B-V8MNEU202208

SMART IN ONE

Midea Building Technologies Division

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Quality Assurance ISO 9001 · Environmental Management ISO 14001 · Occupational Health and Safety Management ISO 45001

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

Midea

V8 MINI VRF

8-18kW

DISCOVER

RELIABLE COMFORT

R32 Eco Friendly

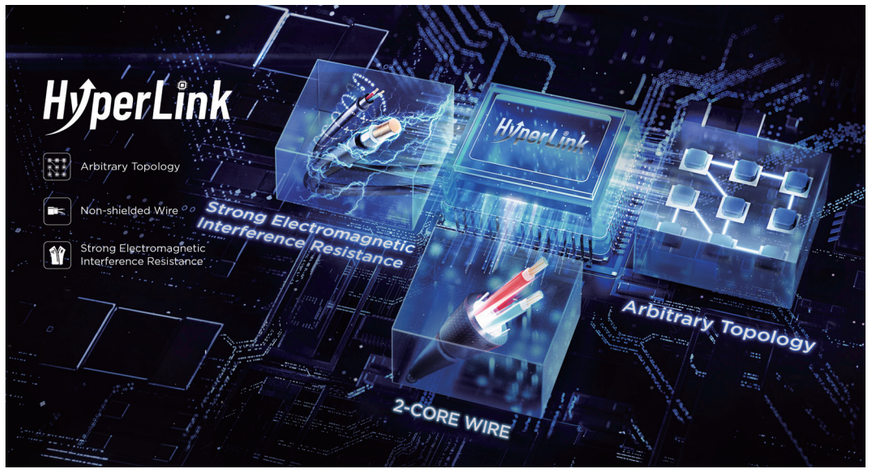
Lower GWP 675

Zero impact on ozone layer

Less carb on emission

HYPERLINK

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



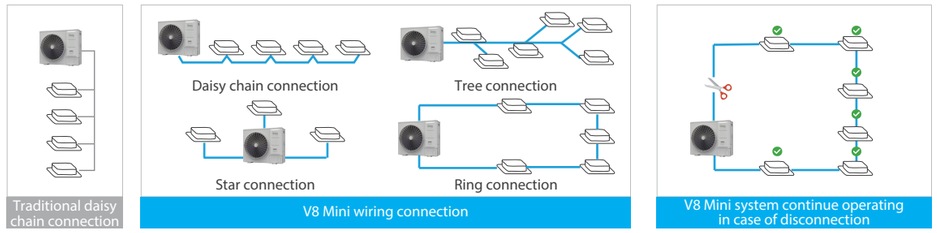
Benefits

- 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.

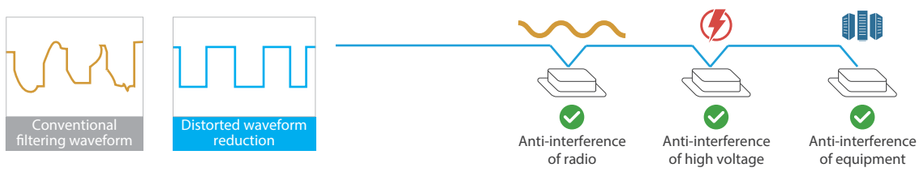
Support Any Topology Communication

In addition to the traditional daisy chain connection, the communication wire supports tree connection, star connection, ring connection and so on. The wring 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.



M-HOLMES

M-Holmes technology reduces installation space constraints and increases the safety of the R32 V8 Mini.

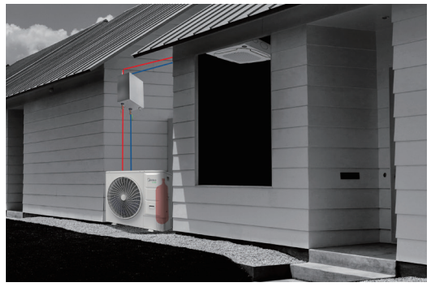
Benefits

- Safety
- Timely reminders
- Refrigerant recovery

With the optional M-Holmes technology (refrigerant shut-off device, alarm device and refrigerant leak sensor), timely detection, alarm and alert of refrigerant leaks can be achieved, making the entire operating system safer. It is also possible to reduce room size restrictions and adapt to more installation scenarios.

Refrigerant Shut-off Device

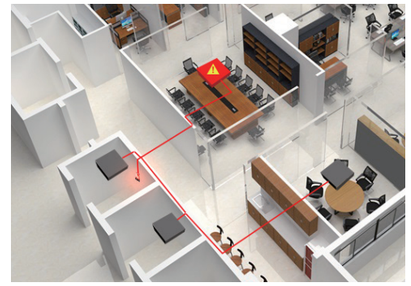
The shut-off device is installed on the outdoor unit side, which can automatically recover the refrigerant to the outdoor unit after the refrigerant leakage and keep the refrigerant safely.



*The shut-off device must be purchased from Midea

Alarm Device

When a refrigerant leak is detected in the system, the alarm device will alert you in time.



Refrigerant Leakage Sensor

The refrigerant leak sensor is installed on the indoor unit side to detect refrigerant leaks and can automatically activate alarm measures.

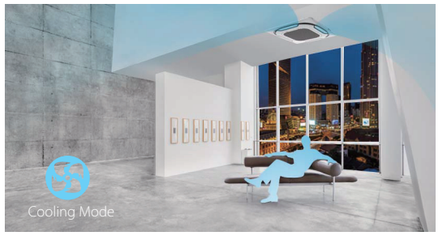
*The refrigerant leak sensor must be installed at 1.5m above the floor.

Cloud-based Remote Alerts

Midea V8 Mini VR transmits system operation data to the cloud in real time through the data cloud gateway, and alerts users in time by SMS or email if there is refrigerant leakage, minimizing hidden dangers.

META 2.0

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


Benefits

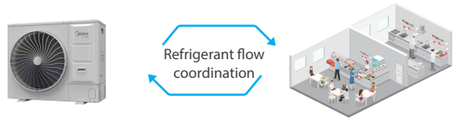
- Energy saving
- Enhanced comfort
- Fast cooling/heating

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.

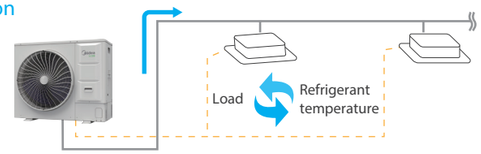


Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.

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.

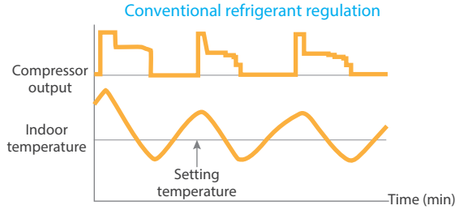
Variable Indoor Airflow

STEP 3: Adaptive indoor airflow and refrigerant flow

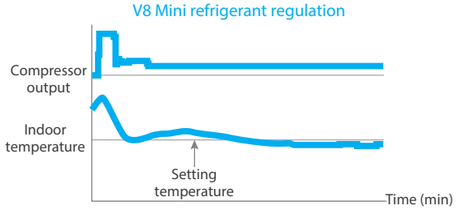
Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise temperature control.

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

Conventional refrigerant regulation

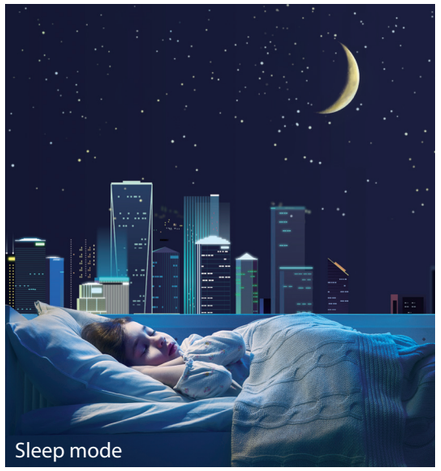


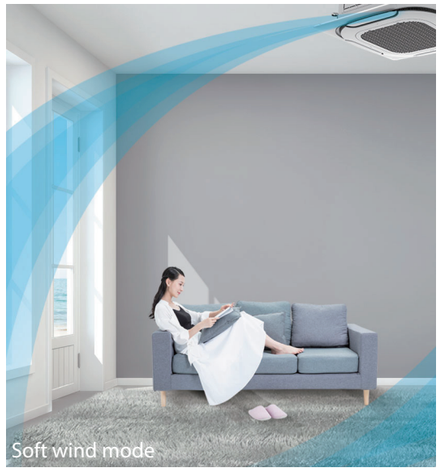
V8 Mini refrigerant regulation



ZEN AIR 2.0

Further upgraded ZEN AIR technology to maximize COMFORT.





Benefits

- Quiet
- Enhanced comfort
- Healthy

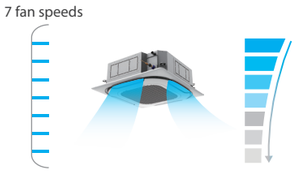
0.5°C temperature adjustment, 7 fan speeds selection, sleep mode, silent mode, windless technology, high efficiency filter, a variety of sterilization device and other advanced technologies used in V8 Mini Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

360° Airflow

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

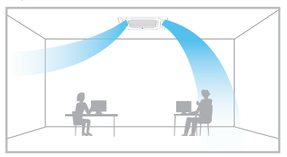
7 Fan Speeds

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



Individual Louver Control

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



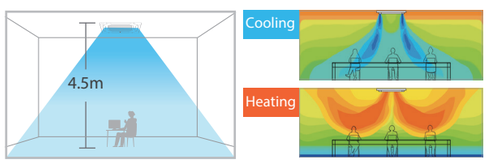
Sleep Mode

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

*Temperature on left is for reference.

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.



Heat Exchanger Self-cleaning

Wash the dirt on the heat exchanger through freezing frost, and then high temperature sterilization.

Frosting
Frost makes the surface of heat exchanger dirt stripping

Defrosting
Water flow flushes dirt from heat exchanger

Drying
55°C high temperature drying water, effective sterilization

DOCTOR M 2.0

Further upgraded DOCTOR M technology to maximize EASY SERVICE.

Benefits

- Easy maintenance
- Fast maintenance
- Low maintenance cost

As many as 13 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.

Bluetooth after-sales kit

Real-time Monitoring of Operating Parameters

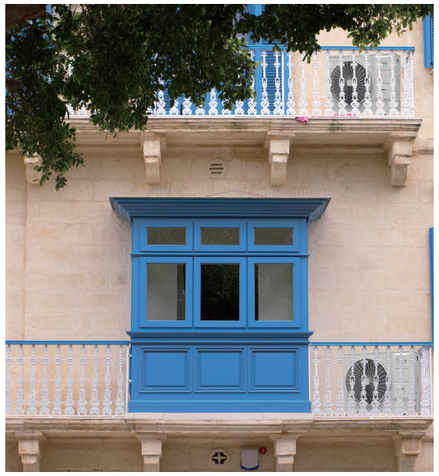
The V8 Mini Series VRF synchronizes and stores all the unit parameters to the cloud through the data cloud gateway, including the running status, locking status, dirty blocking rate, all spot inspection parameters and so on. Users can query real-time and historical parameters on computers, tablets and mobile phones at any time.

Cloud-based Big Data Analytics

Midea V8 Mini 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.

FELXIBLE INSTALLTION

V8 Mini is highly space saving, slim and compact designed outdoor units, the total pipe length reaches 300m, these ensure FLEXIBLE INSTALLTION.



Benefits

- Space saving
- Flexible installation
- High ESP

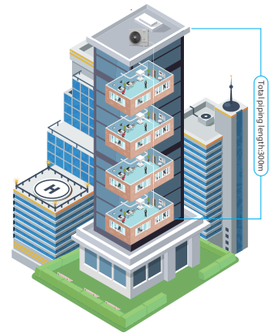
V8 Mini has 6 models from 8kW to 18 kW with compact size which is perfect for commercial and residential applications: small offices, villas, apartments, etc. 35Pa static pressure is standard, which facilitates installation of the unit on balconies with ducting.

Easy Transportation

V8 Mini can be transported by elevator which makes installation dramatically easy, and effectively reduces time and labor thanks to the small size.

Long Piping Capability

The total pipe length reaches 300m, the V8 Mini series offers unparalleled flexibility for installation.

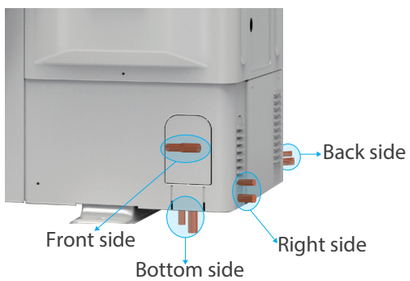


High External Static Pressure

The 35 Pa static pressure increases flexibility in the choice of the unit’ s installation point. Strong heat dissipation can be maintained even when the outdoor unit is covered.

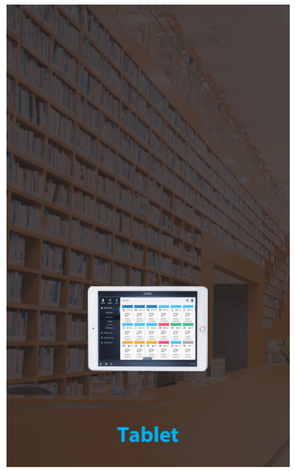
Four-way Piping Connection

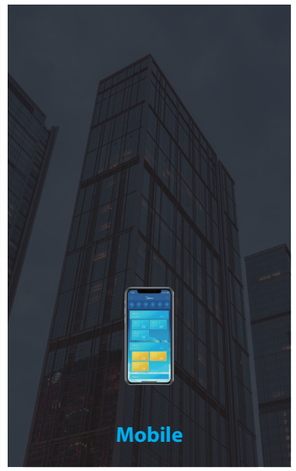
A four-direction space is available for connecting pipes and wiring in various installation sites.



FREE CONTROL

Intelligent control brings a new experience.





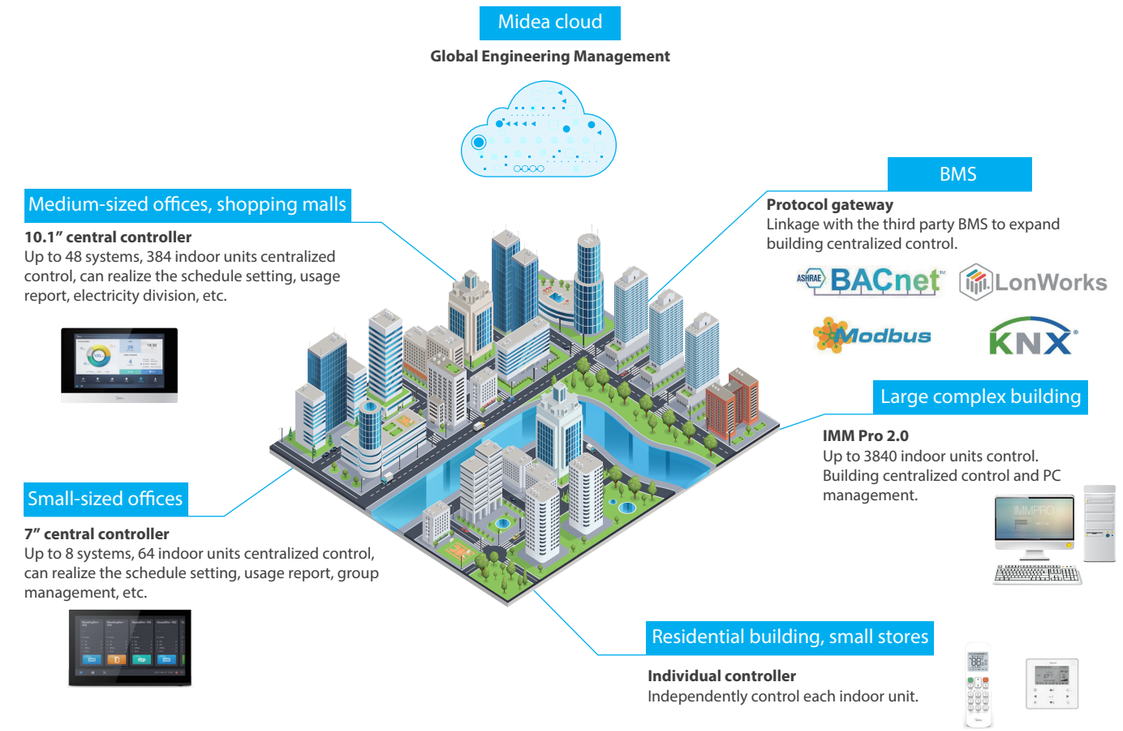
Benefits

Individual control

Central control

Cloud control

V8 Mini Series VRF can provide different control solutions for different application scenarios. From small homes and convenience stores to large shopping malls and complex buildings, V8 Mini Series VRF can provide the most appropriate control solutions to achieve centralized and customized management.



R-32 REFRIGERANT

R-32 is a kind of refrigerant that does not destroy the ozone layer and does not produce carb, which is more friendly to the environment.

V8 MINI UNIT LINEUP

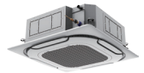
Outdoor Unit

kW	8-18	kW	12-18
220-240V~ 50Hz		380-415V 3N~ 50Hz	

Note: V8 Mini VRF outdoor unit will be available by the end of July 2022.

Indoor Unit

Type	One-way Cassette	Two-way Cassette	Compact Four-way Cassette
Indoor Unit	 1.8-7.1kW, 7 models	 2.2-7.1kW, 6 models	 1.5-6.3kW, 7 models

Type	Four-way Cassette	Arc Duct	Medium Static Pressure Duct
Indoor Unit	 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
Indoor Unit	 7.1-16kW, 6 models	 1.5-9kW, 9 models	 3.6-14kW, 8 models

Type	Fresh Air Processing Unit
Indoor Unit	 11.2-14kW, 3 models

Note: The different series of indoor units are available in stages.
Pictures are for reference only, please refer to the actual product.
R32 V8 Mini can only available with V8 indoor units. The indoor unit must be installed at a height of 1.8m or more.

Specification

V8 Mini 220-240V~ 50Hz

Model			MV8M-80WV2N8	MV8M-100WV2N8	MV8M-120WV2N8
Power supply		V/N/Hz		220-240/1/50	
Cooling[1]	Capacity	kW	7.2	9.0	12.3
		kBtu/h	24	30	41
	Power input	kW	1.95	2.77	3.73
	EER		3.70	3.25	3.30
	SEER		5.80	5.70	7.80
Heating (Rated)[2]	Capacity	kW	7.2	9.0	12.3
		kBtu/h	24	30	41
	Power input	kW	1.80	2.31	2.86
	COP		4.00	3.90	4.30
	SCOP		3.80	3.80	4.90
Heating (Max)[2]	Capacity	kW	9.0	10.8	14.0
		kBtu/h	30	36	47
	Power input	kW	2.50	3.18	3.59
	COP		3.60	3.40	3.90
Connected indoor unit	Total capacity		50%~160% of ODU capacity		
	Maximum quantity		5	6	8
Compressor	Type		DC inverter		
	Quantity		1		
Fan motor	Type		DC		
	Quantity		1		
	Airflow rate	m^3/h	5200	5200	5000
	Static pressure	Pa	0-35 (standard)		
Refrigerant	Type		R32		
	Factory charge	kg	2	2	2.85
Pipe connections[3]	Liquid pipe	mm	15.9	15.9	15.9
	Gas pipe	mm	9.52	9.52	9.52
Sound pressure level[4]		dB(A)	53	53	55
Sound power level[4]		dB(A)	68	69	70
Net dimensions (W×H×D)		mm	1038×864×409	1038×864×409	1038×864×409
Packed dimensions (W×H×D)		mm	1120×980×560	1120×980×560	1120×980×560
Net weight		kg	77	77	94
Gross weight		kg	88	88	105
Ambient temp. operation range	Cooling	°C(DB)	-15~52	-15~52	-15~52
	Heating	°C(DB)	-20~30	-20~30	-20~30

Model			MV8M-140WV2N8	MV8M-160WV2N8	MV8M-180WV2N8
Power supply		V/N/Hz		220-240/1/50	
Cooling[1]	Capacity	kW	14.0	15.5	17.5
		kBtu/h	47	52	59
	Power input	kW	4.67	5.34	6.46
	EER		3.00	2.90	2.71
	SEER		7.40	7.35	7.10
Heating (Rated)[2]	Capacity	kW	14.0	15.5	17.5
		kBtu/h	47	52	59
	Power input	kW	3.29	3.73	4.49
	COP		4.25	4.15	3.90
	SCOP		4.80	4.80	4.80
Heating (Max)[2]	Capacity	kW	16.0	17.5	19.5
		kBtu/h	54	59	66
	Power input	kW	4.21	4.73	5.57
	COP		3.80	3.70	3.50
Connected indoor unit	Total capacity		50%~160% of ODU capacity		
	Maximum quantity		10	11	12
Compressor	Type		DC inverter		
	Quantity		1		
Fan motor	Type		DC		
	Quantity		1		
	Airflow rate	m^3/h	5000	5000	5500
	Static pressure	Pa	0-35 (standard)		
Refrigerant	Type		R32		
	Factory charge	kg	2.85	2.85	2.85
Pipe connections[3]	Liquid pipe	mm	15.9	15.9	19.1
	Gas pipe	mm	9.52	9.52	9.52
Sound pressure level[4]		dB(A)	56	56	58
Sound power level[4]		dB(A)	71	72	73
Net dimensions (W×H×D)		mm	1038×864×409	1038×864×409	1038×864×409
Packed dimensions (W×H×D)		mm	1120×980×560	1120×980×560	1120×980×560
Net weight		kg	94	94	94
Gross weight		kg	105	105	105
Ambient temp. operation range	Cooling	°C(DB)	-15~52	-15~52	-15~52
	Heating	°C(DB)	-20~30	-20~30	-20~30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
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 1m above the floor in a semi-anechoic chamber.

Specification

V8 Mini 380-415V 3N~ 50Hz

Model			MV8M-120WV2RN8	MV8M-140WV2RN8
Power supply		V/N/Hz	380-415/3/50	
Cooling[1]	Capacity	kW	12.3	14.0
		kBtu/h	41	47
	Power input	kW	3.73	4.67
	EER		3.30	3.00
	SEER		7.80	7.40
Heating (Rated)[2]	Capacity	kW	12.3	14.0
		kBtu/h	41	47
	Power input	kW	2.86	3.29
	COP		4.30	4.25
	SCOP		4.90	4.80
Heating (Max)[2]	Capacity	kW	14.0	16.0
		kBtu/h	47	54
	Power input	kW	3.59	4.21
	COP		3.90	3.80
Connected indoor unit	Total capacity		50%~160% of ODU capacity	
	Maximum quantity		8	10
Compressor	Type		DC inverter	
	Quantity		1	
Fan motor	Type		DC	
	Quantity		1	
	Airflow rate	m^3/h	5000	5000
	Static pressure	Pa	0-35 (standard)	
Refrigerant	Type		R32	
	Factory charge	kg	2.85	2.85
Pipe connections[3]	Liquid pipe	mm	15.9	15.9
	Gas pipe	mm	9.52	9.52
Sound pressure level[4]		dB(A)	55	56
Sound power level[4]		dB(A)	70	71
Net dimensions (W×H×D)		mm	1038×864×409	1038×864×409
Packed dimensions (W×H×D)		mm	1120×980×560	1120×980×560
Net weight		kg	110	110
Gross weight		kg	121	121
Ambient temp. operation range	Cooling	°C(DB)	-15~52	-15~52
	Heating	°C(DB)	-20~30	-20~30

Model			MV8M-160WV2RN8	MV8M-180WV2RN8
Power supply		V/N/Hz	380-415/3/50	
Cooling[1]	Capacity	kW	15.5	17.5
		kBtu/h	52	59
	Power input	kW	5.34	6.46
	EER		2.90	2.71
	SEER		7.35	7.10
Heating (Rated)[2]	Capacity	kW	15.5	17.5
		kBtu/h	52	59
	Power input	kW	3.73	4.49
	COP		4.15	3.90
	SCOP		4.80	4.80
Heating (Max)[2]	Capacity	kW	17.5	19.5
		kBtu/h	59	66
	Power input	kW	4.73	5.57
	COP		3.70	3.50
Connected indoor unit	Total capacity		50%~160% of ODU capacity	
	Maximum quantity		11	12
Compressor	Type		DC inverter	
	Quantity		1	
Fan motor	Type		DC	
	Quantity		1	
	Airflow rate	m^3/h	5000	5500
	Static pressure	Pa	0-35 (standard)	
Refrigerant	Type		R32	
	Factory charge	kg	2.85	2.85
Pipe connections[3]	Liquid pipe	mm	15.9	19.1
	Gas pipe	mm	9.52	9.52
Sound pressure level[4]		dB(A)	56	58
Sound power level[4]		dB(A)	72	73
Net dimensions (W×H×D)		mm	1038×864×409	1038×864×409
Packed dimensions (W×H×D)		mm	1120×980×560	1120×980×560
Net weight		kg	110	110
Gross weight		kg	121	121
Ambient temp. operation range	Cooling	°C(DB)	-15~52	-15~52
	Heating	°C(DB)	-20~30	-20~30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
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 1m above the floor in a semi-anechoic chamber.