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Note: Data shown here in the rated test condition. As a continuous policy of product improvement, the design and specification are subjected to change without prior notice. T&C apply.  
All the specification as per IS 1391 (part-2): 1992 Room Airconditioner, Data rounded off as per IS: 1960 rules of rounding off numerical value.

CMI-VRF-032025-V1



# 8<sup>th</sup> Gen VRF

# Midea MBT

Midea MBT (Midea Building Technologies) is a key division of the Midea Group, a leading provider of comprehensive solutions for intelligent buildings. It specializes in energy sources, elevators, control systems, and heating, ventilation & air conditioning. Midea MBT continues the tradition of innovation upon which it was founded and has emerged as a global leader in the HVAC and building management industry. A strong drive for advancement has resulted in an extensive R&D department that has placed Midea MBT at the forefront of the competition. Through independent projects and joint-cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide.



#277 ranked in the 2024



3 businesses make up the core of Midea intelligent building solutions.



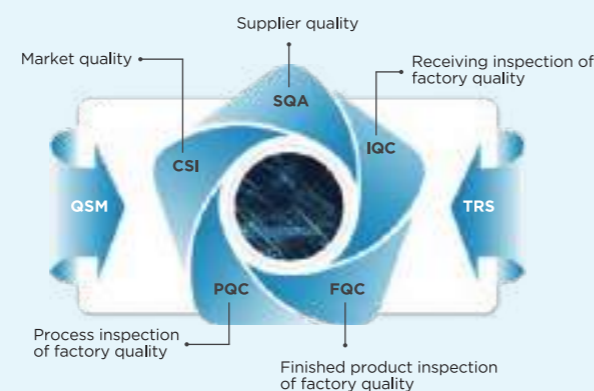
4 production bases can achieve fast delivery.



Over 100 testing labs cover a wide range of real application scenarios.



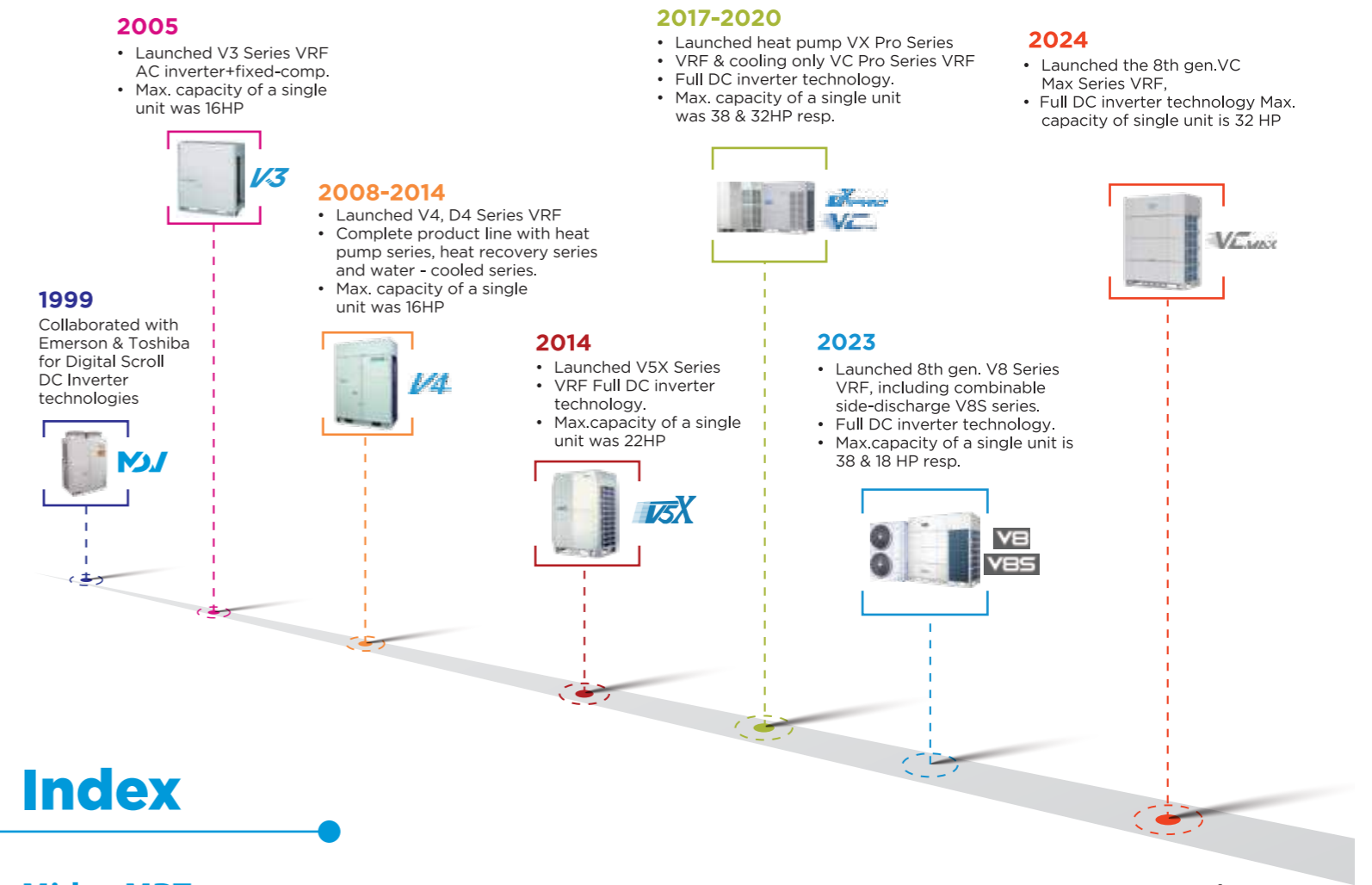
All products can be visualized and digitalized throughout entire process.



# Midea VRF History

## VRF Annual Production

5,00,000 units (ODU) | 33,00,000 units (IDU) | Operating in 194 countries



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# Outdoor Unit Line-up

	Model/ Series	Single Unit	Module
Heating pump	V8X	8-20HP, 22-28HP, 30-38HP	40-114HP
	V8S	8-14HP, 16-18HP	20-72HP
	AtomB	8kW, 10,12,14,15.5kW	
Cooling	VC Max	8-22HP, 24-32HP	34-96HP
	VC-i	20,22.4,26,28kW	

# Innovative Technologies

ETA 2.0

ENair 2.0

DOCTOR m. 2.0

# HyperLink New & Unique

Midea's original communication bus chip greatly simplifies installation and saves installation costs.



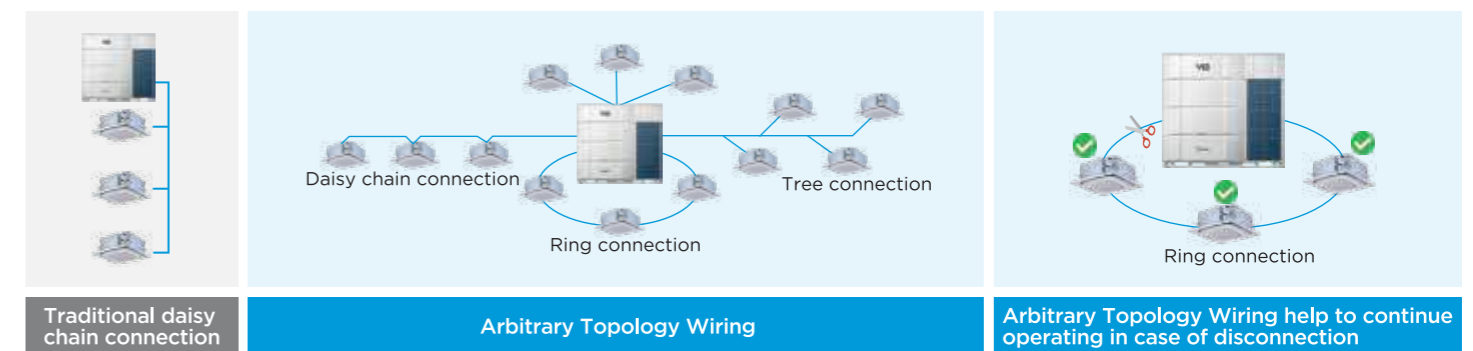
### Benefits

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

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

### Arbitrary Topology Communication

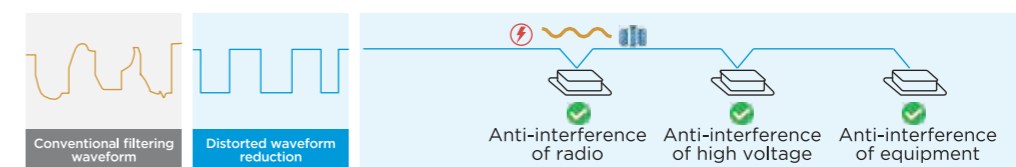
In addition to the traditional daisy chain connection, the communication wire supports tree connection, star connection, ring connection and so on. The wiring is flexible, which greatly reduces installation costs and has no possibility of wrong connection on site.



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

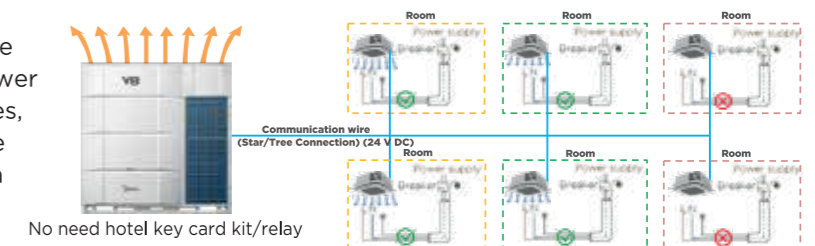
### Super Anti-interference Capability

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




### Flexible Power Supply for Indoor Units

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





# Shield Box

IP55 fully enclosed electric control box provides all-round protection for internal electronic components, greatly improving system **RELIABILITY**.



### Benefits

-  **High reliability**
-  **Stable operation**

■ IP (INGRESS PROTECTION)

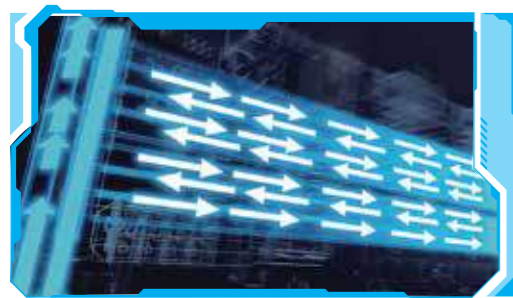
**IP** **Dustproof grade code**  
Prevent entry foreign objects and dust

**55** **Waterproof grade code**  
Prevent water spray in all directions

Fully enclosed electronic components are isolated from the external environment to protect against corrosion, sand, humidity, snowstorms and other harsh conditions, and prevent small animals and insects from entering the chamber. This protects internal electronic devices and improves the overall environmental tolerance.

## All Microchannel Refrigerant Cooling

All electronic components including inverter module, filter module and power module are cooled by specially designed microchannel refrigerant to ensure that the electronic components work in the best temperature range.



## Built-in Circulating Fan

The built-in circulating fan accelerates the air flow inside the chamber, and the heat exchange is more sufficient to ensure the consistent ambient temperature inside the chamber.



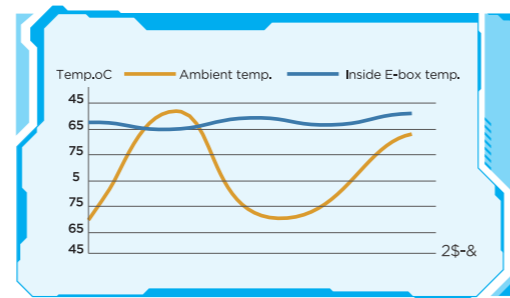
## PTC Heater

The unique PTC heater, with precise temperature control sensor, can still ensure that the temperature inside the chamber is within the normal operating temperature range of electronic devices even in the low-temperature environment of -30°C



## 5 High Precision Temperature Sensors

5 high precision temperature sensors are used to accurately monitor the operation state of electronic control under various conditions to ensure that the internal temperature of the chamber is always kept within a stable range.



# SuperSense

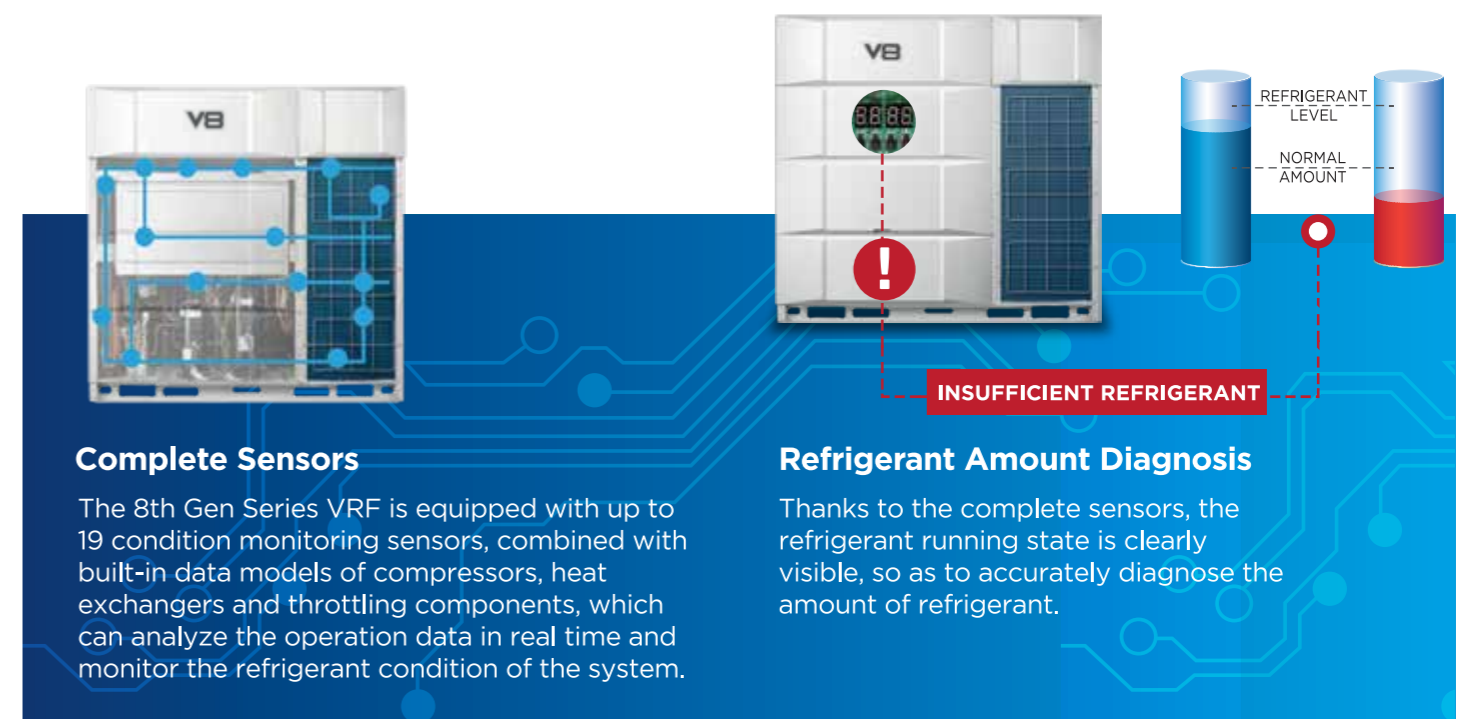
The status of the refrigerant can be determined throughout the process, ensuring high **RELIABILITY** and **COMFORT**.



### Benefits

-  **Flexible Installation**
-  **High reliability**
-  **Stable operation**

Up to 19 sensors are distributed throughout the refrigerant system, and the status of the refrigerant can be determined throughout the process, ensuring stable operation. At the same time, combined with the digital twin technology of the refrigerant system, a virtual sensor can be created in the event of a physical sensor failure, so that the system does not shut down in the event of a sensor failure, ensuring comfort.



### Complete Sensors

The 8th Gen Series VRF is equipped with up to 19 condition monitoring sensors, combined with built-in data models of compressors, heat exchangers and throttling components, which can analyze the operation data in real time and monitor the refrigerant condition of the system.

### Refrigerant Amount Diagnosis

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



### Virtual Sensor Backup

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

# Midea ETA (META) 2.0

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



- Energy saving
- Enhanced comfort
- Fast cooling

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

**STEP 1: Architectural space feature recognition**

**Variable Refrigerant Flow**

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.

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**STEP 2: System refrigerant temperature determination**

**Variable Refrigerant Temperature**

The system automatically matches the evaporating temperature to the room load to maximize comfort and energy efficiency.

Automatic matching of the corresponding refrigerant temperature to the load.

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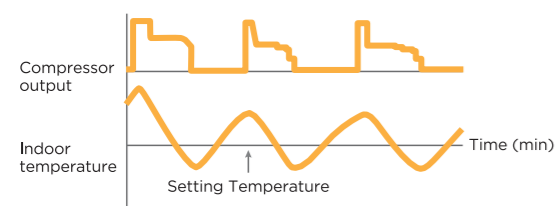
**STEP 3: Adaptive indoor airflow and refrigerant flow**

**Variable Indoor Airflow**

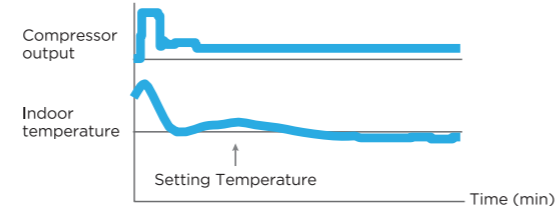
The system automatically matches the evaporating temperature to the room load to maximize comfort and energy efficiency.

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

### Conventional refrigerant regulation



### 8th Gen Series 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 devices and other advanced technologies used in VC MAX 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.

\*The above temperatures are for reference only.

### Long Distance Air Delivery\*

The Four-Way Cassette has an additional 50Pa of static pressure for long airflow delivery and can be used in spaces of up to 4.5m in floor height.

\*This function is available as a customization option.

### Innovative Puro-air Kit

Protectors of health and safety

\*The indoor unit needs to be customized in order to use the Puro-air kit.

From Germany - OSRAM quality UV light source.

Ozone -Free UV leakage-Free

# Doctor M 2.0

Further upgraded **DOCTOR M** technology to maximize **EASY SERVICE**.



### Benefits

- Easy maintenance
- Fast maintenance
- Low maintenance cost

Based on a cloud-based platform of big data and artificial intelligence, the 8th Gen Series VRF can monitor the operation status of each unit in real time, predict system faults in advance and provide data analysis for system maintenance. The intelligent Bluetooth module and special Bluetooth after-sales kit can further simplify maintenance and improve maintenance efficiency.

## Intelligent Maintenance Tool

With the 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 connecting a PC or opening the cabinet.



\*The Bluetooth module is available as a customization option.



## Real-time Monitoring of Operating Parameters

The 8th GenSeries 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 8th Gen Series VRF 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.

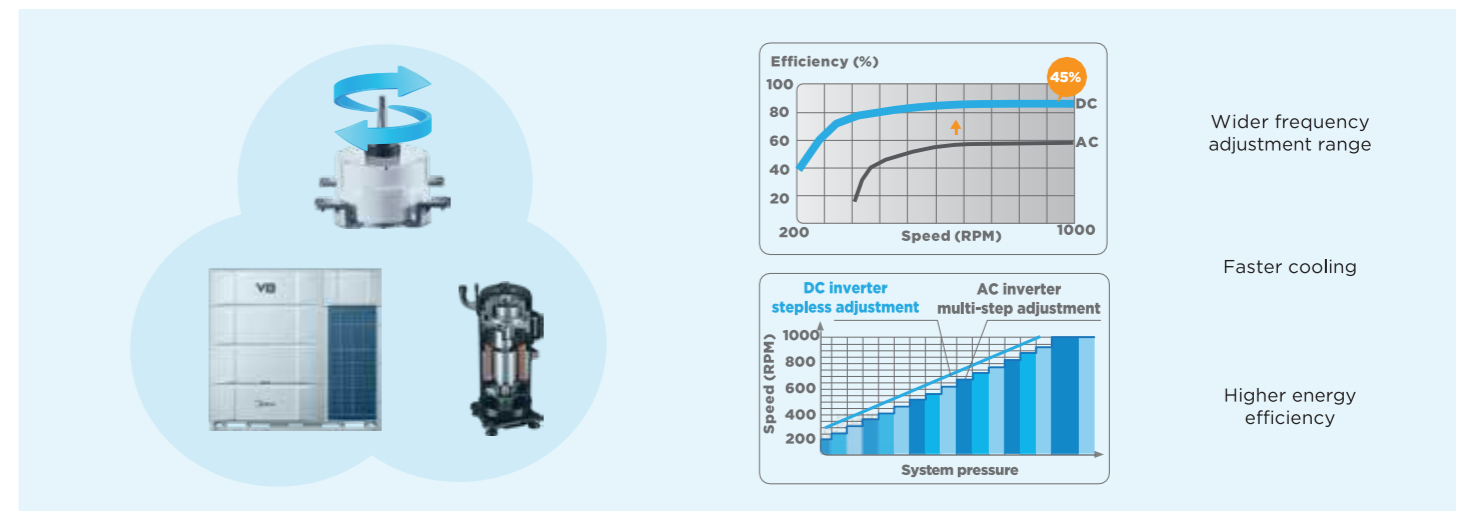
\*The data cloud gateway needs to be purchased separately.

# High Efficiency

## Full DC Inverter Technology

### Full DC Inverter for Outdoor Components

The 8th Gen Series VRF uses full DC inverter compressor and fan motor to achieve high precision stepless speed adjustment according to system operation, and ensures that the system is always in optimum condition, operating more efficiently, more consistently and with less noise.



**Efficiency (%) vs Speed (RPM)**

Speed (RPM)	DC Efficiency (%)	AC Efficiency (%)
200	~40	~20
1000	~95	~70

DC efficiency is 45% higher than AC at 1000 RPM.

**DC inverter: stepless adjustment** vs **AC inverter: multi-step adjustment**

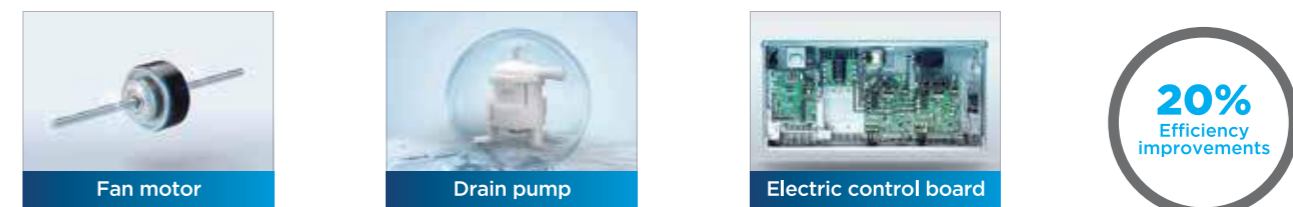
**Speed (RPM) vs System pressure**

System pressure	DC inverter Speed (RPM)	AC inverter Speed (RPM)
Low	~200	~400
High	~1000	~1000

DC inverter provides wider frequency adjustment range, faster cooling, and higher energy efficiency.

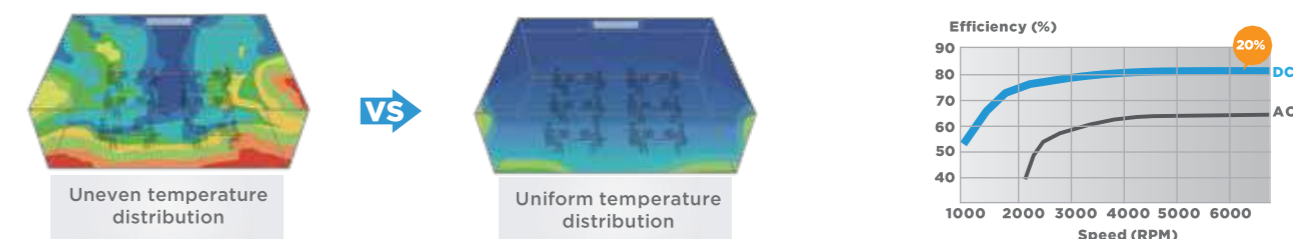
### Full DC Inverter for Indoor Components

All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.



Fan motor, Drain pump, Electric control board

**20% Efficiency improvements**



**Uneven temperature distribution** vs **Uniform temperature distribution**

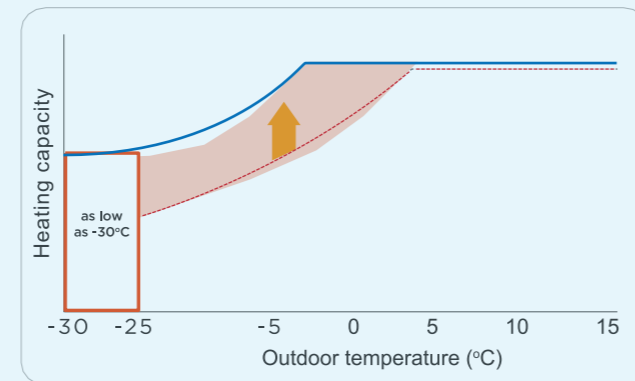
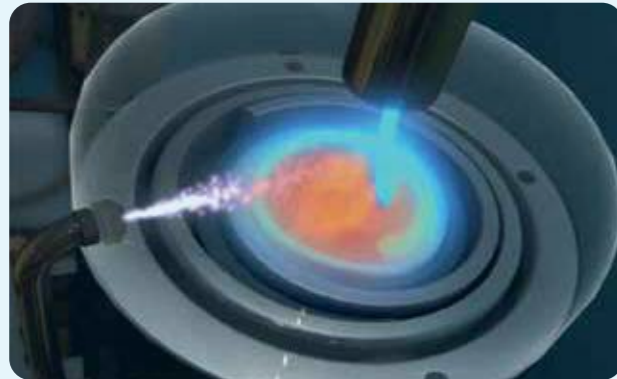
**Efficiency (%) vs Speed (RPM)**

Speed (RPM)	DC Efficiency (%)	AC Efficiency (%)
1000	~50	~40
6000	~85	~65

DC efficiency is 20% higher than AC at 6000 RPM.

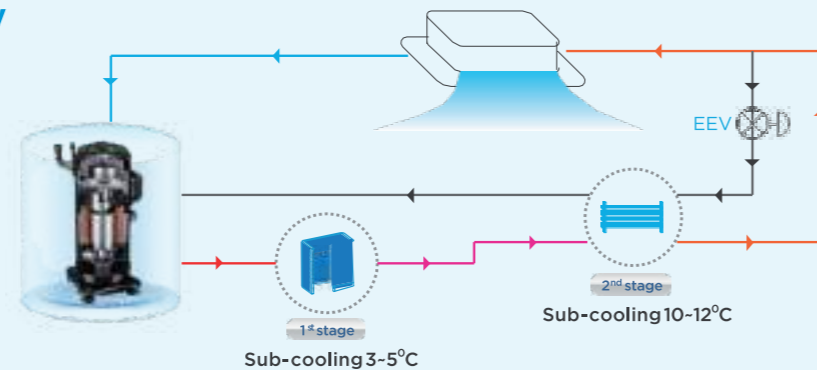
### Enhanced Vapor Injection (EVI) Compressor

The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves cooling capacity.



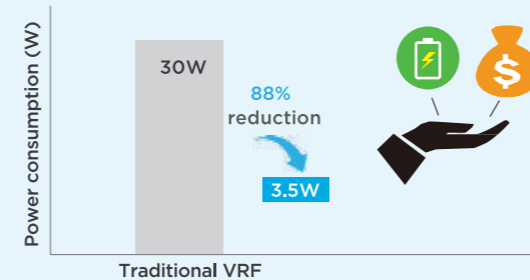
### Advanced Subcooling Technology

The 8th Gen Series VRF uses a micro-channel heat exchanger to further cool the refrigerant and the refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound of refrigerant flow.



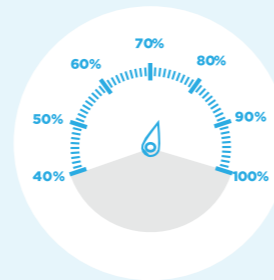
### Low Standby Power Consumption

Compared to the standby power consumption of traditional VRF of about 30W, the 8th Gen Series VRF uses optimized control scheme to further reduce standby power consumption to as low as 3.5W.



### 60-Step Energy Management

For projects with temporary electricity supply restrictions, the outdoor unit supports 60-step energy management which can be set to output 40-100% capacity in 1% increments. It prevents tripping during conditions of restricted electricity supply and allows the system to continue to operate.



## High Reliability

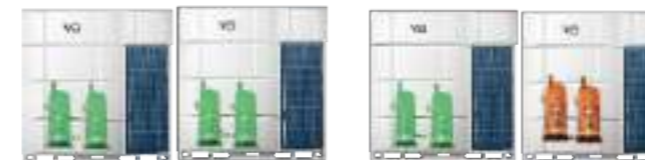


### Quadruple Backup

In two fans, two compressors and multiple units, one can run in backup for another. Additionally, the 8th Gen series VRF generates a corresponding virtual sensor for each physical sensor by means of a digital algorithm, which serves as a backup for each other, ensuring no shutdown in the event of a fault, and further guaranteeing comfort.

#### 1 Unit Backup

In a multi-unit system, the different units act as a backup to each other, ensuring that the system can continue to operate if one unit fails.



Operation Compressor

Failed Compressor

Intelligent load-bearing between units during normal operation

Continue operating in case of failure of one unit

#### 2 Fan Backup

In unit with two fans, the two fans act as a backup to each other, ensuring that the system can continue to operate if one fan fails.



Operation Fan

Failed Fan

In normal operation, each fan runs on demand

Automatic backup operation of another fan in case of failure of one fan

#### 3 Compressor Backup

In unit with two compressors, the two compressors act as a backup to each other, ensuring that the system can continue to operate if one compressor fails.



Intelligent load-bearing between compressors during normal operation

Intelligent load-bearing between compressors during normal operation

#### 4 Sensor Backup

New & Unique

Through digital algorithms, each physical sensor generates a corresponding virtual sensor that acts as a backup to each other, ensuring that the failure of one sensor does not affect the normal operation of the system.

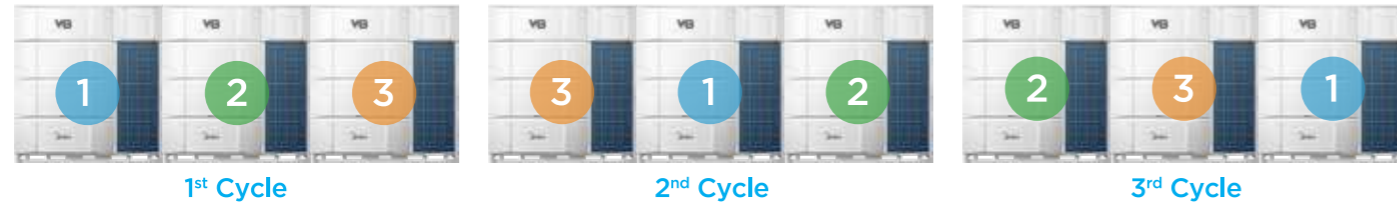


Automatic backup operation of the corresponding virtual sensor in case of failure of one physical sensor

## Double Duty Cycling

### 1. Unit Duty Cycling

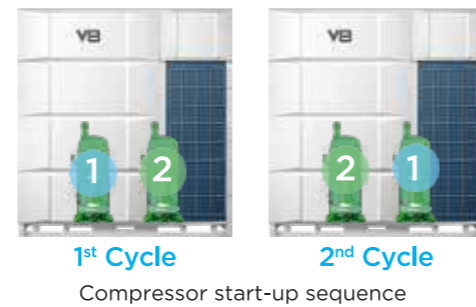
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



Note: The duty cycling sequence shown in the figure is only a schematic reference. The actual duty cycling sequence is not a fixed sequence. Please refer to the technical manual for specific rotation rules.

### 2. Compressor Duty Cycling

In units with two compressors, duty cycling equalizes the running time of each compressor, significantly extending compressor lifespan.



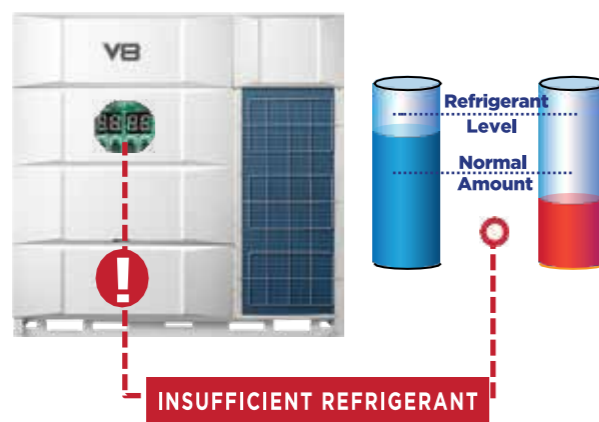
### SuperSense

8th Gen Series VRF uses up to 19 sensors for each outdoor unit and 4 sensors for each indoor unit. The operating status of the system refrigerant is clearly visible, which can achieve intelligent analysis of operation parameters, intelligent error diagnosis and forecasting, and visualized energy saving.



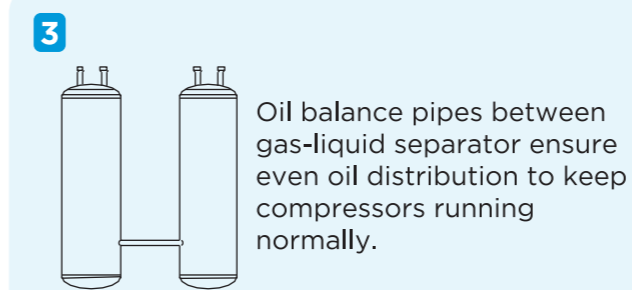
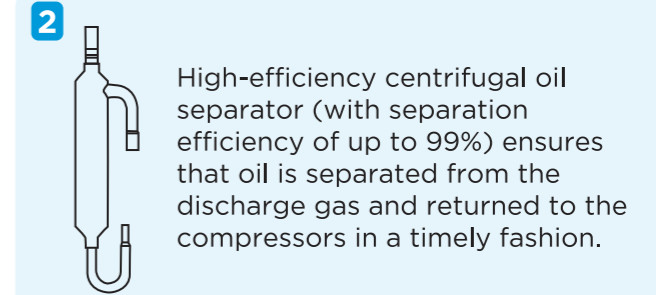
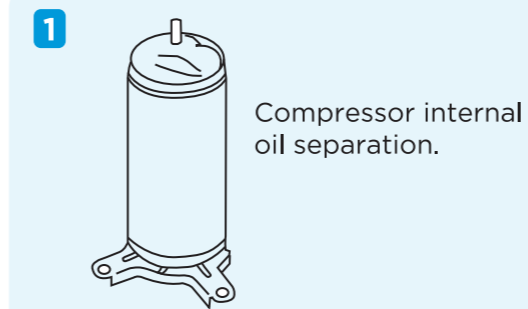
### Refrigerant Amount Diagnosis

8th Gen Series VRF monitors temperature and pressure of refrigerant. When the level of refrigerant is too low or too high, this can cause damage to the unit and poor performance. The unit can detect excessive or insufficient amounts of refrigerant, to ensure consistent performance.



## Precise Oil Control

Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.



### Auto Dust-clean & Snow-clean Function

The innovatively designed dust-clean & snow-clean function enables the outdoor unit to prevent the dust & snow by itself.



### ShieldBox

IP55 fully enclosed electric control box provides all-round protection for internal electronic components, greatly improving system reliability.

**IP 55**

#### Dustproof grade code

Prevent entry foreign objects and dust

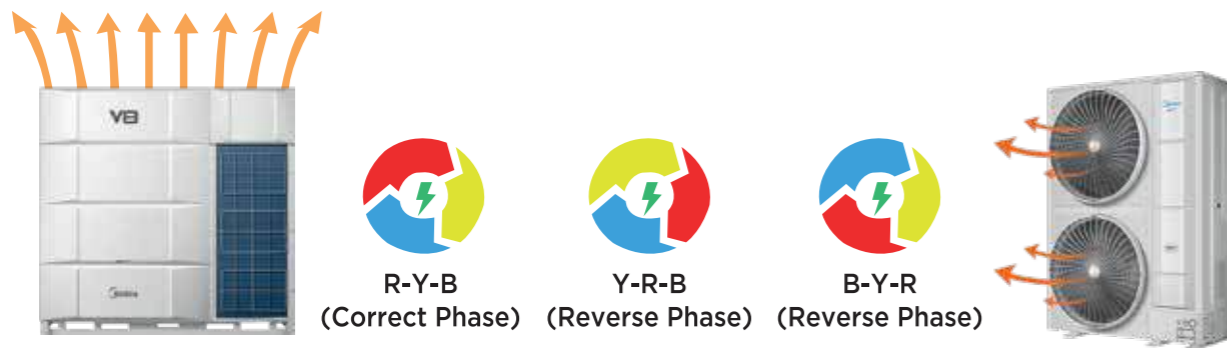
#### Waterproof grade code

Prevent water spray in all directions



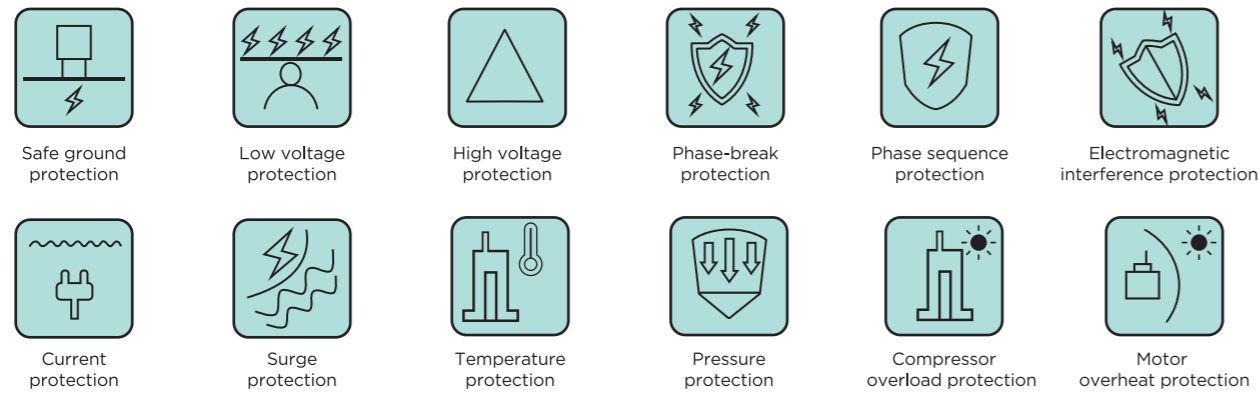
### Reverse Phase Operation

With New & Innovative Technology, 8th Gen Series VRF remain operation on restore of reverse phase to provide uninterrupted comfort.



### Multiple Protection Function

Multiple protection function, such as safe ground protection, voltage protection, temperature protection, current protection, pressure protection, compressor overload protection, motor overheat protection, electromagnetic interference protection etc. ensuring the system consistently safe and reliable Operation.



### Extreme Testing

Tests under extreme conditions such as Highly Accelerated Life. Testing (HALT), Surge testing and Electro-Static Discharge (ESD), the test conditions for which are far more extreme than EU test standards are performed on the units to further guarantee the reliability of electronic components.



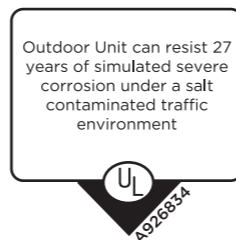
### Anti-corrosion Protection

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.

### 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 heavy anti-corrosion treatment units.



## Enhanced Comfort



### Advanced Silent Technology

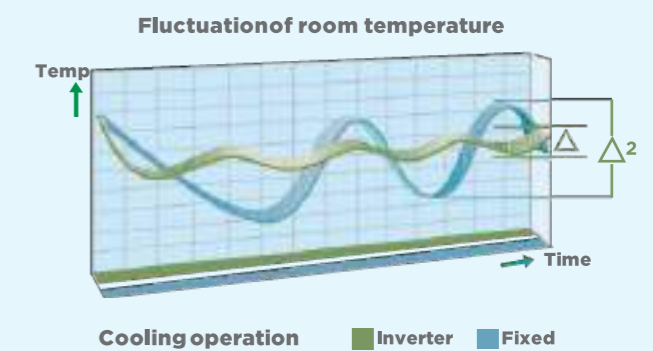
15-step silent mode provide more freedom and convenience to match the customer needs.



15 silent options

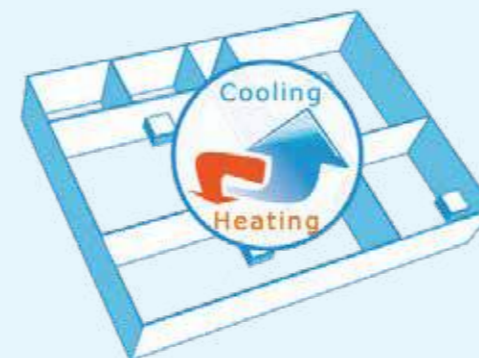
### Fast Cooling

15-step silent mode provide more freedom and convenience to match the customer needs.



### Auto Cooling-heating Changerover

Automatically selects cooling or heating mode to achieve the set temperature.



### 10 Priority Modes

10 priority mode options provide more freedom and convenience to match the customer needs.



# Wide Application Range

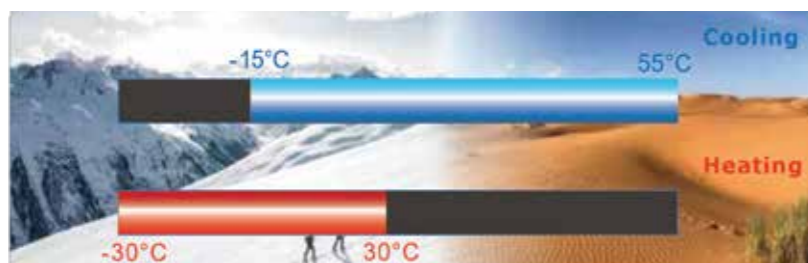
## Wide capacity range

Midea provide wide capacity range in this all segment.



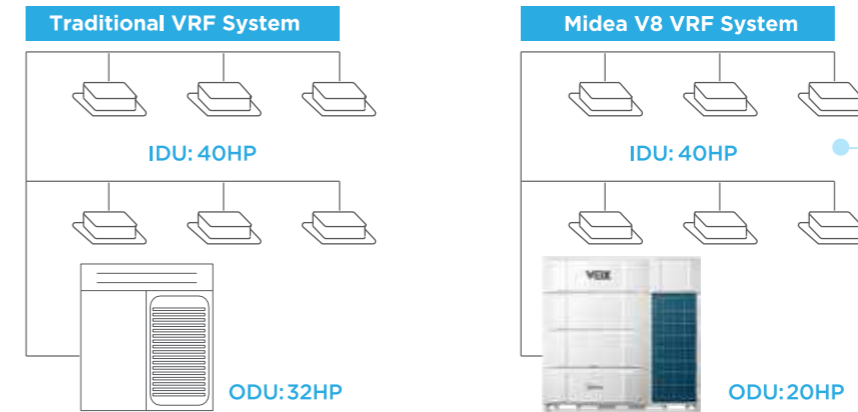
## Wide Operation Range

With the integration of EVI compressor technology and advanced refrigerant cooling, the 8th Gen Series VRF ensures reliable heating operation at temperatures as low as -30°C and efficient cooling performance at temperatures up to 55°C.



## Wide Combination Ratio\*

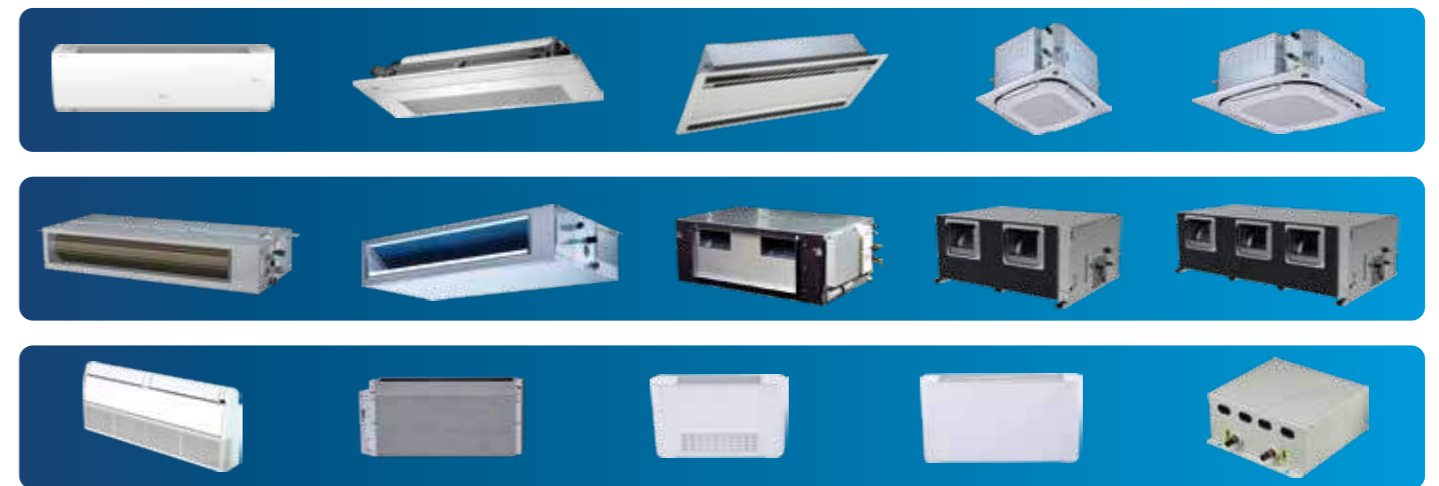
Compared to traditional VRF with combination ratio of 50-130%, the 8th Gen Series VRF can be extended to 50-200%, and the wider combination ratio allows for more flexible system configuration. The larger combination ratio can be applied to long-term part-load operation scenarios, allowing for further reduction in installation costs.



\*CR over 130% is available as a customization option.

## Wide Range of Indoor Units

The 8th Gen 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.

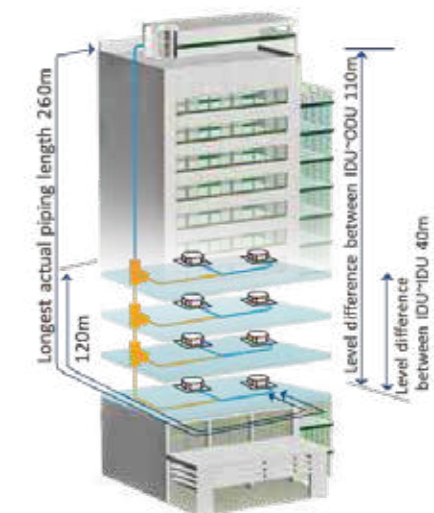


## Wide Range of Indoor Units

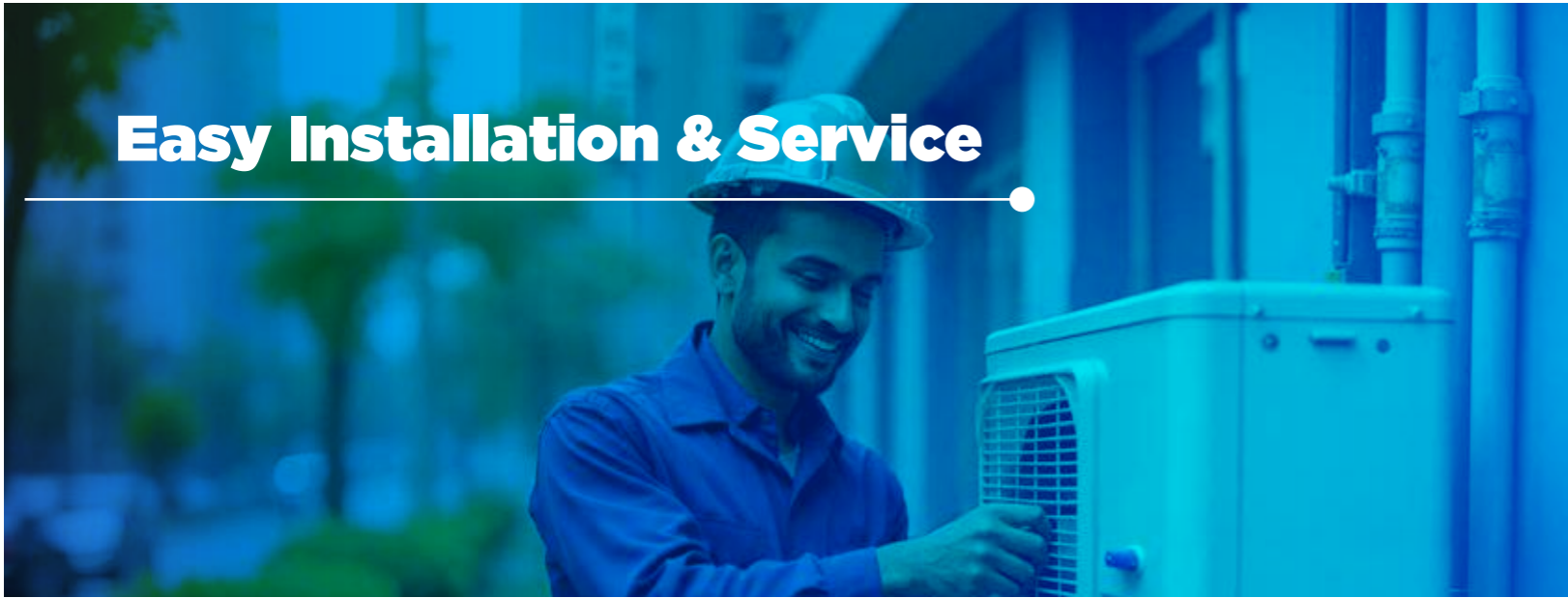
The 8th Gen VRF system can support a total piping length of up to 1100m, an installation height difference of up to 110m between indoor and outdoor units, and up to 40m between indoor units, making the 8th Gen Series VRF adaptable to a wide range of building designs.

Midea VRF Pipe Length & Level Difference						
Pipe Length & Level Difference in meters		AtomB	VCI	V8S	V8X	VC Max
Pipe Length	Total max. Pipe Length	150 - 300	150	560	1100	1100
	Max. Pipe Length	60 - 120	130	175	260	260
	Max. piping length after IDU	30 - 40	40	40/90*	40/120*	40/120*
Level Diff.	Max. ODU to ODU if ODU Up	30	50	50	110	110
	Max. ODU to ODU if ODU	20	40	40	110	110
	IDU to IDU	10	15	30	40	40

If the ODU above & level difference is greater than 20m, it is recommended to use an oil return bend at every 10m in the gas pipe of the main pipe



# Easy Installation & Service



## Free Wiring

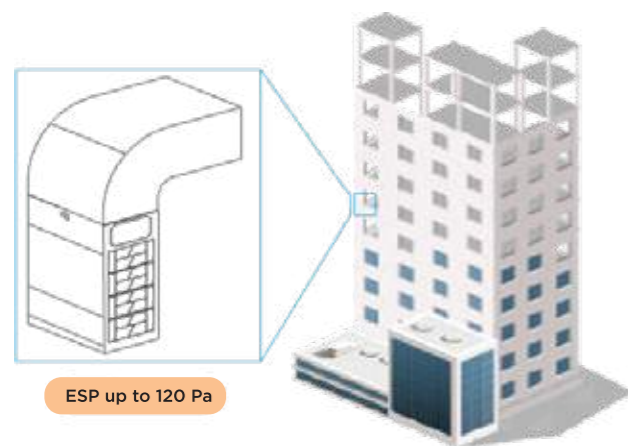
HyperLink communication technology supports any wiring pattern rather than just daisy chain connection, reducing the installation cost and the possibility of incorrect connection. It has stronger anti-interference ability, achieving a communication distance of up to 2000m.



## External Static Pressure 20Pa\* & 35Pa\*

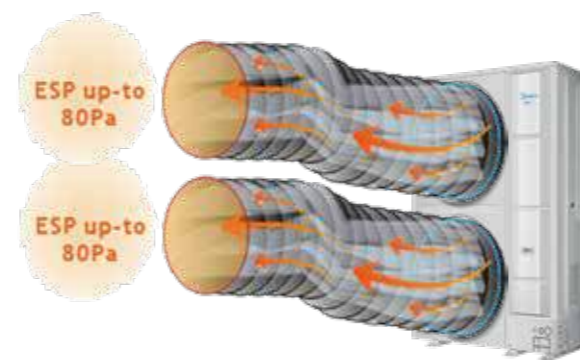
The static pressure of the outdoor unit can be up to 120 Pa which facilitates installation of the unit on each floor of high-rise buildings or on balconies.

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



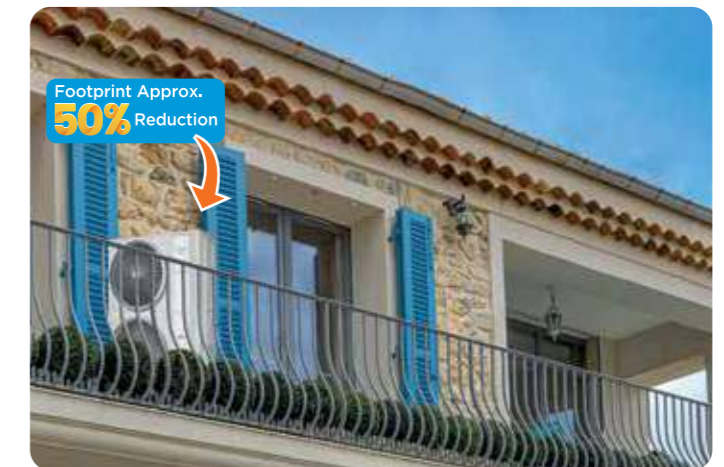
The static pressure of the outdoor unit can be up to 80Pa which facilitates installation of the unit on each floor of high-rise buildings or on balconies.

\*External static pressure above 35Pa is available as a customization option.



## Space Saving

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



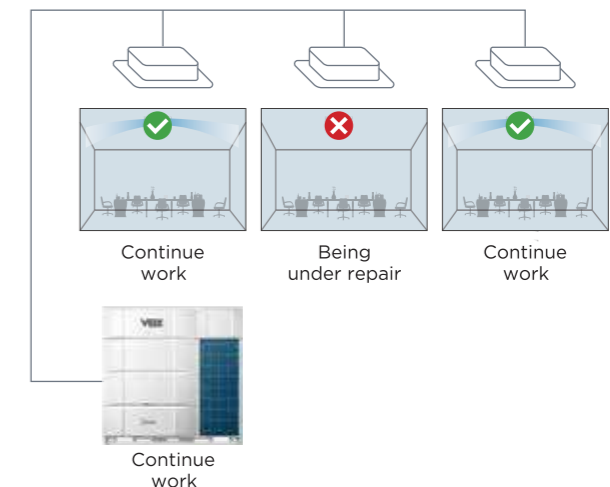
## Auto Addressing

Addresses for all indoor units and combined outdoor units can be assigned automatically by the 8th Gen VRF system, further simplifying installation.



## 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.



## 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

\*This function is available as a customization option.

### 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



## Automatic Refrigerant Recycling

When an indoor unit fails, the refrigerant can be recycled into the outdoor units. When part of the outdoor unit fails, the refrigerant can be recycled into the indoor units and the normal outdoor unit. Two types of refrigerant recycling make the maintenance process easier and more efficient.



## Universal PCB

Universal Main PCB Board for the entire capacities range in its model



## 360° Pipe Connection

The knock-out holes for piping, power, and communication cables are located in a variety of directions, allowing for more convenient installation of Outdoor Unit since the piping and cable direction can be freely selected from the front, left, and right side.



## Easy Software Program Upgrade

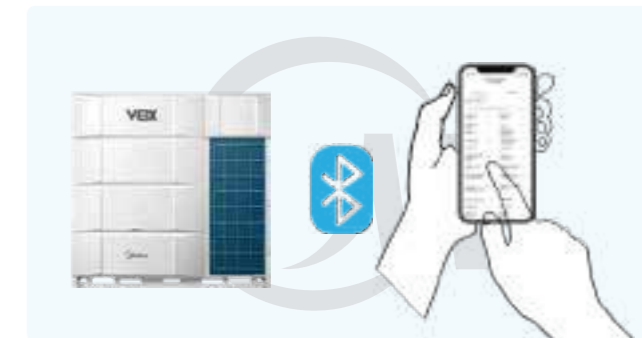
In addition to upgrading the program of outdoor and indoor units through USB and burner, the new product can also remotely upgrade all the programs of indoor and outdoor units through the data cloud gateway, making system upgrades very convenient and ensuring that the system program is always up to date.

\*The data cloud gateway needs to 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.

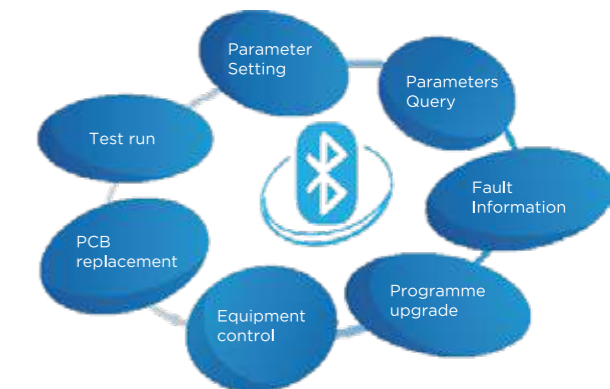


### Useful in the following situations

- 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



# Outdoor Unit Function & Features

Function	Features /Function						
	Description	V8X	V8S	AtomB	VC Max	VC-4	
Innovative Technologies	HyperLink	Midea original communication bus chip greatly simplifies installation and saves installation costs	o	.	x	.	x
	ShieldBox	IP55 fully sealed electric control box realizes resisting all protects against intrusion and damage to the electric control box	.	x	x	.	x
	SuperSense	Numbers of sensors monitor the state of each part of the refrigerant pipeline throughout the whole process	19 Sensors	18 Sensors	x	17 Sensors	x
	Midea ETA 2.0	Triple variable control maximizes comfort and energy efficiency	.	.	x	.	x
	Zen Air 2.0	Provides comfort and healthy air supply	.	.	.	.	.
Doc for M 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient	.	.	x	.	x	
High Efficiency	Full DC inverter technology	All electrical components of outdoor and indoor units use DC power supply, improving electrical efficiency and saving energy	.	.	.	.	.
	Enhanced Vapor Injection (EVI) compressor	Increases refrigerant circulation and improves cooling capacity	.	.	x	.	x
	Micro-channel refrigerant sub-cooling	The refrigerant system can achieve 15°C refrigerant sub-cooling, which can further improve the refrigerant heat transfer efficiency while reducing noise	.	.	x	.	x
	Low standby power consumption	The standby power consumption is as low as 3.5W	.	.	x	.	x
	G-type heat exchanger	Large capacity outdoor unit with G-type heat exchanger, which can increase the heat exchanger area and save floor space	.	x	x	x	x
	60-step energy management	The system can be set from 40% to 100% capacity output in 1% increments	.	.	x	.	x
High Reliability	Duty cycling (unit)	Equalizes the running time of the outdoor units in a multiple-unit system, significantly extending unit lifespan (available for combined units)	.	.	x	.	x
	Duty cycling (compressor)	Equalizes the running time of the compressor in each unit, significantly extending compressor lifespan (available for units with two compressors)	.	x	x	.	x
	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (available for combined units)	.	.	x	.	x
	Backup operation (compressor)	If one compressor fails, the other compressor provides backup so that the system can continue operating (available for units with two compressors)	.	x	x	.	x
	Backup operation (fan motor)	If one fan motor fails, the other fan motor provides backup so that the system can continue operating (available for unit units two fan motors)	.	.	x	.	x
Backup operation (sensor)	If one sensor fails, the virtual sensor provides backup so that the system can continue operating	.	.	x	.	x	
High Reliability	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating compressor oil shortages	.	.	.	.	.
	Anti-corrosion protection	Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard	.	.	.	.	.
	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	o	o	o	o	o
	Micro-channel refrigerant cooling PCB	10 times higher than ordinary refrigerant pipe cooling efficiency	.	.	x	.	x
	Auto dust-clean function	Blows away accumulated dust on the outdoor unit, guaranteeing stable unit operations in a dusty environment	.	.	x	.	x
	Alarm output	In the event of system malfunction, remotely output error information and remind maintenance personnel to conduct maintenance	.	.	x	.	x
Enhanced Comfort	Fire alarm input	In the event of fire, receive fire information in time and stop the system immediately to avoid serious problems	.	.	x	.	x
	Silent mode	15-step silent mode selections provide more freedom and convenience to match the needs of customers	.	.	x	.	x
	Intelligent defrosting technology	Calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting	.	.	.	.	.
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature (available in changeover priority mode)	.	.	x	.	x
Wide Application Range	Continuous heating in oil return mode	Oil return in heating mode does not need to convert to cooling mode, further enhancing indoor comfort (activated via menu setting)	.	.	.	.	.
	0.1°C control precision	Control precision of the sensor can reach 0.1°C, ensuring less fluctuations in room temperature	.	.	.	.	.
	Multiple priority modes	10 priority modes meet the requirements of all scenarios	.	.	.	.	.
	Wide capacity range	Meets all customer requirements from small to large buildings	8-38HP (single) 40-114HP (combined)	8-18HP (single) 20-72HP (combined)	8-15.5 kW (Single)	8-32HP (single) 34-96HP (combined)	20-28 kW
Easy Installation And Service	Wide range of indoor units	Provides 12 types and more than 100 models of VRF indoor units to meet the needs of different application scenarios	.	.	.	.	.
	Wide operation range	Operates stably under extreme conditions	Cooling - 15~55°C, Heating - 30~30°C	Cooling - 15~55°C, Heating - 30~30°C	Cooling - 5~55°C, Heating - 15~27°C	Cooling - 15~55°C, Heating - 5~55°C	
	Long piping capability	Benefits for the system design, installation flexibility, as well as the less installation cost	.	.	.	.	.
	Auto addressing (ODU-IDU)	Distributes addresses to indoor units automatically, simplifying the installation	.	.	.	.	.
Easy Installation And Service	Auto addressing (ODU-ODU)	Distributes addresses to slave outdoor units automatically, further simplifying the installation (available for combined units)	.	.	.	.	.
	Automatic refrigerant charging	Makes installation and service easier and more efficient	o	o	x	o	x
	Automatic refrigerant recycling	Refrigerant can be recycled to ODU or IDUs and normal ODU, making the maintenance easier and more efficient	.	.	.	.	.
	Bluetooth module	It can be used for fault information storage, operation parameter enquiry, system parameter setting, quick after-sales PCB replacement, programme upgrade for indoor and outdoor units, etc., simplifying installation and maintenance.	o	o	x	o	x
	Digit display	2 & 4 digit 7-segment display can be intuitive for parameter setting, parameter checks and error checks	4 Digit	4 Digit	2 Digit	4 Digit	4 Digit
	High external static pressure	ESP can be extended as optional to allow easy handling in a variety of installation environments	Std-20, Opt-80	Std-35, Opt-80	x	Std-20, Opt-120	x
	Arbitrary topology of communication wire	Supports any communication topology, greatly simplifies installation and reduces installation cost	o	.	x	.	x
	2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures	o	.	x	.	x
	Long communication wiring	Communication wiring up to 2000m makes installation more flexible	.	.	x	.	x
	Wide combination ratio	Combination ratio can be extended to 50%~150% & 200% (Optional) with Single ODU under certain conditions which can meet different project requirements	Std-0-130%, Opt: (50~150%)	Std-0-130%, Opt: (50~200%)	Std-0-130%	Std-0-130%, Opt: (50~200%)	Std-0-130%
	Supports manual and automatic oil return	Improves maintenance efficiency	.	.	.	.	.
	Easy software program upgrade	The software program can be upgraded via on-site USB and burning, or remotely via the web	.	.	x	.	x
Flexible controller connection	Central controller and BMS gateway can connect to the ODU at the same time, and the central controller can connect to the ODU or IDU	.	.	.	.	.	
Refrigerant amount diagnosis	The unit can diagnose excessive or insufficient amounts of refrigerant, and prompt maintenance personnel to check the system in time to avoid serious malfunction	.	.	.	.	.	
Easy system commissioning and checking	System commissioning and checking can easily be completed on-site or remotely via the web	.	.	x	.	x	
Intelligent maintenance tool	Intelligent bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency	o	o	x	o	x	

• Equipped as Standard o Customization Option x Without This Function

# Outdoor Unit Specification

Line-up	Series	Appearance	Model	Category	Cooling			Heating			Comp. type & qty.	Air Flow/ Fan Qty.	Noise level	R-410A Pre Ref. Qty	Ref. Pipe Size		Unit Size (WxDxH)		Net Wt.	Max IDUs cont..
					Cap.	Power Input	Eff.	Cap.	Power Input	Eff.					Liquid	Gas	mm	Kgs		
					kW	kW	EER	kW	kW	COP					mm	mm	mm	Nos		
Heat Pump	V8X		MV8X-252WV2GN1	8 HP	25.2	5.29	4.76	27	5.01	5.39	EVI DC Scroll Inverter - 1	7412 / 1	56	7	12.7	25.4	940x825x1760	195	13	
			MV8X-280WV2GN1	10 HP	28	6.48	4.32	32	6.16	5.11		7412 / 1	57	7				195	16	
			MV8X-335WV2GN1	12 HP	33.5	7.81	4.29	38	7.81	4.8		7941 / 1	59	7				197	19	
			MV8X-400WV2GN1	14 HP	40	9.76	4.1	45	9.53	4.72		8470 / 1	59	7				197	23	
			MV8X-450WV2GN1	16 HP	45	10.74	4.19	50	10.73	4.66		9176 / 1	59	8				213	26	
			MV8X-500WV2GN1	18 HP	50	12.17	4.11	56	12.76	4.39		9176 / 1	60	8				213	29	
			MV8X-560WV2GN1	20 HP	56	14	4	63	14.42	4.37		9706 / 1	61	8.4				215	33	
			MV8X-615WV2GN1	22 HP	61.5	15.57	3.95	69	16.63	4.15		12941 / 2	62	9.3				295	36	
			MV8X-670WV2GN1	24 HP	67	17.87	3.75	75	18.47	4.06		12941 / 2	62	9.3				295	39	
			MV8X-730WV2GN1	26 HP	73	18.77	3.89	82	19.78	4.12		12647 / 2	62	12				315	43	
			MV8X-785WV2GN1	28 HP	78.5	20.6	3.81	88	21.45	4.08		12647 / 2	62	12				315	46	
			MV8X-850WV2GN1	30 HP	85	22.43	3.79	95	24.42	3.89		17059 / 2	63	19				373	50	
	V8S		MV8S-252WV2GN1	8 HP	25.2	5.8	4.34	27	5.7	4.74	EVI DC Scroll Inverter - 1	6941 / 2	56	6.1	12.7	25.4	1130x445x1760	177	13	
			MV8S-280WV2GN1	10 HP	28	7.5	3.73	31.5	6.8	4.63		7353 / 2	57	6.1				177	16	
			MV8S-335WV2GN1	12 HP	33.5	8	4.19	37.5	7.9	4.75		7353 / 2	58	6.4				180	19	
			MV8S-400WV2GN1	14 HP	40	11.2	3.57	45	10.5	4.29		7353 / 2	59	7.4				182	22	
			MV8S-450WV2GN1	16 HP	45	11.6	3.88	50	11.9	4.2		10882 / 2	60	8				208	26	
			MV8S-500WV2GN1	18 HP	50	12.8	3.91	56.5	13.5	4.19		11765 / 2	61	8				208	29	
	AtomB		MDV-V28WDHN1(AiB)	8 kW	8	2.1	3.81	9	2.04	4.41	DC Rotary Inverter - 1	2176 / 1	54	1.7	9.53	15.9	910x426x712	53	4	
			MDV-V36WDHN1(AiB)	10 kW	10	2.66	3.76	12	3.15	3.81		3059 / 1	54	2.3				66.5	6	
			MDV-V42WDHN1(AiB)	12 kW	12	3.31	3.63	14	3.64	3.85		2941 / 1	56	2.4				70	7	
			MDV-V48WDHN1(AiB)	14 kW	14	3.97	3.53	14	3.98	4.02		3059 / 1	56	3.1				82	8	
			MDV-V56WDHN1(AiB)	15.5 kW	15.5	4.87	3.18	18	4.82	3.73		2941 / 1	56	3.6				84.5	9	
			Power Supply : 380-415V/ 3Ph/ 50Hz, Operating range - Cooling : -15 ~ 55°C, Heating : -30 ~ 30 °C, Fan Static Pressure- 20 Pa, Modular up-to : 3																	
Cooling Only	VC Max		MVCX-M224WV2GN1	8 HP	22.4	4.8	4.65	N.A.	N.A.	N.A.	EVI DC Scroll Inverter - 1	7412 / 1	57	7.4	12.7	25.4	940x825x1760	185	13	
			MVCX-M280WV2GN1	10 HP	28	6.8	4.14					7412 / 1	58	7.4				185	16	
			MVCX-M335WV2GN1	12 HP	33.5	8.8	3.81					7941 / 1	60	7.4				185	19	
			MVCX-M400WV2GN1	14 HP	40	10.6	3.78					7941 / 1	60	7.4				185	23	
			MVCX-M450WV2GN1	16 HP	45	11.8	3.8					9176 / 1	61	8.4				200	26	
			MVCX-M500WV2GN1	18 HP	50	13.4	3.74					9176 / 1	62	8.4				200	29	
			MVCX-M560WV2GN1	20 HP	56	15.6	3.6					9706 / 1	63	10				225	33	
			MVCX-M615WV2GN1	22 HP	61.5	17.3	3.55					9706 / 1	63	10				225	36	
			MVCX-M670WV2GN1	24 HP	67	19	3.52					12647 / 2	64	12.8				260	39	
			MVCX-M730WV2GN1	26 HP	73	21.3	3.43					12647 / 2	64	12.8				260	43	
			MVCX-M785WV2GN1	28 HP	78.5	22.3	3.52					12941 / 2	64	15.4				325	46	
			MVCX-M850WV2GN1	30 HP	85	26.4	3.22					12941 / 2	64	15.4				325	50	
	MVCX-M900WV2GN1	32 HP	90	30.4	2.96	12941 / 2	64	15.4	325	53										
	Power Supply : 380-415V/ 3Ph/ 50Hz, Operating range - Cooling : -15 ~ 55°C, Fan Static Pressure - 20 Pa, Modular up-to : 3																			
	VCi		MDVC-V200W/DRN1	20 kW	20	5.13	3.9	N.A.	N.A.	N.A.	Twin DC Rotary Inverter - 1	4206 / 2	57	3.9	9.53	19.1	902x370x1327	115	10	
			MDVC-V224W/DRN1	22.4 kW	22.4	5.93	3.78					4206 / 2	57	3.9				115	13	
			MDVC-V260W/DRN1	26 kW	26	7.43	3.5					4206 / 2	58	3.9				115	15	
			MDVC-V280W/DRN1	28 kW	28	8.24	3.4					4206 / 2	59	3.9				115	16	
Power Supply : 380-415V/ 3Ph/ 50Hz, Operating range- Cooling : -5 ~ 55°C																				

### Notes:

- Nominal capacity are based on following conditions:  
Cooling: Indoor temp. 27°C DB, 19°C WB; outdoor temp. 35°C DB; Heating: Indoor temp. 20°C DB; outdoor temp. 7°C DB, 6°C WB, Pipe length 7.5m with zero level difference.
- Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- 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.

## Indoor Unit

- One- Way Cassette
- Two-Way Cassette
- Compact Cassette
- Four-Way Cassette
- Wall Mounted
- Ceiling & Floor
- Floor Standing
- Medium Static Duct
- High Static Duct
- Treated Fresh Air Duct
- AHU Kit
- HRV

## Indoor Unit Line-up

Capacity (kW)	1.5	1.8	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8	9	10	11	13	14	16	18	20	22	25	28	34	36	40	45	56	168
Cassette	One-Way Cassette	•	•	•	•	•	•		•																		
	Two-Way Cassette		•	•	•	•	•		•																		
	Compact Cassette		•	•	•	•	•	•																			
	Four-Way Cassette			•	•	•	•		•	•	•	•	•		•	•	•										
Wall Mounted	Wall Mounted		•	•	•	•	•		•	•																	
	Ceiling & Floor				•	•	•		•	•	•	•	•	•													
Floor Standing	Floor Standing Concealed		•	•	•	•	•		•	•																	
	Floor Standing Exposed		•	•	•	•	•		•	•																	
Duct Unit	Medium Static Pressure Duct	•	•	•	•	•	•		•	•	•																
	High Static Pressure Duct						•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Treated Fresh Air Duct	Small Treated Fresh Air Duct										•				•	•			•		•						
	Treated Fresh Air Duct																		•	•	•	•	•	•	•	•	•
AHU Kit	AHU Kit										•							•					•		•	•	
HRV	HRV		•															•							•		
		200 CMH	300 CMH	400 CMH	500 CMH	800 CMH	1000 CMH	1500 CMH	2000 CMH																		

# Common Features in Indoor units

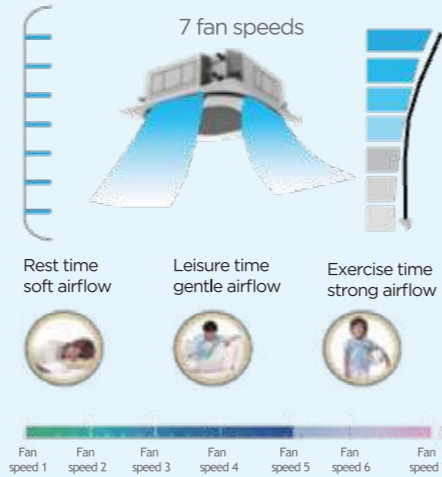
## Quiet Operation

The fan motor and water pump are DC power supply, which is more energy-saving and silent than AC power supply, creating a more quiet and comfortable environment



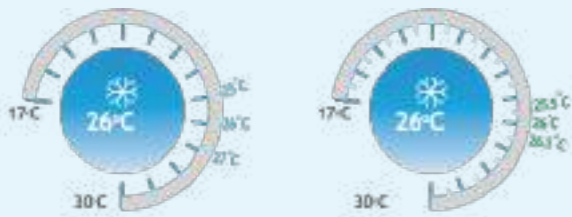
## 7 Fan Speeds

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



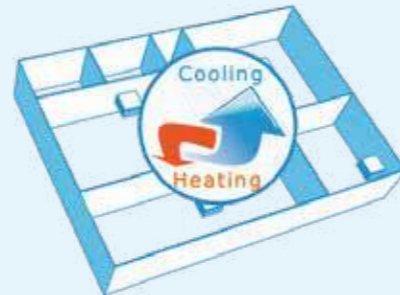
## 0.5°C / 1°C Setting Temperature Adjustment

Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control.



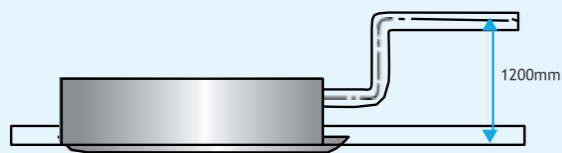
## Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.



## High-lift drain pump

A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping



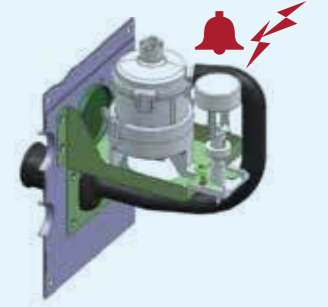
## Water level switch

A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping



## Digital feedback DC water pump

Digital feedback DC water pump: actively sense the pump speed and water flow to determine whether there is jamming attenuation or damage, and give early warning to avoid water leakage.



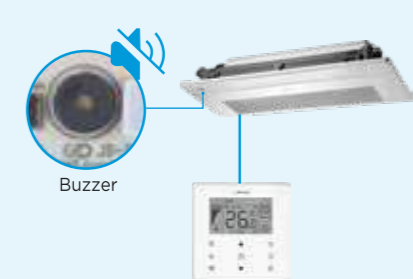
## Digital Display On/Off

Indoor unit displays can be shut off at night, creating a better environment for rest.



## Buzzer Sound On/Off

Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



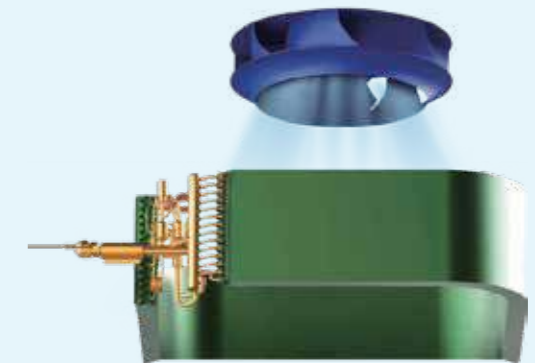
## Wired Remote with IR receiver

All the wired remote have IR receiver which help to operate the units from wireless remote too



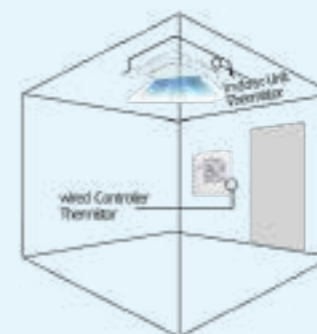
## Mildew proof of heat exchanger

When the indoor unit is turned off in cooling mode, the fan is still on, and dry the heat exchanger to avoid mold on the heat exchanger.



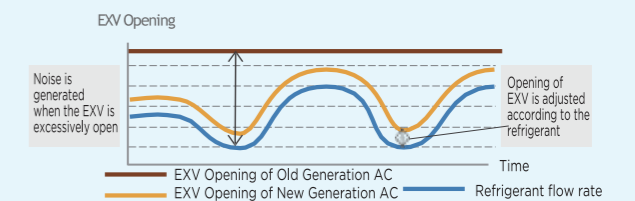
## Two thermistors control

The indoor temperature can be checked using the thermistor in the wired controller as well as from the indoor unit.



## EXV automatic adjustment

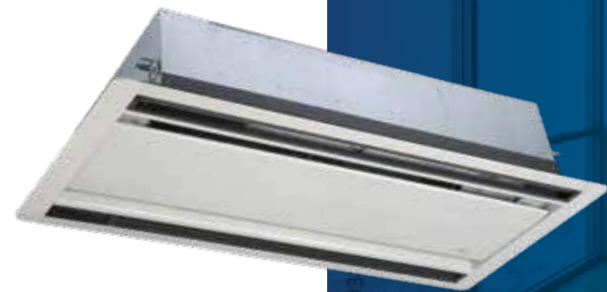
When in heating standby mode, the indoor unit automatically adjusts the EXV opening according to the load to eliminate noise of refrigerant flowing.



## Indoor Unit

### One-Way Cassette

- Automatic anti-condensation
- Multiple Steps Vertical Swing
- Built-in 1200mm high-lift rain Pump (Digital feedback DC water pump)



### Two-Way Cassette

- Automatic anti-condensation
- Multiple Steps Vertical Swing
- Built-in 1200mm high-lift rain Pump (Digital feedback DC water pump)

### Compact Four-Way Cassette

- 575mm compact body size
- 360° airflow uniform air flow and temperature dis.
- Individual louver control
- 3.5m high ceiling installation
- Built-in 1200mm high-lift drain pump



### Four-Way Cassette

- 360° airflow, uniform air flow and temperature distribution
- Individual louver control
- Built-in 1200mm high-lift drain pump

### Wall Mounted

- Supports installation close to the ceiling to free up space
- Bi-directional Coanda airflow, enhanced comfort
- Quiet operation



## Indoor Unit

### Ceiling & Floor

- A sleek design suits installation either on the ceiling or floor
- DC fan motor creates a more quiet and comfortable environment
- Optional 600mm high-lift drain pump (When the unit is installed on the ceiling)

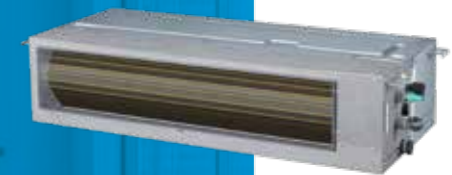


### Floor Standing

- ESP up to 60Pa (F3 concealed model)
- Three appearance options to meet different installation requirement
- 0.5°C/1°C Setting Temperature Adjustment

### Medium Static Pressure Duct

- ESP up to 160Pa (all models)
- 245mm ultra-thin height (all models)
- Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump with Airfilter
- Wired remote with IR receiver for Wireless Remote



### High Static Pressure Duct

- ESP up-to 250 Pa in 5.6 ~ 16kW & 400 Pa in 20 ~ 56kW
- 299mm ultra-thin height (5.6 ~ 16kW)
- Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump & Airfilter
- Wired remote with IR receiver for Wireless Remote

### Treated Fresh Air Duct

- Treated fresh air duct unit having range 9 ~ 56 kW
- ESP up-to 300 Pa in 9 ~ 28kW & 400 Pa in 20 ~ 56kW
- Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump & Airfilter
- Wired remote with IR receiver for Wireless Remote



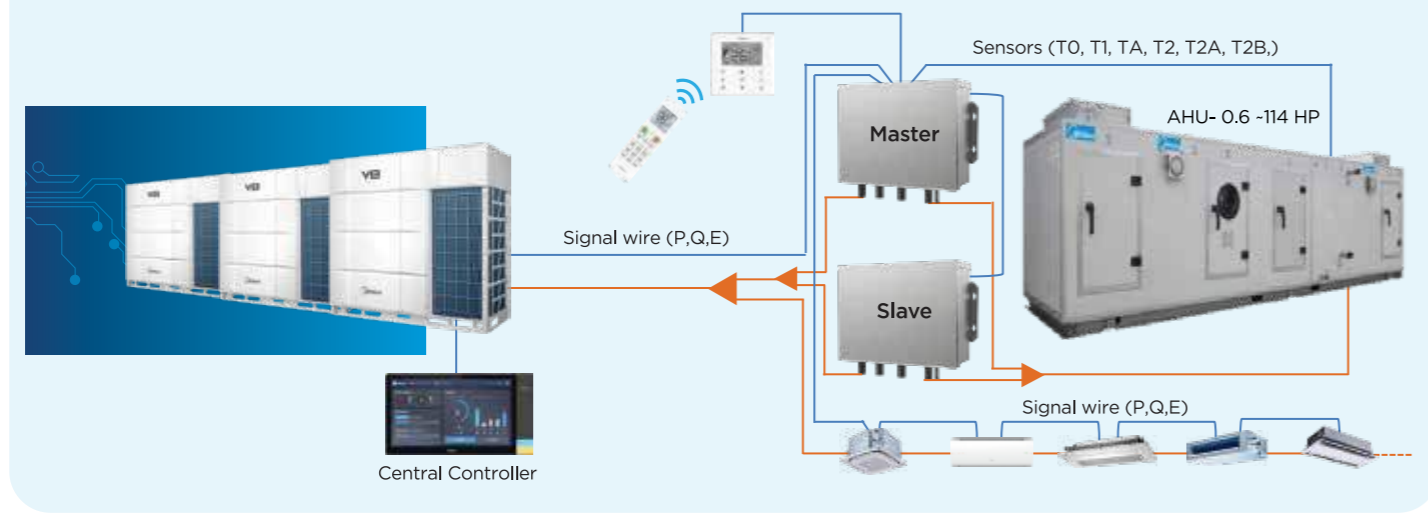
# Indoor Unit

## AHU Kit

The Midea AHU kit enables seamless integration of trailer-made AHUs with Midea VRF systems, ensuring superior performance and energy efficiency.

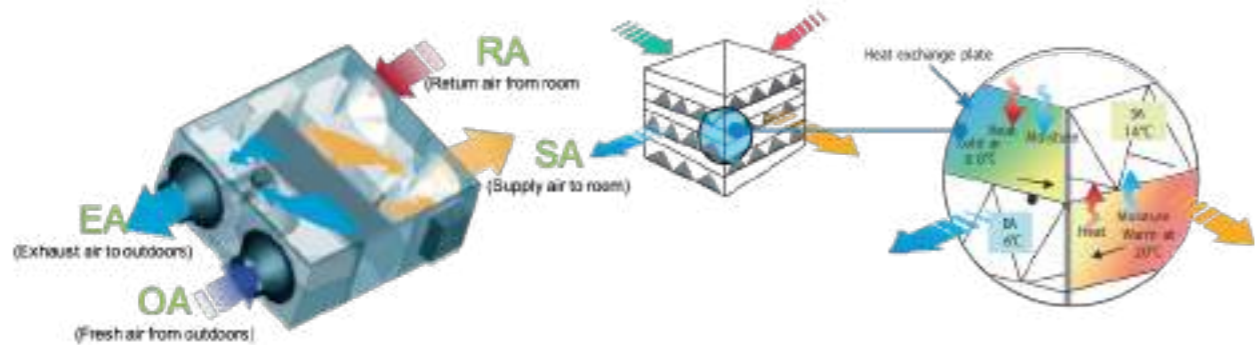


## Multi ODUs & AHU Kit Connection



## Heat Recovery Ventilator (HRV)

The Midea heat recovery ventilator (HRV) can greatly reduce energy losses and room temperature fluctuations caused by the ventilation process. Temperature exchange efficiency is over 65% and enthalpy exchange efficiency is 50-65%.









# Indoor Unit Function & Features Overview

Functions		One-Way Cassette	Two-Way Cassette	Compact Cassette	Four-Way Cassette	Wall Mounted	Ceiling & Floor	Medium Static Duct	High Static Duct	Floor Standing	Small Fresh Air Processing	Fresh Air Processing	
* : equipped as standard; ◯ : customization option; ✖ : without this function Processing													
Comfort & Health	Quiet operation	•	•	•	•	•	•	•	•	•	•	✖	
	Auto cooling-heating changeover	•	•	•	•	•	•	•	•	•	•	•	
	Cold air prevention	•	•	•	•	•	•	•	•	•	•	•	
	Digital display on/off	•	•	•	•	•	•	•	•	•	•	•	
	Buzzer sound on/off	•	•	•	•	•	•	•	•	•	•	•	
	EEV automatic adjustment	•	•	•	•	•	•	•	•	•	•	•	
	Indoor temperature detection	•	•	•	•	•	•	•	•	•	•	✖	
	0.5°C/1°C setting temperature adjustment	•	•	•	•	•	•	•	•	•	•	•	
	Home leave mode	•	•	•	•	•	•	•	•	•	•	✖	
	Independent power supply	•	•	•	•	•	•	•	•	•	•	•	
	Sleep mode	•	•	•	•	•	•	•	•	•	•	✖	
	Mildew proof of heat exchanger	•	•	•	•	•	•	•	•	•	•	✖	
	Air filter	Removes airborne dust particles to ensure a steady supply of clean air	pre-filter	pre-filter	G1 •	G1 •	pre-filter •	pre-filter	G1 •	pre-filter •	G1 •	pre-filter •	pre-filter •
	Fresh air intake	A reserved outside air intake port allows outdoor air to be introduced directly into the unit	4.5~7.1kW	•	•	•	•	•	•	•	•	•	•
	Visualization of dirty blockage rate	Dirty blockage rate can be accurately identified and displayed on the controller	✖	✖	○	○	○	✖	○	○	✖	○	○
Silver ions drain pan	Slow-released nano-silver ions can keep the drain pan free of mold for a long time.	✖	✖	•	•	•	✖	•	•	•	✖	✖	
Heat exchanger self-cleaning	Wash the dirt on the heat exchanger through freezing frost, and then high temperature sterilization.	•	•	•	•	•	•	•	•	•	•	•	
Humidity control	Additional humidity sensor can achieve humidity control in 35~75%	✖	✖	✖	✖	✖	○	○	○	✖	○	○	
Puro-air kit	Powered by OSRAM's UVC lamps, can effectively kill bacteria, viruses and odors of indoor air	✖	✖	✖	✖	✖	✖	○	✖	✖	✖	✖	
Sterilization device	Positive and Negative Ion Sterilization Module can effectively kill bacteria, viruses and odors of indoor air	✖	✖	5 steps + auto	5 steps + auto	5 steps + auto	✖	✖	✖	✖	✖	✖	
Air Flow	Vertical swing	5 steps + auto	5 steps + auto	✖	✖	○	5 steps + auto	✖	✖	✖	✖	✖	
	Horizontal swing	✖	✖	7 steps	7 steps	7 steps	•	7 steps	7 steps	7 steps	7 steps	7 steps	
	Fan speed steps	7 steps	7 steps	•	•	•	•	•	•	•	•	•	
	Auto fan speed	•	•	•	•	•	•	•	•	•	•	•	
	Individual louver control	✖	✖	•	•	•	•	•	•	•	•	•	
Energy Saving	Soft wind mode	•	•	•	•	•	•	•	•	•	•	•	
	Adaptive ESP	✖	✖	•	•	•	•	•	•	•	•	•	
	META mode	•	•	•	•	•	•	•	•	•	•	•	
ECO mode	The set temperature will automatically increase by 1°C per hour (in cooling mode) or decrease by 1°C per hour (in heating mode), with a maximum change of 2°C.	•	•	•	•	•	•	•	•	•	•	•	
Full DC electronic components	The fan motor and water pump are DC power supply	•	•	•	•	•	•	•	•	•	•	•	
Human Detect Sensor	Using millimeter-wave radar sensor controller automatically turns indoor units on or off upon detecting that the room is occupied or unoccupied, ensuring climate control whilst minimizing energy consumption.	✖	✖	○	○	○	✖	-1	-1	✖	✖	✖	
Easy Installation & Service	Program upgrade(2)	•	•	•	•	•	•	•	•	•	•	•	
	Long distance air delivery	✖	✖	3.5m	3m ○ 4.5m	✖	✖	✖	✖	✖	✖	✖	
	High-lift drain pump	•	•	•	•	•	•	•	•	•	•	•	
	Water level switch	•	•	•	•	•	•	•	•	•	•	•	
	Ceiling anti-dirt setting	•	•	•	•	•	•	•	•	•	•	•	
	Air baffle fittings for irregular rooms	✖	✖	•	•	•	•	•	•	•	•	•	
	2-core non-polarity communication wiring	•	•	•	•	•	•	•	•	•	•	•	
Long communication wiring	•	•	•	•	•	•	•	•	•	•	•		
3 digit 7-segment display	•	•	•	•	•	•	•	•	•	•	•		
Error codes are further refined	•	•	•	•	•	•	•	•	•	•	•		
Easy Control	Timer	•	•	•	•	•	•	•	•	•	•	•	
	Infrared remote control	•	•	•	•	•	•	•	•	•	•	•	
	Wired remote control	•	•	•	•	•	•	•	•	•	•	•	
	Group control	•	•	•	•	•	•	•	•	•	•	•	
	Centralized control	•	•	•	•	•	•	•	•	•	•	•	
Auto-restart	•	•	•	•	•	•	•	•	•	•	•		
°C/°F setting	•	•	•	•	•	•	•	•	•	•	•		
Long-distance on/off function	•	•	•	•	•	•	•	•	•	•	•		
Extended Functions	Humidifier connection	✖	✖	○	○	○	○	○	○	○	✖	✖	
	Dehumidifier connection	✖	✖	○	○	○	○	○	○	○	✖	✖	
	Electric heater connection	○(4)	✖	○	○	○	○	○	○	○	○	○	
	Refrigerant leak sensor connection	○(4)	✖	○	○	○	○	○	○	○	○	○	
	CO2 sensor connection	○(4)	✖	○	○	○	○	○	○	○	○	○	
	PM2.5 sensor connection	○(4)	✖	○	○	○	○	○	○	○	○	○	
	Third-party controller connection	○(4)	✖	○	○	○	○	○	○	○	○	○	
	Long-distance on/off function	○(4)	✖	○	○	○	○	○	○	○	○	○	
	Long-distance alarm function	○(4)	✖	○	○	○	○	○	○	○	○	○	
	Multiple protections	•	•	•	•	•	•	•	•	•	•	•	



# Indoor Unit Specification

Appearance	Model No	Cooling capacity	Heating capacity	Power Input	Air Volume (High-Low) (>Speed)	Static Pressure	Noise Level (High-Low)	Ref. Pipe size		Drain Size (OD)	Unit Size (WxDxH)	Net Wt. (Unit)	Standard Remote	Drain Pump	
		kW	kW	W	CMH	(ESP) Pa	dB	Liquid	Gas						
<b>Floor Standing (DC Motor)</b>															
	MIH22F3HN18	2.2	2.4	35	473 - 426		34.5 - 30.5				915×200×470	16.3			
	MIH28F3HN18	2.8	3.2	35	473 - 426		34.5 - 30.5				915×200×470	16.3			
	MIH36F3HN18	3.6	4.0	40	524 - 408		36.5 - 31	6.35	12.7		1133×200×470	16.9			
	MIH45F3HN18	4.5	5.0	44	636 - 483		37 - 30				1133×200×470	20			
	MIH56F3HN18	5.6	6.3	45	781 - 624		36.5 - 31.5				1253×200×566	24.3			
	MIH71F3HN18	7.1	8.0	53	928 - 739		40.5 - 34.5	9.53	15.9		1253×200×566	26.1			
	MIH22F4HN18	2.2	2.4	35	507 - 435		36 - 32				1020×495×200	21.1			
	MIH28F4HN18	2.8	3.2	35	507 - 435		36 - 32				1020×495×200	21.1			
	MIH36F4HN18	3.6	4.0	40	532 - 414		38 - 32	6.35	12.7		1240×495×200	21.9	Wireless Remote	Inbuilt Drain Pump	
	MIH45F4HN18	4.5	5.0	44	689 - 526		43 - 37				1240×495×200	26.3			
	MIH56F4HN18	5.6	6.3	45	934 - 764		41.5 - 36				1360×591×200	32.1			
	MIH71F4HN18	7.1	8.0	53	1054 - 841		46 - 41	9.53	15.9		1360×591×200	33.3			
	MIH80F4HN18	8.0	9.0	62	1054 - 841		46 - 41				1360×591×200	33.3			
	MIH22F5HN18	2.2	2.4	35	507 - 435		32.5 - 29				1020×495×200	21.1			
	MIH28F5HN18	2.8	3.2	35	507 - 435		32.5 - 29				1020×495×200	21.1			
	MIH36F5HN18	3.6	4.0	40	532 - 414		35 - 29	6.35	12.7		1240×495×200	21.9			
	MIH45F5HN18	4.5	5.0	44	689 - 526		38 - 31.5				1240×495×200	26.3			
	MIH56F5HN18	5.6	6.3	45	934 - 764		35 - 31				1360×591×200	32.1			
	MIH71F5HN18	7.1	8.0	53	1054 - 841		39.5 - 34	9.53	15.9		1360×591×200	33.3			
	MIH80F5HN18	8	9.0	62	1054 - 841		39.5 - 34				1360×591×200	33.3			
	<b>AHU Kit</b>														
		AHUKZ-00F	1.8 - 9	1.8 - 9	0.03	265 - 1476			8	8			6.2		
		AHUKZ-01F	9 - 20	9 - 20	0.03	1053 - 3329							6.2		
		AHUKZ-02F	20 - 36	20 - 36	0.03	2600 - 5912			12.7	12.7		479×384×134	6.4	Wireless Remote	Inbuilt Drain Pump
AHUKZ-03F		36 - 56	36 - 56	0.03	4559 - 9853							6.4			
AHUKZ-04F		56 - 168	56 - 168	0.03	7194 - 29912							6.6			
<b>HRV</b>															
	HRV-D200(C)			70	200	75	33 - 25.5				1195×272×784	51			
	HRV-D300(C)			100	300	70	36.5 - 30				1276×1189×272	57			
	HRV-D400(C)			110	400	70	36.5 - 28				1276×1189×272	72			
	HRV-D500(C)			150	500	65	36 - 24.5				1311×1090×390	62			
	HRV-D800(C)			320	800	100	42 - 34				1311×1090×390	77	Wireless Remote		
	HRV-D1000(C)			380	1000	110	44 - 33.5				1740×1344×615	85			
	HRV-D1500(C)			680	1500	150	51.5 - 41.5				1740×1344×615	168			
	HRV-D2000(C)			950	2000	160	53 - 42.5				1811×1545×685	195			

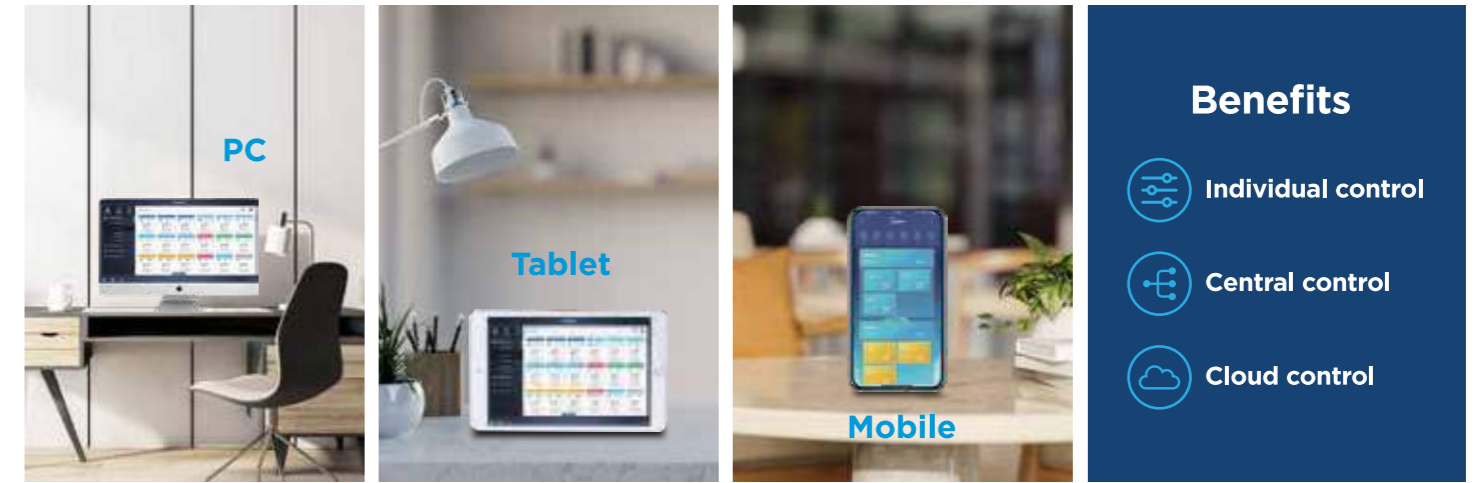
**Notes:**  
 1. Nominal capacity are based on following conditions:  
 Cooling: Indoor temp. 27°C DB, 19°C WB; outdoor temp. 35°C DB; Heating: Indoor temp. 20°C DB; outdoor temp. 7°C DB, 6°C WB, Pipe length 7.5m with zero level difference.  
 2. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.  
 3. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.  
 4. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.



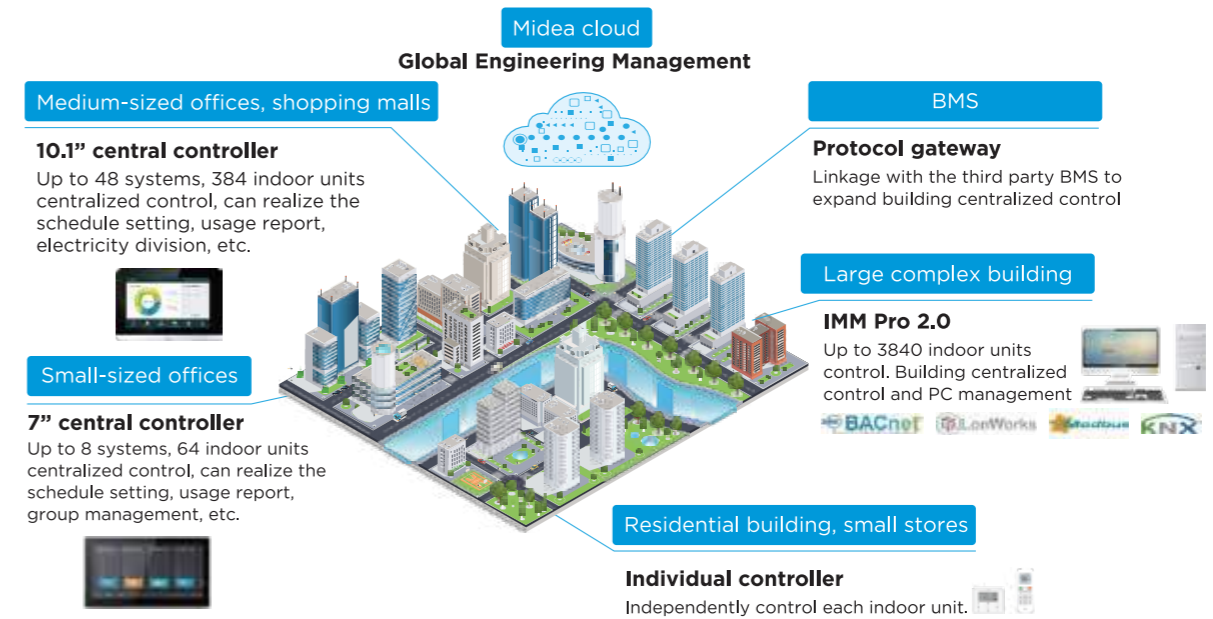
# Intelligent Control Solutions

## 8th Gen Series VRF Controllers

Offering intelligent, centralized, and customizable management for spaces of any scale.



Midea VRF can provide different control solutions for different application scenarios. From small homes and convenience stores to large shopping malls and complex buildings, 8th Gen Series VRF controllers can provide the most appropriate control solutions to achieve centralized and customized management.



Wireless Remote Controller	Wired Controllers	Centralized Controllers	Network Controllers	BMS Gateway	Accessories
		 CCM-30 (For 64 IDUs)		 ACnet Gateway (For 64 IDUs)	
		 TC3-7 (For 128 IDUs)		 LonWorks Gateway (For 32 IDUs)	
		 TC3-10.1 (For 384 IDUs)		 Modbus Gateway (For 64 IDUs)	 MA3-ASTBT (Bluetooth Kit)
		 GW3-Cloud (For 64 IDUs)		 KNX Gateway	

# Indoor Branch Joints

Model	Liquid side joints	Gas side joints
FQZHN-01D		
FQZHN-02D		
FQZHN-03D		
FQZHN-04D		
FQZHN-05D		
FQZHN-06D		
FQZHN-07D		

# Outdoor Branch Joints

Model	Liquid joints	Gas side joints	Applicable
FQZHW-02N1E			< 56 HP
FQZHW-02N1G			≥ 56HP
FQZHW-03N1E			< 98HP
FQZHW-03N1G			≥ 98HP
FQZHW-04N1G			≤ 98HP