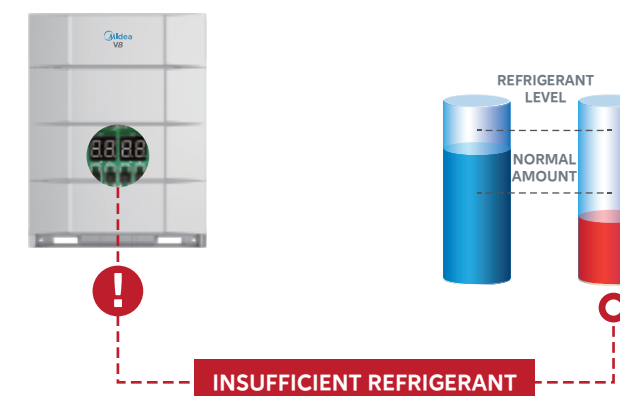
Comprehensive Sensor Grid

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



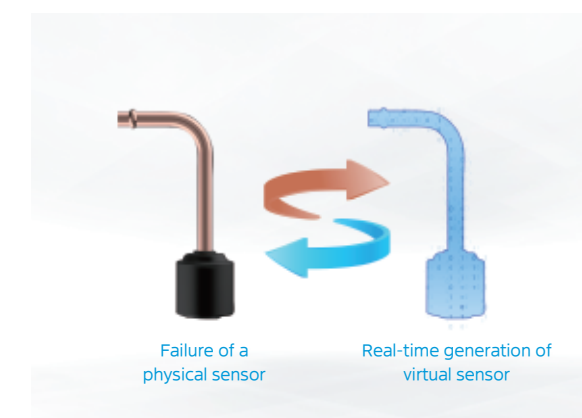
Refrigerant Volume Monitoring

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



Virtual Sensor Backup

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



ETA 2.0

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

Benefits



Energy saving



Enhanced comfort



Rapid cooling/heating

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



Variable Refrigerant Flow

STEP 1

Intelligent space recognition

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



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

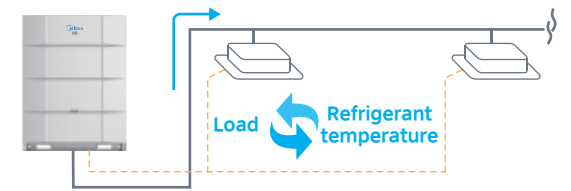


Variable Refrigerant Temperature

STEP 2

Automatic refrigerant temperature modulation

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



Automatic matching of the corresponding refrigerant temperature to the load.



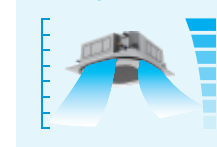
Variable Indoor Airflow

STEP 3

Adaptive indoor airflow and refrigerant flow

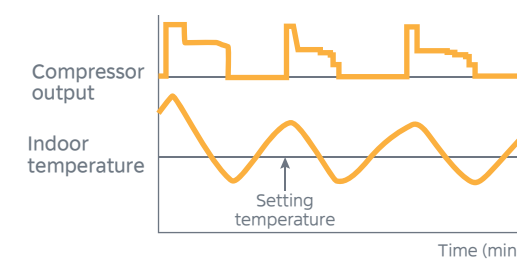
Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise

7 fan speeds

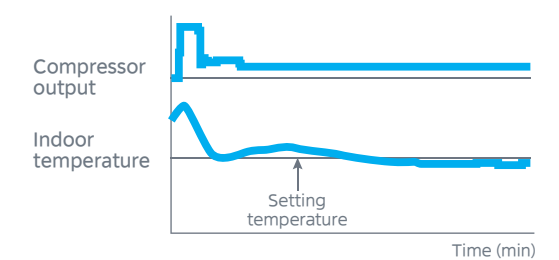


Automatic indoor airflow adjustment based on the calculated load and refrigerant temperature.

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



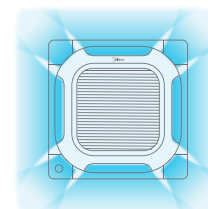
Enhanced comfort



Healthy

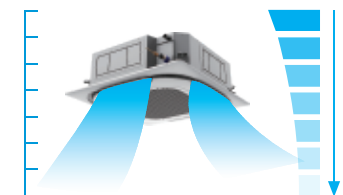
360° Airflow

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



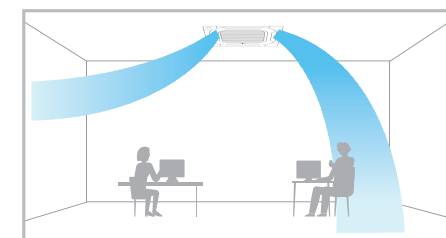
7 Fan Speeds

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



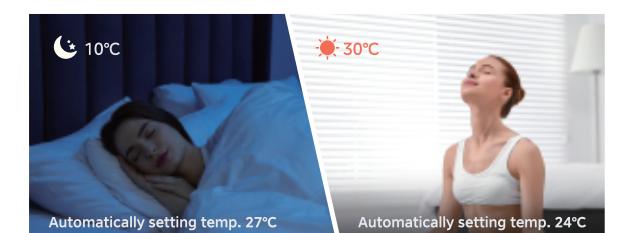
Individual Louver Control

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



Sleep Mode

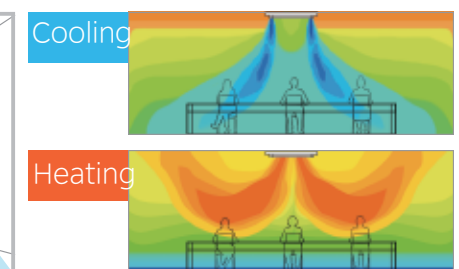
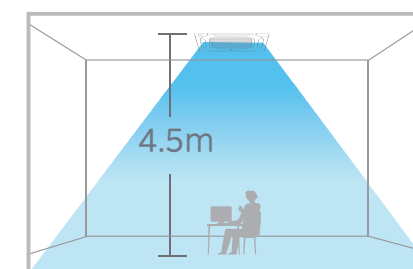
A smart sleep mode provides a comfortable sleep period and a refreshing wake up time.



*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.



DOCTOR m. 2.0

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

Benefits



Easy maintenance



Fast maintenance



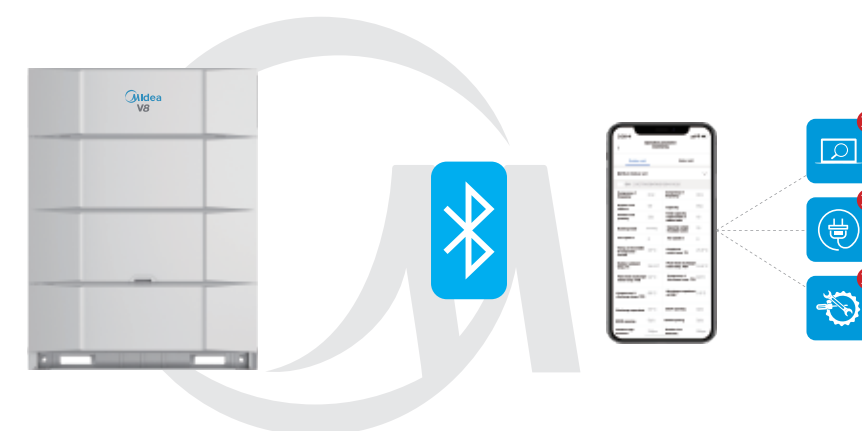
Low maintenance cost



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.



Cloud Data Synchronization*

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

*Data cloud gateway must be purchased separately.



Cloud-based Analytics

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

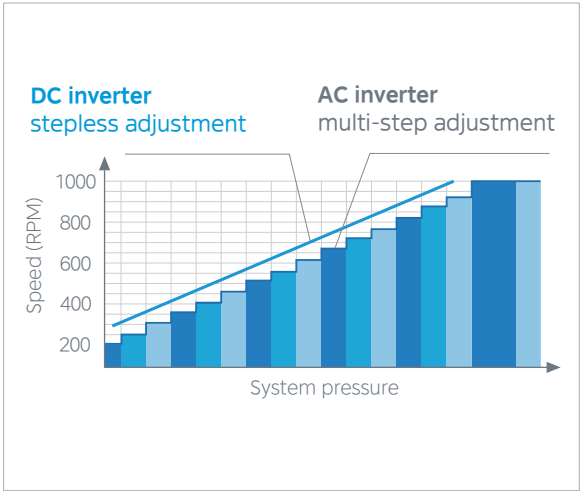
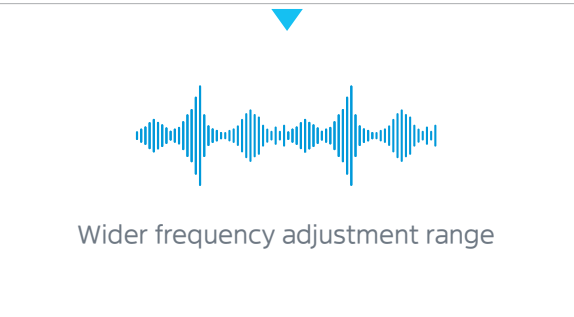
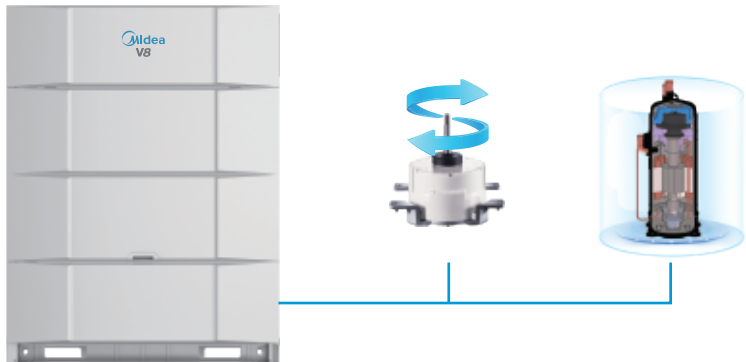


HIGH EFFICIENCY

Full DC Inverter Technology

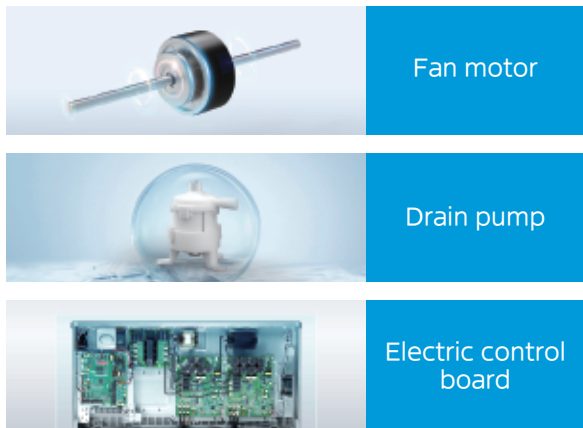
Full DC Inverter Outdoor Components

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

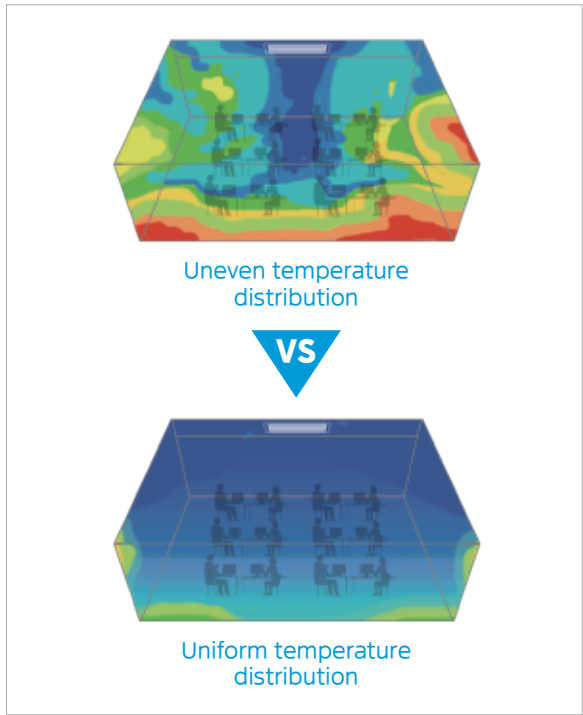


Full DC Inverter Indoor Components

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



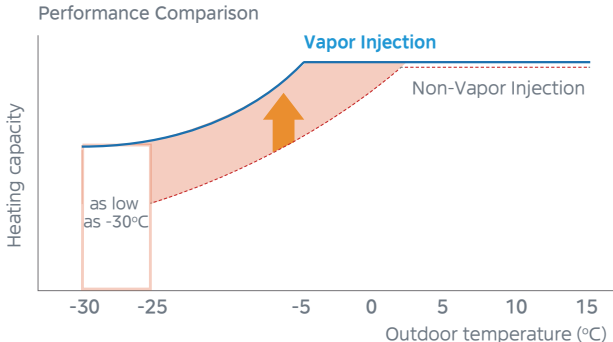
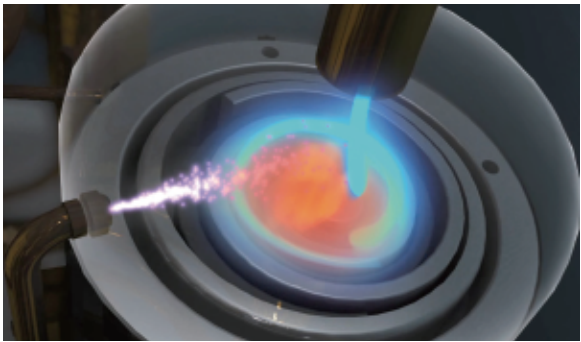
20%
Efficiency
improvements



HIGH EFFICIENCY

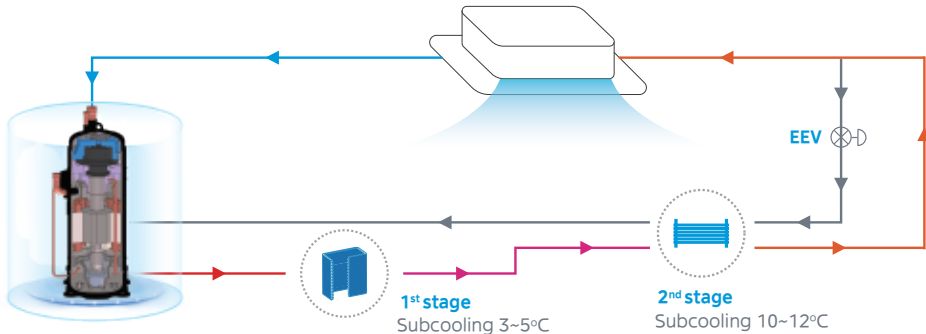
Enhanced Vapor Injection (EVI) Compressor

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



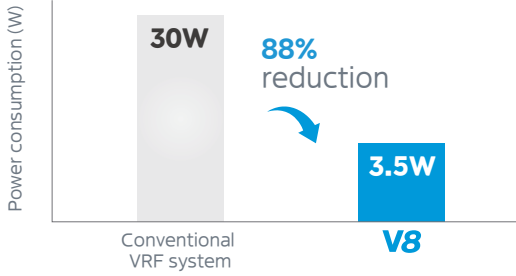
Advanced Subcooling Technology

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



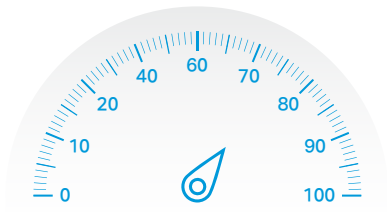
Low Standby Power Consumption

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



60-step Energy Management

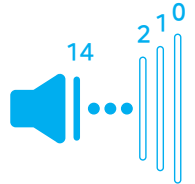
In situations with temporary electrical supply constraints, the outdoor unit offers a 60-step energy management feature which enables precise adjustment of output capacity from 40% to 100%, in 1% increments. This mitigates the risk of circuit tripping and allows the system to operate even in the presence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



ENHANCED COMFORT

Advanced Silent Technology

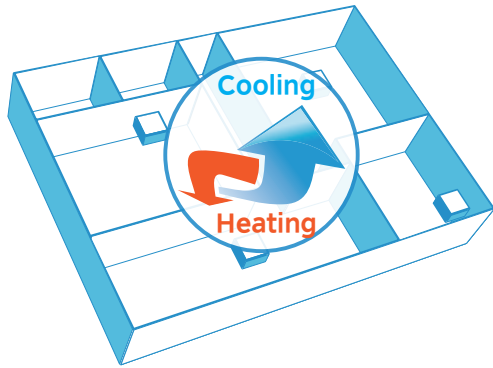
A 15-level silent mode gives your customers maximum customization options.



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).



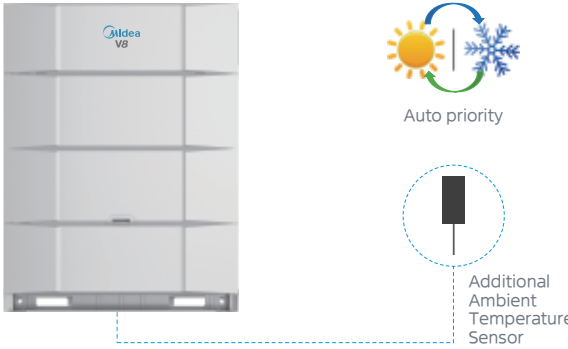
10 Priority Modes

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.

HIGH RELIABILITY

Quadruple Backup

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

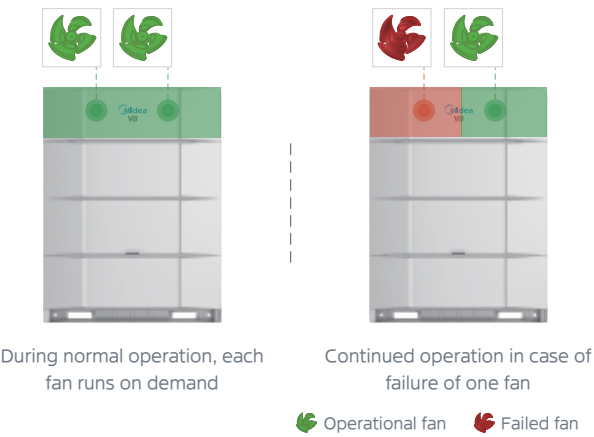
1 Unit Backup

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



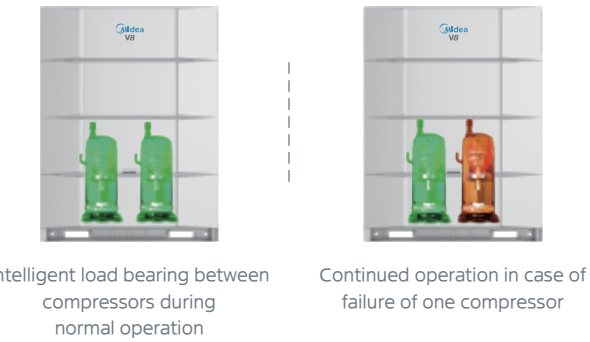
2 Fan Backup

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



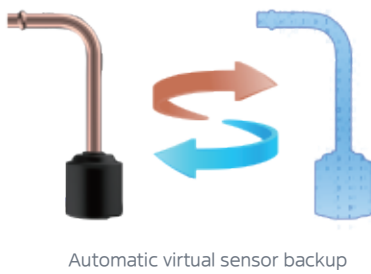
3 Compressor Backup

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



4 Virtual Sensor Backup

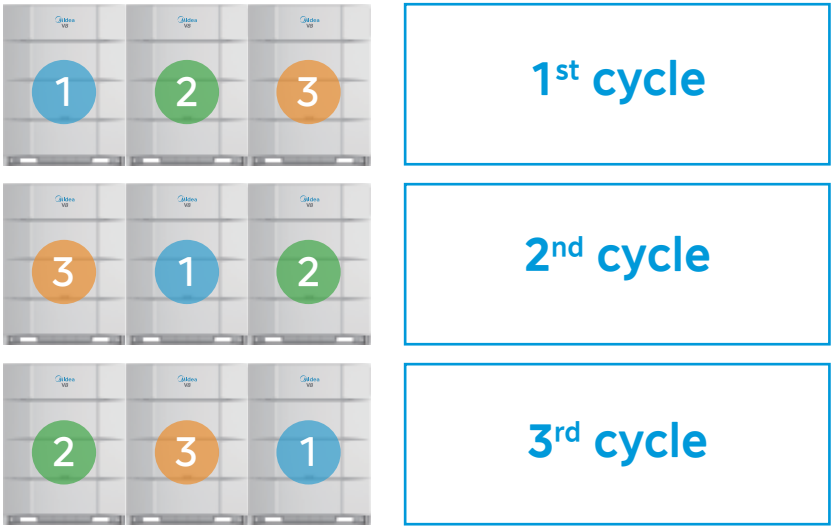
By employing an algorithm, every physical sensor can create a corresponding virtual sensor, which serves as a backup. This ensures system operation remains unaffected in the event of a sensor failure.



Dual Duty Cycling Modes

1 Unit Duty Cycling

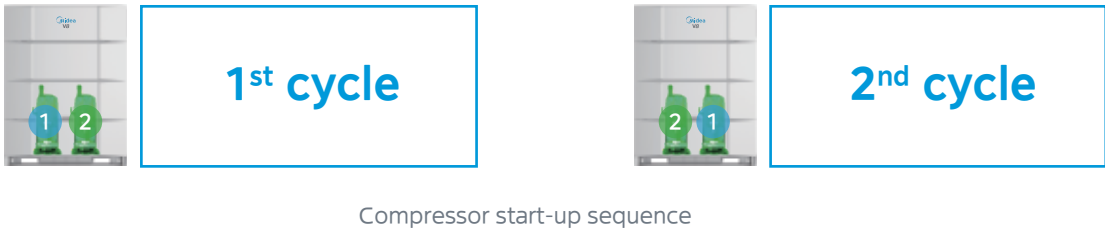
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



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

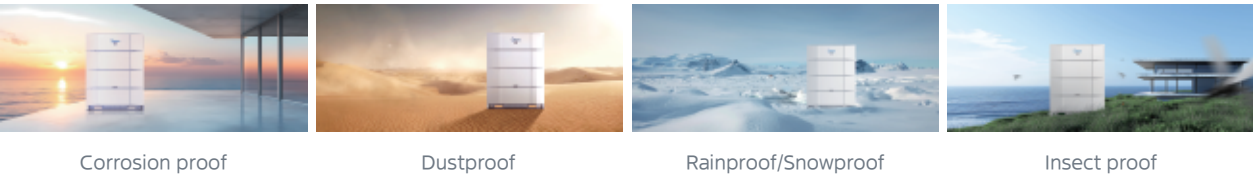
2 Compressor Duty Cycling

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



ShieldBox

Enclosed electrical control box provides robust protection for internal electrical components, greatly improving system reliability.



HIGH RELIABILITY

SuperSense

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



Precise Oil Control

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

1

A diagram of a cylindrical compressor with an internal oil separator. The separator is shown as a vertical tube with a wider section at the bottom where oil collects.

Compressor internal oil separation.

2

A diagram of a centrifugal oil separator, which is a vertical tube with a curved, S-shaped internal structure designed to separate oil from the discharge gas.

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

A diagram showing a square component, likely a control unit or sensor, with a grid of points and lines indicating a return path.

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

Anti-corrosion Protection

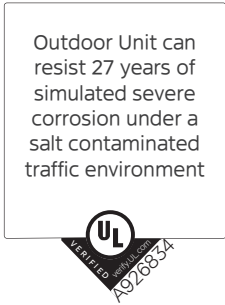
Standard outdoor units are given anti-corrosion treatment for non-extreme conditions and can also be customized with heavy anti-corrosion treatment* on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful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

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



UL Anti-Corrosion Certificate*

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



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

Auto Snow-Removal Function

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



Auto Dust-Removal Function

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



Earthquake Proof Up to Magnitude 8*

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



*Available as a customized option.

Powerful Wind Resistance*

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



*Available as a customized option.

WIDE APPLICATION RANGE

Wide Capacity Range

The V8 Series VRF are available in combinable series. And the combinable series from 8HP to 66HP, perfectly suited for small to large buildings.

V8 - Combinable Series

Single unit 8-16HP		Single unit 18-24HP	
Combined unit 24-44HP		Combined unit 46-66HP	

Wide Range of Indoor Units

The V8 Series VRF offers 12 types of over 100 models of indoor units to meet different scenarios of applications such as offices, shopping malls, hotels, airports, schools, hospitals, etc.



Wide Operation Range

Thanks to the EVI compressor and refrigerant cooling technology, the V8 Series VRF can operate at temperatures as low as -30°C for heating and up to 55°C for cooling.



Long Piping Capability

The V8 system can support a total piping length of up to 1100m, an installation height difference of up to 110m between indoor and outdoor units, and up to 40m between indoor units, making the V8 Series VRF adaptable to a wide range of building designs.

Total piping length: **1100m**

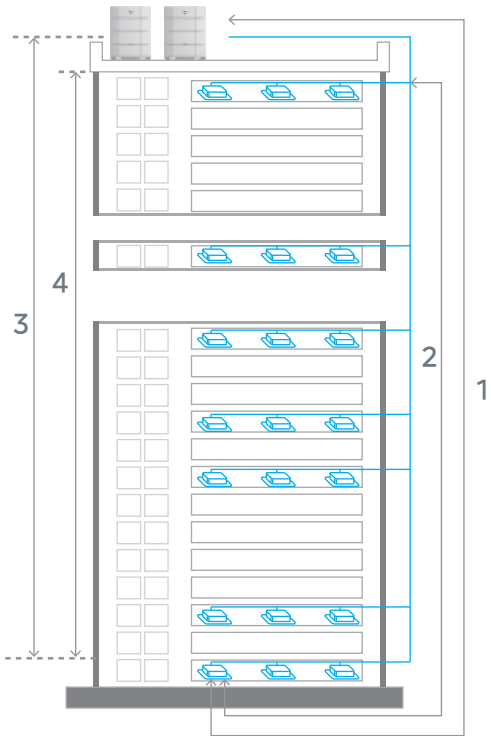
1 Longest piping length - actual (equivalent): **220(260)m**

2 Longest piping length after first branch: **40/120*m**

3 Level difference between IDUs and ODU - ODU above (below): **110(110)m**

4 Level difference between IDUs: **40m**

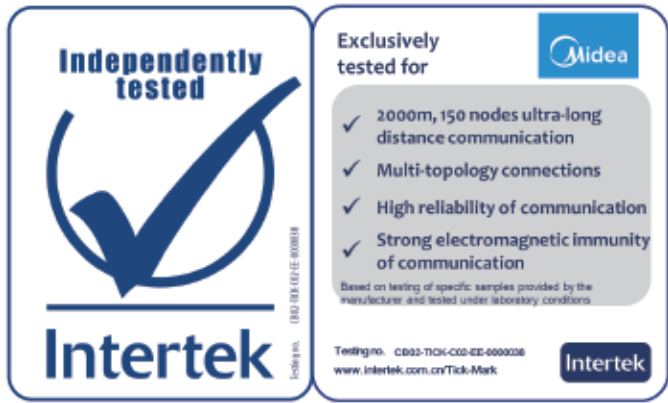
*The longest length after first branch is 40m as a standard but can be extended to up to 120m under certain conditions. Please contact your local dealer for further information.



EASY INSTALLATION AND SERVICE

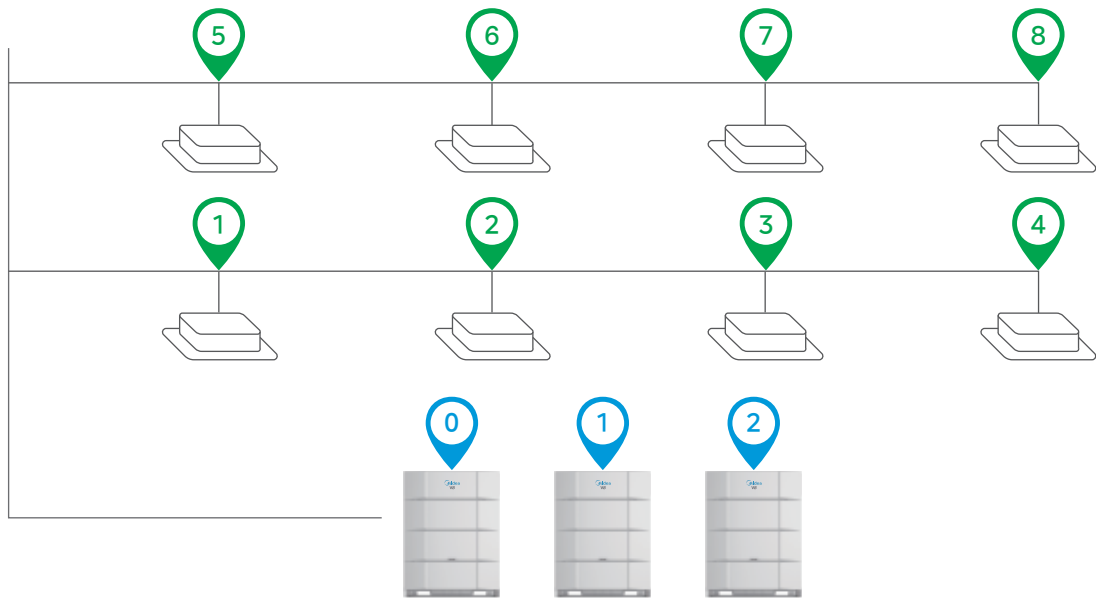
Free Wiring

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



Auto Addressing

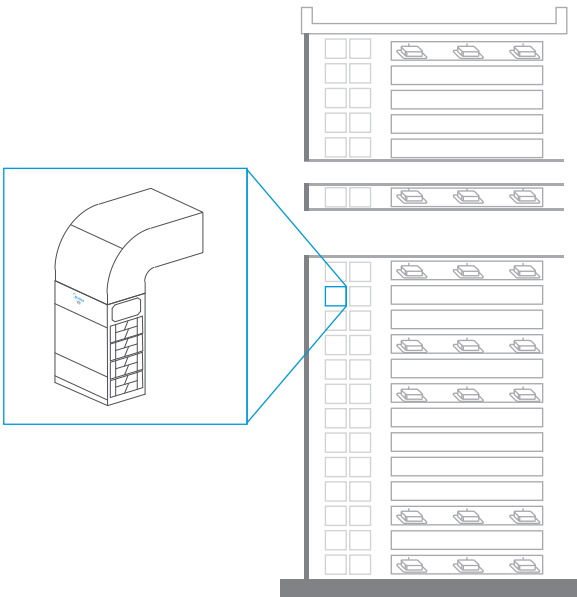
Addresses for all indoor units and combined outdoor units can be assigned automatically by the V8 system, further simplifying installation.



External Static Pressure up to 120Pa*

The static pressure of the outdoor unit can be up to 120Pa which facilitates installation of the unit on each floor of high-rise buildings or on balconies.

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



Automatic Refrigerant Charging*

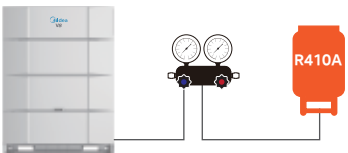
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

Manual refrigerant charging

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

Automatic refrigerant charging

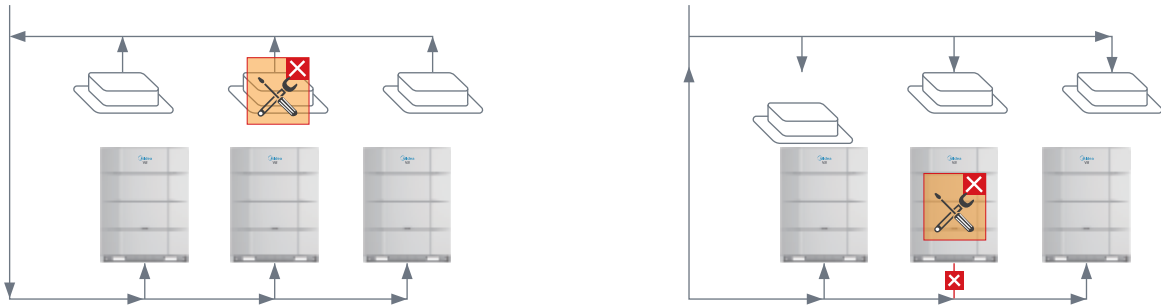
- 1 Connect refrigerant tank to the outdoor unit & activate automatic charging function
- 2 Close the shut-off valve automatically & finish the filling process



*Available as a customized option.

Automatic Refrigerant Recycling

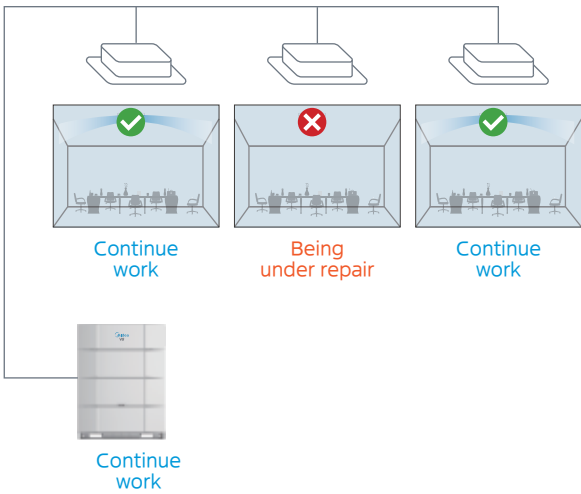
When an indoor unit requires maintenance, refrigerant can be transferred to the outdoor units for temporary storage. This feature also works in reverse when outdoor units need maintenance as refrigerant can be directed to the indoor units or other outdoors for temporary holding. This simplifies and expedites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



EASY INSTALLATION AND SERVICE

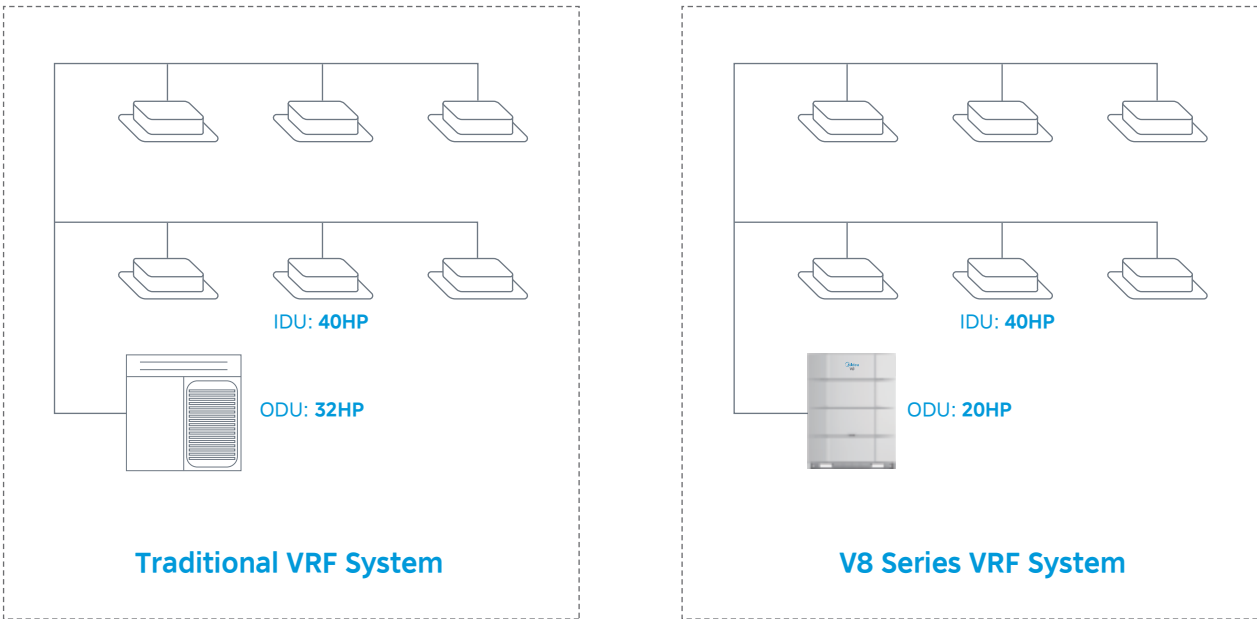
Maintenance Mode

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



Wide Combination Ratio*

Compared to traditional VRF with combination ratio of 50-130%, the V8 Series VRF can be extended to 50-200%, and the wider combination ratio allows for more flexible system configuration. The larger combination ratio can be applied to long-term part-load operation scenarios, allowing for further reduction in installation costs.



*Combination ratio over 130% is available as a customized option.

Easy Software Program Upgrade

In addition to upgrading the program of outdoor and indoor units through USB and burner, the new product can also remotely upgrade all the programs of indoor and outdoor units through the data cloud gateway, making system upgrades very convenient and ensuring that the system program is always up to date.

*Data cloud gateway must be purchased separately.

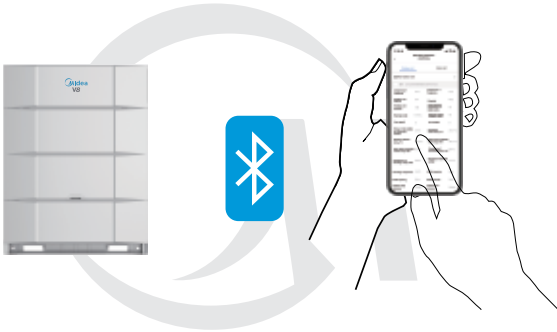


Smart Commissioning/Maintenance Tool

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

Useful in the following situations

- Installation
- Service maintenance



Main functions

- Fault information storage
- Operating parameters query
- Start commissioning test run
- System parameter setting
- Quick after-sales PCB replacement
- Equipment control
- Indoor and outdoor units programme upgrade



Specifications

V8 (Combinable series)

HP			8	10	12	14
Model name			MV8-252WV2RN1E(MA)	MV8-280WV2RN1E(MA)	MV8-335WV2RN1E(MA)	MV8-400WV2RN1E(MA)
Power supply			V/Ph/Hz 380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	85.9	95.5	114.2	136.4
	Power input	kW	7.75	8.67	11.47	13.79
	EER		3.25	3.23	2.92	2.90
Heating ² (Rated)	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	85.9	95.5	114.2	136.4
	Power input	kW	6.4	7.3	9.4	11.1
	COP		3.95	3.82	3.55	3.60
Heating ² (Max)	Capacity	kW	27.0	31.5	37.5	45.0
		kBtu/h	92.1	107.4	127.9	153.5
	Power input		7.01	8.59	11.30	13.17
	COP		3.85	3.67	3.32	3.42
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity			
	Maximum quantity		13	16	19	23
Compressor	Type		DC inverter			
	Quantity		1	1	1	1
	Oil type		FV68H	FV68H	FV68H	FV68H
	Start-up method		Soft start	Soft start	Soft start	Soft start
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1	1	1	1
	Motor output	kW	0.56	0.56	0.56	0.92
Refrigerant	Airflow rate	m³/h	12600	12600	13500	15600
	Drive type		Direct	Direct	Direct	Direct
	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	7	7	7	8
Pipe connections ³	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4	Φ28.6
Sound pressure level ⁴		dB(A)	58	58	61	63
Net dimensions (W×H×D)		mm	940×1760×825			
Packed dimensions (W×H×D)		mm	1010×1945×890			
Net weight		kg	195	195	195	218
Gross weight		kg	213	213	213	236
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			24	26	28
Model name (Combination unit)			MV8-670WV2RN1E(MA)	MV8-730WV2RN1E(MA)	MV8-785WV2RN1E(MA)
Combination type			12HP+12HP	10HP+16HP	12HP+16HP
Power supply			V/N/Hz 380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	67.0	73.0	78.5
		kBtu/h	228.5	248.9	267.7
	Power input	kW	22.9	26.5	29.3
	EER		2.93	2.75	2.68
Heating ² (Rated)	Capacity	kW	67.0	73.0	78.5
		kBtu/h	228.5	248.9	267.7
	Power input	kW	18.9	19.8	21.9
	COP		3.54	3.69	3.58
Heating ² (Max)	Capacity	kW	75.0	81.5	87.5
		kBtu/h	255.8	277.9	298.4
	Power input	kW	22.6	24.2	26.9
	COP		3.32	3.37	3.25
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		39	43	46
Compressor	Type		DC inverter		
	Quantity		2	2	2
	Oil type		FV68H	FV68H	FV68H
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller		
	Motor type		DC		
	Quantity		2	2	2
	Motor output	kW	0.56×2	0.56+0.92	0.56+0.92
Refrigerant	Airflow rate	m³/h	27000	28200	29100
	Drive type		Direct	Direct	Direct
	Type		R410A	R410A	R410A
	Factory charge	kg	7×2	7+8	7+8
Pipe connections ³	Liquid pipe	mm	Φ19.1	Φ19.1	
	Gas pipe	mm	Φ31.8	Φ38.1	
Sound pressure level ⁴		dB(A)	64	65	66
Net dimensions (W×H×D)		mm	(940×1760×825)×2		
Packed dimensions (W×H×D)		mm	(1010×1945×890) ×2		
Net weight		kg	195×2	195+218	195+218
Gross weight		kg	213×2	213+236	213+236
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30

HP			16	18	20	22
Model name			MV8-450WV2RN1E(MA)	MV8-500WV2RN1E(MA)	MV8-560WV2RN1E(MA)	MV8-615WV2RN1E(MA)
Power supply			V/Ph/Hz 380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.5	191.0	209.7
	Power input	kW	17.86	17.86	21.62	25.31
	EER		2.52	2.80	2.59	2.43
Heating ² (Rated)	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.5	191.0	209.7
	Power input	kW	12.5	13.2	15.3	16.9
	COP		3.60	3.80	3.65	3.63
Heating ² (Max)	Capacity	kW	50.0	56.0	63.0	69.0
		kBtu/h	170.5	191.0	214.8	235.3
	Power input		15.56	15.32	17.85	21.03
	COP		3.21	3.66	3.53	3.28
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity			
	Maximum quantity		26	29	33	36
Compressor	Type		DC inverter			
	Quantity		1	1	1	1
	Oil type		FV68H	FV68H	FV68H	FV68H
	Start-up method		Soft start	Soft start	Soft start	Soft start
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1	2	2	2
	Motor output	kW	0.92	0.56+0.56	0.56+0.56	0.56+0.56
Refrigerant	Airflow rate	m³/h	15600	22000	22000	21500
	Drive type		Direct	Direct	Direct	Direct
	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8	9.3	9.3	11.96
Pipe connections ³	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Sound pressure level ⁴		dB(A)	65	65	66	66
Net dimensions (W×H×D)		mm	940×1760×825			
Packed dimensions (W×H×D)		mm	1010×1945×890			
Net weight		kg	218	277	277	297
Gross weight		kg	236	297	297	317
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			30	32	34
Model name (Combination unit)			MV8-850WV2RN1E(MA)	MV8-900WV2RN1E(MA)	MV8-960WV2RN1E(MA)
Combination type			14HP+16HP	16HP+16HP	14HP+20HP
Power supply			V/N/Hz 380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	85.0	90.0	96.0
		kBtu/h	289.9	306.9	327.4
	Power input	kW	31.7	35.7	35.4
	EER		2.68	2.52	2.71
Heating ² (Rated)	Capacity	kW	85.0	90.0	96.0
		kBtu/h	289.9	306.9	327.4
	Power input	kW	23.6	25.0	26.5
	COP		3.60	3.60	3.62
Heating ² (Max)	Capacity	kW	95.0	100.0	108.0
		kBtu/h	324.0	341.0	368.3
	Power input	kW	28.7	31.1	31.0
	COP		3.31	3.22	3.48
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		50	53	56
Compressor	Type		DC inverter		
	Quantity		2	2	2
	Oil type		FV68H	FV68H	FV68H
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller		
	Motor type		DC		
	Quantity		2	2	3
	Motor output	kW	0.92×2	0.92×2	0.92+(0.56+0.56)
Refrigerant	Airflow rate	m³/h	31200	31200	37600
	Drive type		Direct	Direct	Direct
	Type		R410A	R410A	R410A
	Factory charge	kg	8×2	8×2	8+9.3
Pipe connections ³	Liquid pipe	mm	Φ19.1		
	Gas pipe	mm	Φ38.1		
Sound pressure level ⁴		dB(A)	68	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)×2		
Packed dimensions (W×H×D)		mm	(1010×1945×890) ×2		
Net weight		kg	218×2	218×2	218+277
Gross weight		kg	236×2	236×2	236+297
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8 (Combinable series)

HP			36	38	40
Model name (Combination unit)			MV8-1010WV2RN1E(MA)	MV8-1060WV2RN1E(MA)	MV8-1120WV2RN1E(MA)
Combination type			16HP+20HP	18HP+20HP	20HP+20HP
Power supply			V/N/Hz 380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	101.0	106.0	112.0
		kBtu/h	344.4	361.5	381.9
	Power input	kW	39.5	39.5	43.2
	EER		2.56	2.68	2.59
Heating ² (Rated)	Capacity	kW	101.0	106.0	112.0
		kBtu/h	344.4	361.5	381.9
	Power input	kW	27.8	28.5	30.7
	COP		3.63	3.72	3.65
Heating ² (Max)	Capacity	kW	113.0	119.0	126.0
		kBtu/h	385.3	405.8	429.7
	Power input	kW	33.4	33.2	35.7
	COP		3.38	3.58	3.53
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		59	62	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		2	2	3
	Oil type		FV68H	FV68H	FV68H
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		3	4	4
	Motor output	kW	0.92+(0.56+0.56)	(0.56+0.56)×2	(0.56+0.56)×2
Refrigerant	Airflow rate	m³/h	37600	44000	44000
	Drive type		Direct	Direct	Direct
	Type		R410A	R410A	R410A
	Factory charge	kg	8+9.3	9.3×2	9.3×2
Pipe connections ³	Liquid pipe	mm		Φ22.2	
	Gas pipe	mm		Φ41.3	
Sound pressure level ⁴		dB(A)	68	68	69
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)	(1340×1760×825)×2	
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)	(1410×1945×890)×2	
Net weight		kg	218+277	277×2	277×2
Gross weight		kg	236+297	297×2	297×2
Ambient temp.		°C	-15 to 55	-15 to 55	-15 to 55
operation range		°C	-30 to 30	-30 to 30	-30 to 30

HP			48	50	52
Model name (Combination unit)			MV8-1350WV2RN1E(MA)	MV8-1400WV2RN1E(MA)	MV8-1450WV2RN1E(MA)
Combination type			16HP+16HP+16HP	16HP+16HP+18HP	16HP+18HP+18HP
Power supply			V/N/Hz 380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	135.0	140.0	145.0
		kBtu/h	460.4	477.4	494.5
	Power input	kW	53.6	53.6	53.6
	EER		2.52	2.61	2.71
Heating ² (Rated)	Capacity	kW	135.0	140.0	145.0
		kBtu/h	460.4	477.4	494.5
	Power input	kW	37.5	38.2	38.8
	COP		3.60	3.66	3.74
Heating ² (Max)	Capacity	kW	150.0	156.0	162.0
		kBtu/h	511.5	532.0	552.4
	Power input	kW	46.7	46.4	46.2
	COP		3.21	3.36	3.51
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		3	3	3
	Oil type		FV68H	FV68H	FV68H
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		3	4	5
	Motor output	kW	0.92×3	0.92×2+(0.56+0.56)	0.92+(0.56+0.56)×2
Refrigerant	Airflow rate	m³/h	53200	46800	59600
	Drive type		Direct	Direct	Direct
	Type		R410A	R410A	R410A
	Factory charge	kg	8×3	8×2+9.3	8+9.3×2
Pipe connections ³	Liquid pipe	mm		Φ22.2	
	Gas pipe	mm		Φ41.3	
Sound pressure level ⁴		dB(A)	70	70	70
Net dimensions (W×H×D)		mm	(940×1760×825)×3	(940×1760×825)×2+(1340×1760×825)	(940×1760×825)+(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)×3	(1010×1945×890)×2+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)×2
Net weight		kg	218×3	218×2+277	218+277×2
Gross weight		kg	236×3	236×2+297	236+297×2
Ambient temp.		°C	-15 to 55	-15 to 55	-15 to 55
operation range		°C	-30 to 30	-30 to 30	-30 to 30

HP			42	44	46
Model name (Combination unit)			MV8-1175WV2RN1E(MA)	MV8-1230WV2RN1E(MA)	MV8-1300WV2RN1E(MA)
Combination type			20HP+22HP	22HP+22HP	14HP+16HP+16HP
Power supply			V/N/Hz 380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	117.5	123.0	130.0
		kBtu/h	400.7	419.4	443.3
	Power input	kW	46.9	50.6	49.5
	EER		2.51	2.43	2.63
Heating ² (Rated)	Capacity	kW	117.5	123.0	130.0
		kBtu/h	400.7	419.4	443.3
	Power input	kW	32.3	33.9	36.1
	COP		3.64	3.63	3.60
Heating ² (Max)	Capacity	kW	132.0	138.0	145.0
		kBtu/h	450.1	470.6	494.5
	Power input	kW	38.9	42.1	44.3
	COP		3.39	3.28	3.27
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		2	2	3
	Oil type		FV68H	FV68H	FV68H
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		4	4	3
	Motor output	kW	(0.56+0.56)×2	(0.56+0.56)×2	0.92×3
Refrigerant	Airflow rate	m³/h	43500	43000	46800
	Drive type		Direct	Direct	Direct
	Type		R410A	R410A	R410A
	Factory charge	kg	9.3+11.96	11.96×2	8×3
Pipe connections ³	Liquid pipe	mm		Φ22.2	
	Gas pipe	mm		Φ41.3	
Sound pressure level ⁴		dB(A)	69	69	70
Net dimensions (W×H×D)		mm	(1340×1760×825)×2		(940×1760×825)×3
Packed dimensions (W×H×D)		mm	((1410×1945×890)×2		(1010×1945×890)×3
Net weight		kg	277+297	297×2	218×3
Gross weight		kg	297+317	317×2	236×3
Ambient temp.		°C	-15 to 55	-15 to 55	-15 to 55
operation range		°C	-30 to 30	-30 to 30	-30 to 30

HP			54	56	58
Model name (Combination unit)			MV8-1510WV2RN1E(MA)	MV8-1570WV2RN1E(MA)	MV8-1620WV2RN1E(MA)
Combination type			16HP+18HP+20HP	16HP+20HP+20HP	18HP+20HP+20HP
Power supply			V/N/Hz 380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	151.0	157.0	162.0
		kBtu/h	514.9	535.4	552.4
	Power input	kW	57.3	61.1	61.1
	EER		2.64	2.57	2.65
Heating ² (Rated)	Capacity	kW	151.0	157.0	162.0
		kBtu/h	514.9	535.4	552.4
	Power input	kW	41.0	43.2	43.8
	COP		3.68	3.63	3.70
Heating ² (Max)	Capacity	kW	169.0	176.0	182.0
		kBtu/h	576.3	600.2	620.6
	Power input	kW	48.7	51.3	51.0
	COP		3.47	3.43	3.57
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		3	3	3
	Oil type		FV68H	FV68H	FV68H
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		5	5	6
	Motor output	kW	0.92+(0.56+0.56)×2	0.92+(0.56+0.56)×2	(0.56+0.56)×3
Refrigerant	Airflow rate	m³/h	59600	59600	66000
	Drive type		Direct	Direct	Direct
	Type		R410A	R410A	R410A
	Factory charge	kg	8+9.3×2	8+9.3×2	9.3×3
Pipe connections ³	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ41.3	Φ41.3	Φ44.5
Sound pressure level ⁴		dB(A)	70	70	70
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)×2		(1340×1760×825)×3
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)×2		(1410×1945×890)×3
Net weight		kg	218+277×2	218+277×2	277×3
Gross weight		kg	236+297×2	236+297×2	297×3
Ambient temp.		°C	-15 to 55	-15 to 55	-15 to 55
operation range		°C	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8 (Combinable series)

HP			60	62	64	66
Model name (Combination unit)			MV8-1680WV2RN1E(MA)	MV8-1735WV2RN1E(MA)	MV8-1790WV2RN1E(MA)	MV8-1845WV2RN1E(MA)
Combination type			20HP+20HP+20HP	20HP+20HP+22HP	20HP+22HP+22HP	22HP+22HP+22HP
Power supply			V/N/Hz380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling ¹	Capacity	kW	168.0	173.5	179.0	184.5
		kBtu/h	572.9	591.6	610.4	629.1
	Power input	kW	64.9	68.6	72.2	75.9
	EER		2.59	2.53	2.48	2.43
Heating ² (Rated)	Capacity	kW	168.0	173.5	179.0	184.5
		kBtu/h	572.9	591.6	610.4	629.1
	Power input	kW	46.0	47.6	49.2	50.8
	COP		3.65	3.64	3.64	3.63
Heating ² (Max)	Capacity	kW	189.0	195.0	201.0	207.0
		kBtu/h	644.5	665.0	685.4	705.9
	Power input	kW	53.5	56.7	59.9	63.1
	COP		3.53	3.44	3.36	3.28
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity			
	Maximum quantity		64			
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		3	3	3	3
	Oil type		FV68H	FV68H	FV68H	FV68H
	Start-up method		Soft start	Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller	Propeller
	Motor type		DC	DC	DC	DC
	Quantity		6	6	6	6
	Motor output	kW	(0.56+0.56)×3	(0.56+0.56)×3	(0.56+0.56)×3	(0.56+0.56)×3
	Airflow rate	m³/h	66000	65500	65000	64500
	Drive type		Direct	Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	9.3×3	9.3×2+11.96	9.3+11.96×2	11.96×3
Pipe connections ³	Liquid pipe	mm	Φ22.2			
	Gas pipe	mm	Φ44.5			
Sound pressure level ⁴		dB(A)	71			
Net dimensions (W×H×D)		mm	(1340×1760×825)×3			
Packed dimensions (W×H×D)		mm	(1410×1945×890)×3			
Net weight		kg	277×3	277×2+29	297×3	
Gross weight		kg	297×3	297×2+317	297×3	
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:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8 (Combinable series)

HP			32	40	48	56
Model name (Combination unit)			MV8-1008WV2RN1E(MA)	MV8-1120WV2RN1E(MA)	MV8-1340WV2RN1E(MA)	MV8-1600WV2RN1E(MA)
Combination type			8HP+8HP+8HP+8HP	10HP+10HP+10HP+10HP	12HP+12HP+12HP+12HP	14HP+14HP+14HP+14HP
Power supply			380-415V, 3N~, 50Hz	380-415V, 3N~, 50Hz	380-415V, 3N~, 50Hz	380-415V, 3N~, 50Hz
Cooling ¹	Capacity	kW	100.8	112	134	160
		kBtu/h	343.6	382	456.8	545.6
	Power input	kW	31	34.68	45.88	55.16
	EER		3.25	3.23	2.92	2.90
Heating ² (Rated)	Capacity	kW	100.8	112	134	160
		kBtu/h	343.6	382	456.8	545.6
	Power input	kW	25.6	29.2	37.6	44.4
	COP		3.94	3.84	3.56	3.60
Heating ² (Max)	Capacity	kW	108	126	150	180
		kBtu/h	368.4	429.6	511.6	614
	Power input	kW	28.04	34.36	45.2	52.68
	COP		3.85	3.67	3.32	3.42
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity			
	Maximum quantity		53	64		
Compressor	Type		DC inverter			
	Quantity		1×4			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1×4			
	Motor output	kW	(0.56)×4	(0.56)×4	(0.56)×4	(0.92)×4
	Airflow rate	m³/h	12600×4	12600×4	13500×4	15600×4
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	7×4	7×4	7×4	8×4
Pipe connections ³	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ38.1	Φ38.1	Φ41.3
Sound pressure level ⁴		dB(A)	64	64	67	69
Net dimensions (W×H×D)		mm	(940×1760×825)×4			
Packed dimensions (W×H×D)		mm	(1010×1945×890)×4			
Net weight		kg	195×4	195×4	195×4	218×4
Gross weight		kg	213×4	213×4	213×4	236×4
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8 (Combinable series)

HP			64	72	80	88
Model name (Combination unit)			MV8-1800WV2RN1E(MA)	MV8-2000WV2RN1E(MA)	MV8-2240WV2RN1E(MA)	MV8-2460WV2RN1E(MA)
Combination type			16HP+16HP+16HP+16HP	18HP+18HP+18HP+18HP	20HP+20HP+20HP+20HP	22HP+22HP+22HP+22HP
Power supply			380-415V, 3N~, 50Hz	380-415V, 3N~, 50Hz	380-415V, 3N~, 50Hz	380-415V, 3N~, 50Hz
Cooling ¹	Capacity	kW	180	200	224	246
		kBtu/h	614	682	764	838.8
	Power input	kW	71.44	71.44	86.48	101.24
	EER		2.52	2.80	2.59	2.43
Heating ² (Rated)	Capacity	kW	180	200	224	246
		kBtu/h	614	682	764	838.8
	Power input	kW	50	52.8	61.2	67.6
	COP		3.60	3.79	3.66	3.64
Heating ² (Max)	Capacity	kW	200	224	252	276
		kBtu/h	682	764	859.2	941.2
	Power input	kW	62.24	61.28	71.4	84.12
	COP		3.21	3.66	3.53	3.28
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity			
	Maximum quantity		64			
Compressor	Type		DC inverter			
	Quantity		1×4			
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1×4		2×4	
	Motor output	kW	(0.92)×4	(0.56×2)×4	(0.56×2)×4	(0.56×2)×4
	Airflow rate	m³/h	15600×4	22000×4	22000×4	21500×4
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8×4	9.3×4	9.3×4	11.96×4
Pipe connections ³	Liquid pipe	mm	Φ 19.1	Φ 22.2	Φ 22.2	Φ 25.4
	Gas pipe	mm	Φ 41.3	Φ 44.5	Φ 44.5	Φ 50.8
Sound pressure level ⁴		dB(A)	71	71	72	72
Net dimensions (W×H×D)		mm	(940×1760×825)×4		(1340×1760×825)×4	
Packed dimensions (W×H×D)		mm	(1010×1945×890)×4		(1410×1945×890)×4	
Net weight		kg	218×4	277×4	277×4	297×4
Gross weight		kg	236×4	297×4	297×4	317×4
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8 (Combinable series)

The following units are applicable only to fresh air scenarios, allowing combination of up to three units with a maximum capacity of 96HP.

HP			24	26	28
Model name (Combination unit)			MV8-670WV2RN1E(MA)	MV8-730WV2RN1E(MA)	MV8-7785WV2RN1E(MA)
Power supply			380-415V, 3N~, 50Hz		
Cooling ¹	Capacity	kW	67	73	78.5
		kBtu/h	228.5	248.9	267.7
	Power input	kW	30.7	34.8	32
	EER		2.18	2.1	2.45
Heating ² (Rated)	Capacity	kW	67	73	78.5
		kBtu/h	228.5	248.9	267.7
	Power input	kW	18.9	21.9	22.6
	COP		3.55	3.33	3.48
Heating ² (Max)	Capacity	kW	75	81.5	87.5
		kBtu/h	255.8	277.9	298.4
	Power input	kW	21.7	25.2	28
	COP		3.45	3.24	3.05
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		39	43	46
Compressor	Type		DC inverter		
	Quantity		1	2	
	Oil type		FV68H		
	Start-up method		Soft start		
Fan	Type		Propeller		
	Motor type		DC		
	Quantity		2		
	Motor output	kW	0.56×2	0.92×2	0.92×2
	Airflow rate	m³/h	21500	29000	28000
	Drive type		Direct		
Refrigerant	Type		R410A		
	Factory charge	kg	11.96	11.96	11.96
Pipe connections ³	Liquid pipe	mm	Φ 15.9	Φ 22.2	Φ 22.2
	Gas pipe	mm	Φ 28.6	Φ 31.8	Φ 34.9
Sound pressure level ⁴		dB(A)	67	68	68
Sound power level ⁴		dB(A)	92	93	93
Net dimensions (W×H×D)		mm	1340×1760×825	1880×1760×825	
Packed dimensions (W×H×D)		mm	1410×1945×890	1935×1945×890	
Net weight		kg	297	373	410
Gross weight		kg	317	398	435
Ambient temp.	Cooling	°C	-15 to 55		
operation range	Heating	°C	-30 to 30		

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8 (Combinable series)

The following units are applicable only to fresh air scenarios, allowing combination of up to three units with a maximum capacity of 96HP.

HP			30	32
Model name (Combination unit)			MV8-850WV2RN1E(MA)	MV8-900WV2RN1E(MA)
Power supply			380-415V, 3N~, 50Hz	
Cooling ¹	Capacity	kW	85	90
		kBtu/h	289.9	306.9
	Power input	kW	37	41.9
	EER		2.3	2.15
Heating ² (Rated)	Capacity	kW	85	90
		kBtu/h	289.9	306.9
	Power input	kW	24.6	27.3
Heating ² (Max)	Capacity	kW	95	100
		kBtu/h	324	341
	Power input	kW	28.2	31.1
	COP		3.37	3.22
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	
	Maximum quantity		50	53
Compressor	Type		DC inverter	
	Quantity		2	
	Oil type		FV68H	
	Start-up method		Soft start	
Fan	Type		Propeller	
	Motor type		DC	
	Quantity		2	
	Motor output	kW	0.92×2	
	Airflow rate	m³/h	28000	
	Drive type		Direct	
Refrigerant	Type		R410A	
	Factory charge	kg	11.96	
Pipe connections ³	Liquid pipe	mm	Φ22.2	Φ22.2
	Gas pipe	mm	Φ34.9	Φ34.9
Sound pressure level ⁴		dB(A)	68	68
Sound power level ⁴		dB(A)	93	93
Net dimensions (W×H×D)		mm	1880×1760×825	
Packed dimensions (W×H×D)		mm	1935×1945×890	
Net weight		kg	410	
Gross weight		kg	435	
Ambient temp.	Cooling	°C	-15 to 55	
operation range	Heating	°C	-30 to 30	

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference; connect to Four-Way Cassette indoor unit.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

