



Midea Building Technologies Division
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VRF
VC Max
8-90HP



HYPERLINK

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



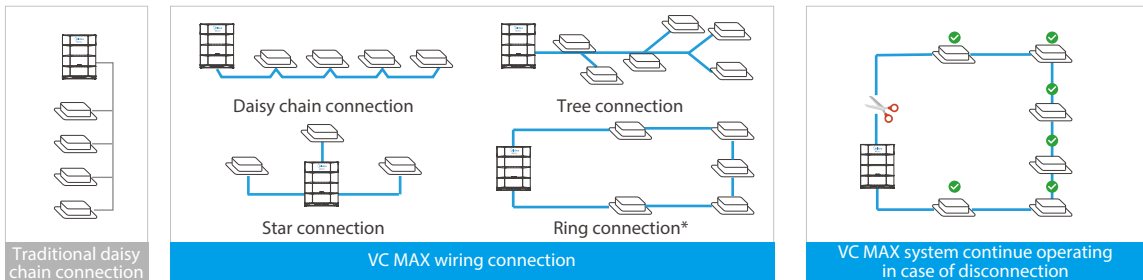
Benefits

- 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.

Support Any Topology Communication

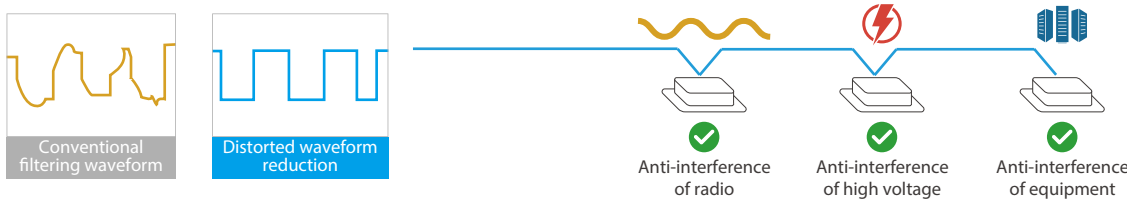
In addition to the traditional daisy chain connection, multiple wiring topologies are supported including serial, tree and ring connections. This flexibility reduces installation costs while eliminating potential wiring errors.



*In ring connection, the communication wire must be connected polarized (M1 port to M1 port and M2 port to M2 port).

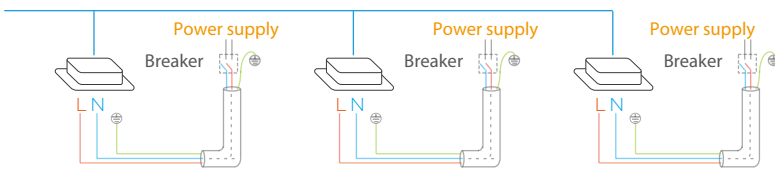
Super Anti-interference Capability

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



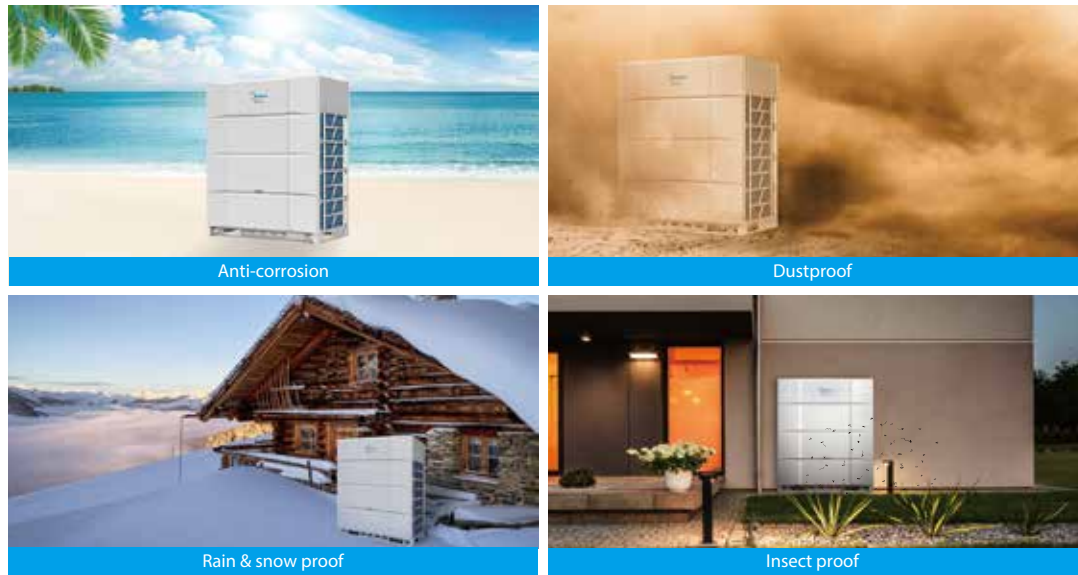
Flexible Power Supply for Indoor Units

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

IP (INGRESS PROTECTION)	
IP 55	Dustproof grade code Prevent entry foreign objects and dust
	Waterproof grade code Prevent water spray in all directions

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

All Microchannel 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.



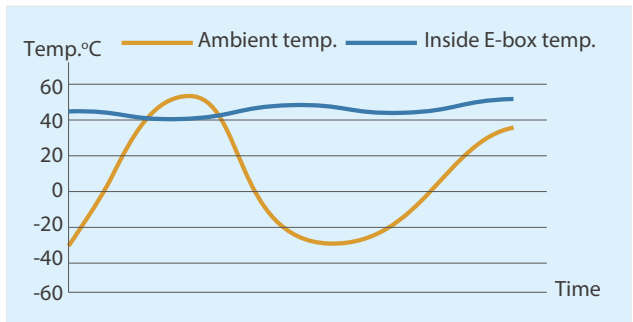
Built-in Circulating Fan

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

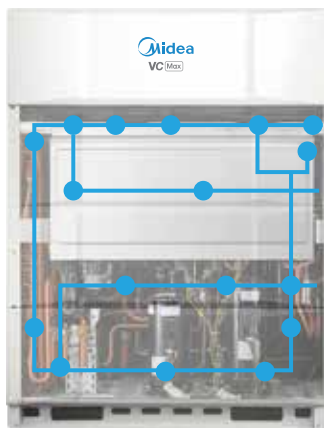
The status of the refrigerant is known anywhere throughout the process, ensuring high **RELIABILITY** and **COMFORT**.



Up to 17 strategically-positioned sensors constantly monitor every aspect of the refrigerant pipeline, ensuring reliability and stable operation. Additionally, virtual sensor technology serves as a backup in case of sensor failure, ensuring uninterrupted system operation.

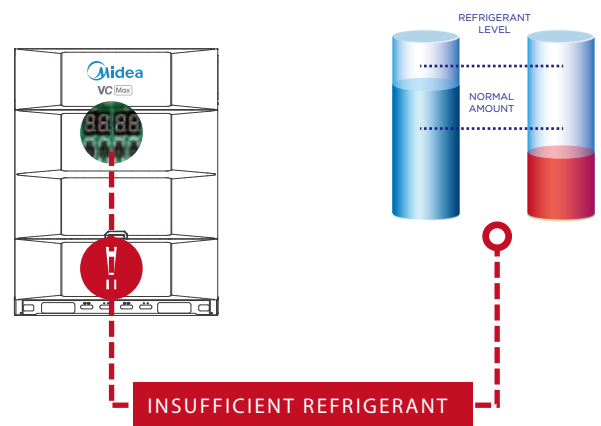
Comprehensive Sensor Grid

The VC Max Series VRF incorporates advanced refrigerant monitoring technology, equipped with 17 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.



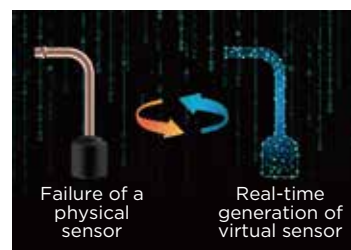
Refrigerant Volume Monitoring

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.



Benefits

- High reliability
- Stable operation
- Enhanced comfort

META 2.0

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



Benefits

- Energy saving
- Enhanced comfort
- Fast cooling

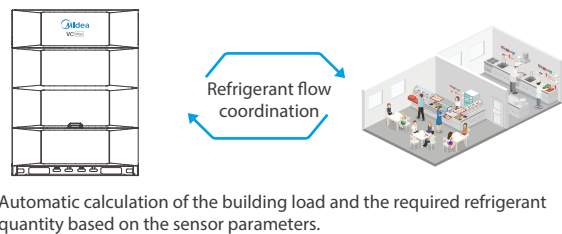
META 2.0 is our proprietary triple-variable control technology that leverages a professional operation and maintenance algorithm that increases system efficiencies by more than 28%.



Variable Refrigerant Flow

STEP 1: Intelligent space recognition

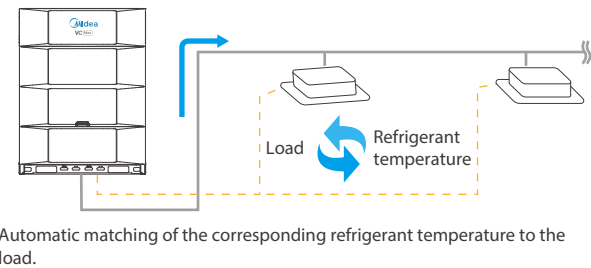
Sensors closely monitor refrigerant volume and circulation to ensure optimal operating levels are consistently maintained.



Variable Refrigerant Temperature

STEP 2: Automatic refrigerant temperature modulation

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



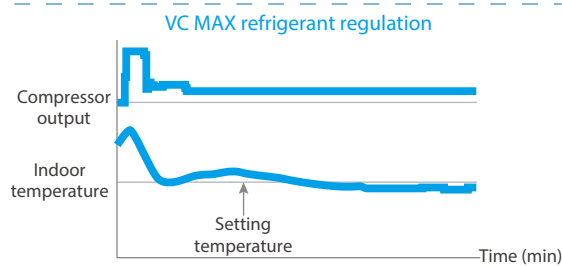
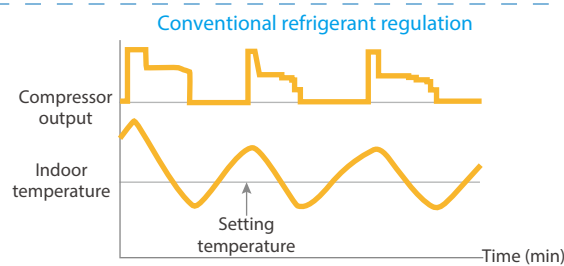
Variable Indoor Airflow

STEP 3: Adaptive indoor airflow and refrigerant flow

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



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



ZEN AIR 2.0

A revolutionary indoor air solution focused on indoor air combined with supreme **COMFORT**.



Benefits



Quiet



Enhanced comfort

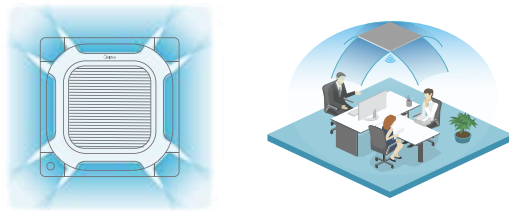


Healthy

ZEN Air 2.0 is all about comfort and better indoor living with multiple, precise adjustments for quiet operation, noise reduction, air filtration, sterilization, and other technologies aimed at promoting a healthier indoor environment.

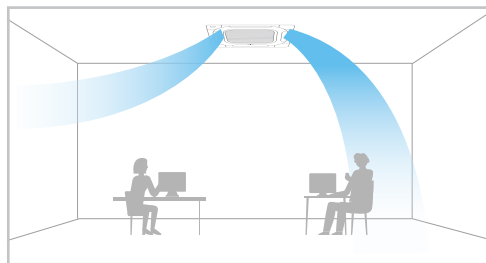
360° Airflow

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



Individual Louver Control

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

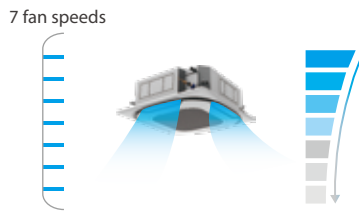


Extended Distance Air Delivery*

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.

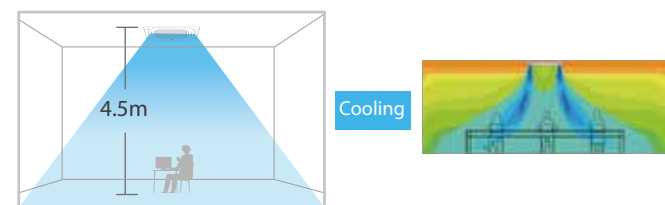
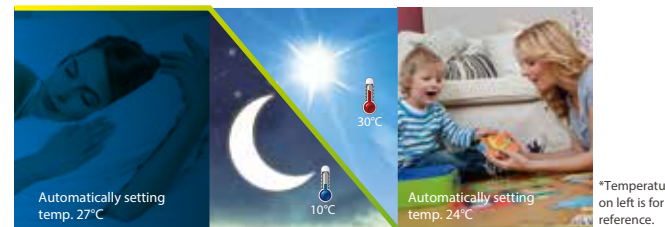
7 Fan Speeds

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.



*Available as a customized option

DOCTOR M 2.0

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



Benefits



Easy maintenance



Fast maintenance



Low maintenance cost

By harnessing a cloud-based platform powered by big data and artificial intelligence, the VC Max 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 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.

*Available as a customized option



Cloud Data Synchronization*

The VC Max 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 VC Max 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.




FREE CONTROL


Intelligent control brings a new experience.



PC



Tablet

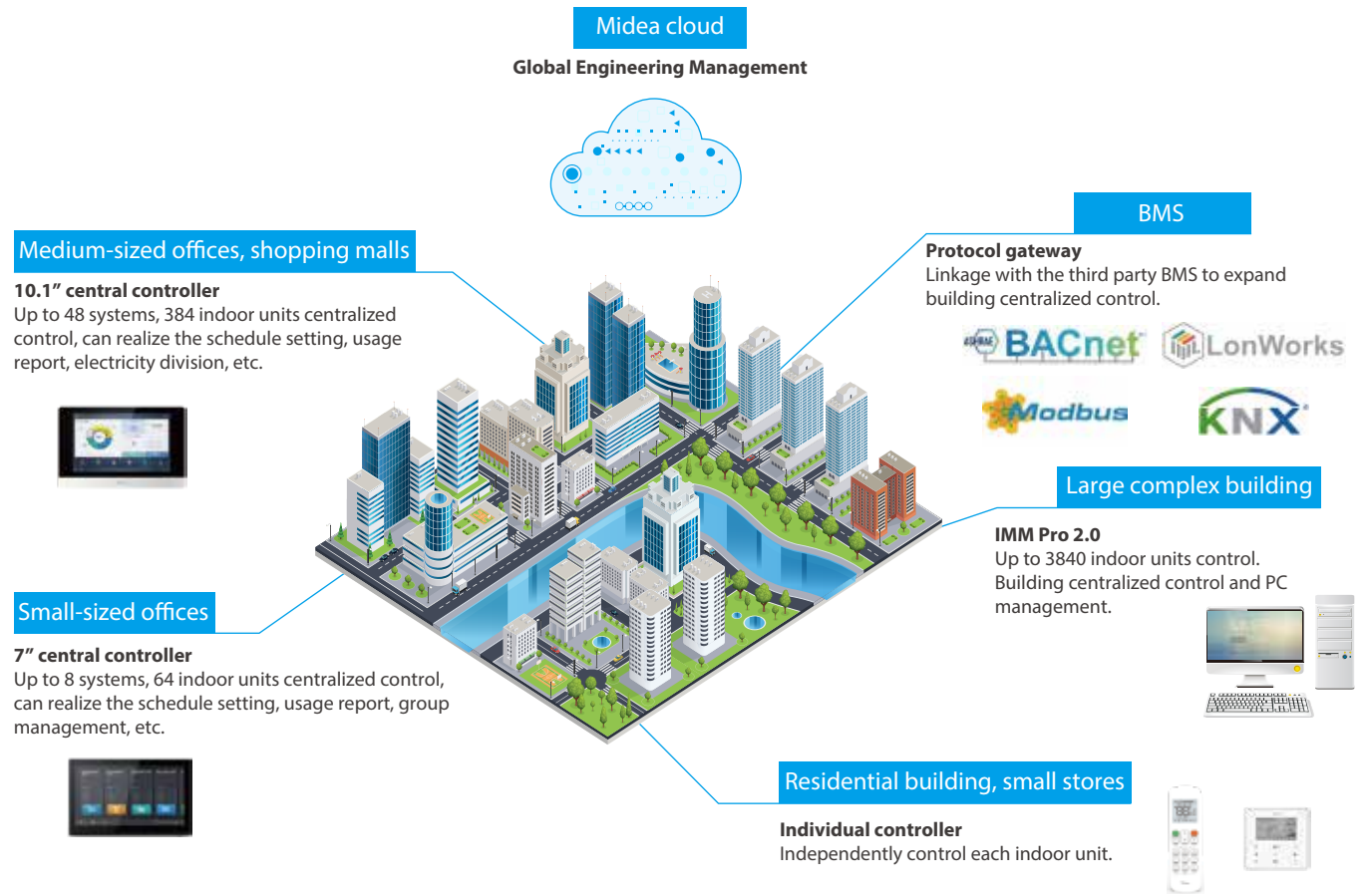


Mobile

Benefits

- Individual control
- Central control
- Cloud control

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



VC MAX UNIT LINEUP

Outdoor Unit

HP	8-16	18-30
Single Unit		
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	 2.8-18kW, 12models	 1.5-11.2kW, 10 models	 1.5-16kW, 12 models

Type	High Static Pressure Duct	Wall Mounted	Ceiling & Floor	Floor Standing	Fresh Air Processing Unit
Indoor Unit	 5.6-56kW, 16 models	 1.5-8kW, 8 models	 3.6-14kW, 10 models	 2.2-8.0kW, 7 models	 9-56kW, 13 models

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

Specification

Model			MVC-M224WV2WN1	MVC-M280WV2WN1	MVC-M335WV2WN1
Power supply		V/Ph/Hz	220V 3~ 60Hz	220V 3~ 60Hz	220V 3~ 60Hz
Cooling ¹	Capacity	kW	22.4	28.0	33.5
		kBtu/h	76.4	95.5	114.2
	Power input	kW	4.78	6.68	8.70
	EER		4.69	4.19	3.85
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		13	16	19
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	7.4	7.4	7.4
Pipe connections ²	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4
Sound pressure level ³		dB(A)	57	58	60
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	190	190	190
Gross weight		kg	205	205	205
Ambient temp. operation range	Cooling （DB）	℃	-15~55	-15~55	-15~55

Model			MVC-M400WV2WN1	MVC-M450WV2WN1	MVC-M500WV2WN1
Power supply		V/Ph/Hz	220V 3~ 60Hz	220V 3~ 60Hz	220V 3~ 60Hz
Cooling ¹	Capacity	kW	40.0	45.0	50.0
		kBtu/h	136.4	153.5	170.5
	Power input	kW	9.80	11.72	13.19
	EER		4.08	3.84	3.79
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		23	26	29
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4	8.4	12.8
Pipe connections ²	Liquid pipe	mm	Φ15.9	Φ15.9	Φ22.2
	Gas pipe	mm	Φ28.6	Φ28.6	Φ31.8
Sound pressure level ³		dB(A)	60	61	62
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1410×1945×890
Net weight		kg	200	200	315
Gross weight		kg	215	215	335
Ambient temp. operation range	Cooling （DB）	℃	-15~55	-15~55	-15~55

Notes:
1. Indoor air temperature 27°C DB, 19°C WB;outdoor air temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level di erence.
2. Diameters given are those of the unit's stop valve.
3. Sound pressure level is measured at aposition 1m in front of the unit and 1.3m above the oor in a semi-anechoicchamber.
*Product speci cations change from time to time as product improvements and developments are released and may vary from those in this document.

Specification

Model			MVC-M560WV2WN1	MVC-M615WV2WN1	MVC-M670WV2WN1
Power supply		V/Ph/Hz	220V 3~ 60Hz	220V 3~ 60Hz	220V 3~ 60Hz
Cooling ¹	Capacity	kW	56.0	61.5	67.0
		kBtu/h	191.0	209.7	228.5
	Power input	kW	15.14	17.08	19.14
	EER		3.70	3.60	3.50
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		33	36	39
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	12.8	12.8	12.8
Pipe connections ²	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8
Sound pressure level ³		dB(A)	63	63	64
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1410×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	315	315	315
Gross weight		kg	335	335	335
Ambient temp. operation range	Cooling （DB）	℃	-15~55	-15~55	-15~55

Model			MVC-M730WV2WN1	MVC-M785WV2WN1	MVC-M850WV2WN1
Power supply		V/Ph/Hz	220V 3~ 60Hz	220V 3~ 60Hz	220V 3~ 60Hz
Cooling ¹	Capacity	kW	73.0	78.5	85.0
		kBtu/h	248.9	267.7	289.9
	Power input	kW	18.91	21.81	25.84
	EER		3.86	3.60	3.29
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		43	46	50
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4	15.4	15.4
Pipe connections ²	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8
Sound pressure level ³		dB(A)	64	64	64
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1410×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	330	330	330
Gross weight		kg	350	350	350
Ambient temp. operation range	Cooling （DB）	℃	-15~55	-15~55	-15~55

Notes:
1. Indoor air temperature 27°C DB, 19°C WB;outdoor air temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level di erence.
2. Diameters given are those of the unit's stop valve.
3. Sound pressure level is measured at aposition 1m in front of the unit and 1.3m above the oor in a semi-anechoicchamber.
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