DISCOVER
easyCOMFORT

Midea Group
Midea Building Technologies Division

C-V8EasyFit202506

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Midea reserves the right to change the specifications of the product, and to withdraw or replace products without prior notification or public announcement. Midea is constantly developing and improving its products.

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



Midea

V8 EasyFit VRF

DISCOVER
RELIABLE COMFORT

2025

MBT

Midea Building Technologies (MBT) is a key division of the Midea Group, a leading provider of comprehensive, intelligent-building solutions including energy sources, elevators, control systems and heating, ventilation and air conditioning.

Built on a foundation of innovation, Midea has emerged as a global leader in the HVAC and building management industry. Our unwavering dedication to research and development coupled with an extensive network of global partners has given birth to cutting-edge technologies that provide innovative solutions to our customers around the world.

Committed to providing users with intelligent, digital, low carbon overall building solution

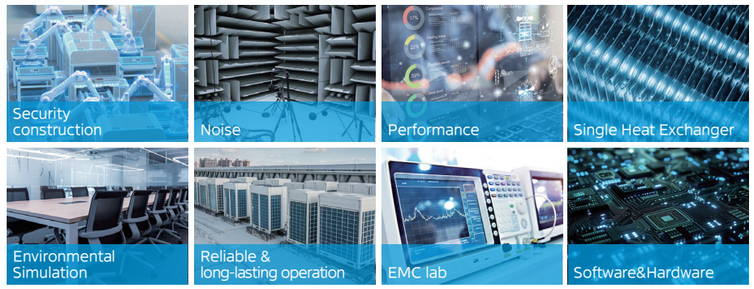
Midea Building Tech.

- HVAC
- Elevator
- Building Intelligence
- Energy Management

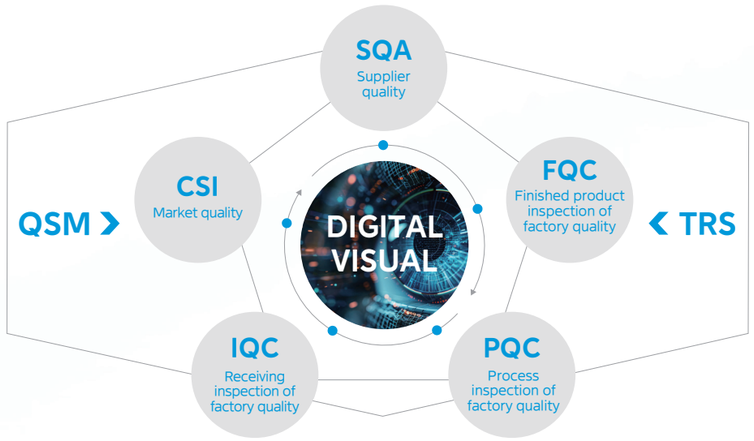
4 global manufacturing locations assure timely delivery with less sensitivity to supply chain interruption.



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



1999

- Cooperated with Toshiba to develop inverter technologies



V3

2005

- Launched **V3** Series VRF
- AC inverter + fixed compressor
- Attained 16HP single-unit capacity



V4

2008-2014

- Launched **V4,D4** Series VRF product line with heat pump, heat recovery series and water-cooled series
- Attained 16HP single-unit capacity



V5X

2014

- Launched **V5X** Series VRF product line
- Full DC inverter technology
- Attained 22HP single-unit capacity



V6

2017-2020

- Launched **V6** Heat Pump series VRF, **VC Pro** cooling-only series VRF and **V6R** heat-recovery series VRF
- Full DC inverter technology
- Attained 32HP single-unit capacity



V8

2022-2023

- Launching the 8th generation **V8** Series VRF, including side-discharge **EasyFit** series
- Full DC inverter technology
- Attained 24HP single-unit capacity

BENEFITS OF MIDEA VRF



For End-users

Improved IAQ
Cost-efficient Operation
Enhanced Indoor Comfort

For Building Owners

Energy-management Solutions
Reliable Operation
Backup Solution





For Consultants

Diversified Solutions
Professional Tools and Support
Design Flexibility

For Construction Companies

Green Solutions
Space-Saving Designs
Intelligent Management Systems



APPLICATION SOLUTIONS

Office Complexes

Enjoy comfort while working

Midea VRF provides indoor comfort solutions for office buildings of all sizes with smart control solutions that streamline the management of your VRF system. We offer a wide variety of indoor units that suit any design.



Hotels & Shopping Malls

Increase your business, not your bills

Midea VRF systems are renowned for efficient and reliable operation making them ideal for commercial applications. Intelligent control solutions include hotel key cards and touch screen controllers, making system management that much easier.





Residential Apartments

One for every home

A compact size and high efficiency make Midea VRF suitable for all residential homes.



Hospitals & Schools & Airports

Meeting all expectations

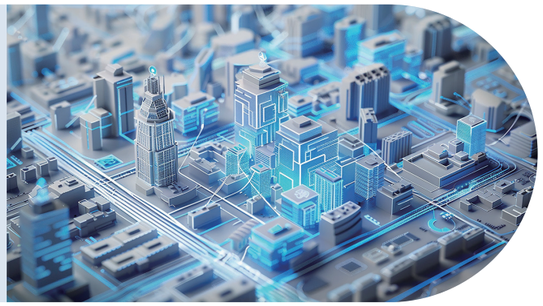
Innovative designs combined with a diverse variety of indoor unit options make Midea VRF an ideal choice for a wide variety of applications.

ALL DIGITALIZED SERVICE

Design Service

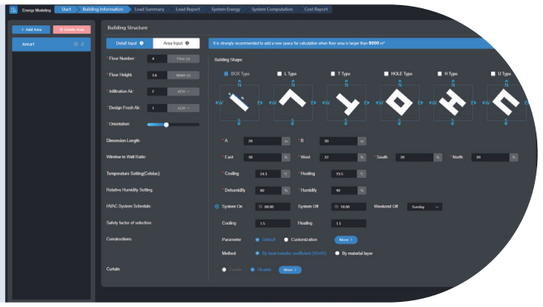
BIM Building Information Import

- VRF Units Layout
- VRF System Calculation
- VRF Electrical Control Diagram
- VRF System Material List



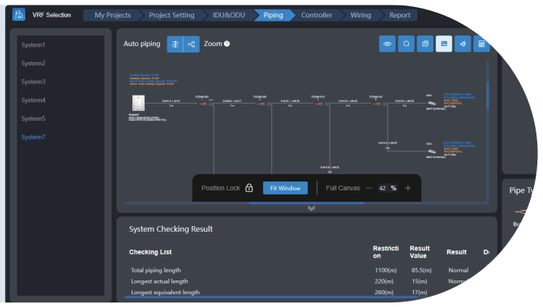
Building Energy Estimation

- Building Load Summary
- Building System Energy
- Building System Computation
- Building Cost Report



HVACSSP Online VRF System Design

- VRF Indoor Units Selection
- VRF Outdoor Units Selection
- VRF Controller Selection
- VRF Report



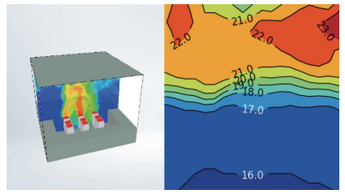
Installation Service



Automatic refrigerant charging

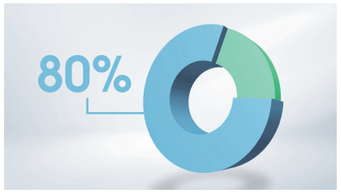


Automatic commissioning reporting



MCFD Energy consumption and airflow simulation optimization

Management Service



The probability of Filth blockage **80%**



Degradation of energy efficiency **25%**



Continuous energy saving service

After-sales Service



Intelligent maintenance tool



Cloud-based big data analytics



2+10+N Spare Parts Layout can ensure the timely supply of global after-sales spare parts

INTERNATIONAL SERVICE MANAGEMENT

Our International Service Management (ICS) system provides customers with professional technical support. Through ICS, you can download product information/documentation, get help with technical questions and troubleshooting, submit complaints and order parts using our self-service interface.

https://ics.midea.com



My order

Inquire about spare parts from an exploded view and place orders for spare parts directly in ICS.

Document inquiry and download

View or download product technical documentation online, such as catalogs, images, training PPTs and other assets.

Technical inquiry & FAQ

Ask technical questions online and receive a prompt response from our technicians or browse the FAQ for answers to commonly asked questions.

Troubleshooting

Query the error code and solution by SN, model name, error code or product type.

Complain

Submit product quality complaints online, and our after-sales engineers will respond promptly.

MOBILE INTELLIGENCE SERVICE APP

The Mobile Intelligence Service App (MISA) is the mobile version of ICS and features the same functionality. MISA often makes getting technical support timelier and more convenient.

https://link.midea.com



Download

Scan to download the mobile app

Feedback

Thank you for your attention and feedback

GLOBAL BULK WAREHOUSE LAYOUT OVERVIEW



Europe

- Italy
- Germany
- France
- Hungary
- UK
- Poland
- Turkey
- Spain
- Romania
- Greece

Southeast Asia

- Vietnam
- Indonesia
- Thailand
- Malaysia
- Philippines

Latin America

- Puerto Rico
- Mexico
- Venezuela
- Brazil

Asia and Africa

- China
- Russia
- Georgia
- Egypt
- South Africa
- UAE
- Qatar
- Iraq
- India
- Uzbekistan

Australia

- Australia

Available Spare Parts centers 30

Europe (10):

Italy/Germany/France/UK/Spain/Poland/Hungary/Greece/Turkey/Romania

Asia-Africa (10):

China/Russia/Georgia/UAE/Egypt/Uzbekistan/India/South Africa/Iraq/Qatar

Latin America (5):

Mexico/Puerto Rico/Venezuela/Brazil/Australia

South-East Asia (5):

Vietnam/Thailand/Malaysia/Indonesia/Philippines

V8 EasyFit

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

Outdoor Unit Lineup

V8 EasyFit

8-16HP	18-24HP
	

Outdoor Unit Features

	Features		EasyFit
Innovative Technologies	HyperLink	Midea proprietary communication bus chip greatly simplifies installation, saving associated costs.	●
	SuperSense	18 sensors monitor every component of the refrigerant pipeline to ensure optimal performance.	●
	Meta 2.0	Triple variable control maximizes comfort and energy efficiency.	●
	Zen air 2.0	Maximizes comfort while ensuring a supply of healthy indoor air.	●
	Doctor M 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient.	●
High Efficiency	Full DC inverter technology	All indoor and outdoor unit electrical components utilize DC power supply, improving efficiency and saving energy.	●
	Enhanced Vapor Injection (EVI) compressor	Increases refrigerant circulation while improving both cooling and heating capacity.	●
	Micro-channel refrigerant subcooling	The refrigerant system can achieve 15°C subcooling, improving refrigerant heat transfer efficiency while reducing noise.	●
	Low standby-power consumption	Standby power consumption as low as 3.5W.	●
	60-step energy management	The system can be set from 40% to 100% capacity output in 1% increments	●
High Reliability	Backup operation (fanmotor)	If one fan motor fails, the other fan motor provides backup so that the system can continue operating (requires dual-fan unit).	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provides backup so that the system can continue operating	●
	Precise oil control	Monitors the oil levels of all outdoor compressors to ensure sufficient oil at all times, helping prevent potential damage caused by shortages.	●
	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	○
	Anti-corrosion protection	Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard	●
	Micro-channel refrigerant cooling PCB	Achieves efficiencies up to 10 times higher than traditional refrigerant pipe cooling.	●
	Alarm output	A system malfunction triggers a remote alert notifying service personnel the service or maintenance is required.	●
	Fire alarm input	In the event of fire, receive fire information in time and stop the system immediately to avoid serious problems.	●

● equipped as standar ○ customization option

Outdoor Unit Features

	Features		EasyFit
Enhanced Comfort	Silent mode	A 15-level silent mode gives your customers maximum customization options.	●
	Intelligent defrosting technology	Calculates defrosting time based on actual system status and activates accordingly, eliminating wasteful heat loss due to unnecessary defrosting.	●
	Auto cooling/heating changeover	Automatically switches between cooling and heating modes as needed to efficiently reach the set temperature (available in changeover priority mode)	●
	Additional ambient temperature sensor	An additional external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system should be running in cooling or heating in auto priority mode, ensuring indoor comfort.	○
	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 offer maximum flexibility for a wide variety of scenarios.	●
Wide Application Range	Wide capacity range	Our diverse capacity range ensures an ideal fit for any application, from large buildings to small.	8-24HP
	Wide range of indoor units	Our comprehensive lineup includes 12 indoor unit styles and more than 100 models to meet the needs of any configuration.	●
	Wide operation range	Stable performance under extreme conditions.	-15~55°C(C) -30~30°C(H)
	Long piping capability	Provides system design flexibility along while lower costs due to simplified installation.	●
	Auto addressing	Automatically assigns addresses to indoor units, simplifying installation.	●

	Features		EasyFit
Easy Installation And Service	Automatic refrigerant charging	Makes installation and service easier and more efficient.	○
	Automatic refrigerant recycling	During outdoor unit maintenance, refrigerant can be temporarily stored in indoor units, and vice versa.	●
	Bluetooth module	Enables storage of fault data, operation parameter enquiry, system parameter setting, simplified PCB replacement and program upgrades for indoor and outdoor units.	○
	Digit display	Intuitive, 4-digit, 7-segment display makes it easy to set parameters and check for parameters and errors.	●
	High external static pressure	Up to 80Pa ESP enables longer duct runs providing greater installation flexibility.	● 0-35Pa ○ 35-80Pa
	Flexible communication wire topology	Supports any communication topology, greatly simplifying installation and reducing installation cost.	●
	2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures.	●
	Extended communication wiring capability	Communication wiring capability up to 2000m offers more flexible installation options.	●
	Wide combination ratio	Combination ration can be extended to 50%-200% under certain conditions which can meet different project requirements.	● 50-130% ○ 50-200%
	Supports manual and automatic defrosting	Improves maintenance efficiency.	●
	Supports manual and automatic oil return	Improves maintenance efficiency.	●
	Easy software update*	The software can be updated on site via USB, or remotely via the web.	●
	Flexible controller connectivity	The central controller and BMS gateway can simultaneously connect to the ODU while the central controller can connect either the ODU or IDU.	●
	Refrigerant volume monitoring	The unit can diagnose excessive or insufficient amounts of refrigerant, and alert maintenance personnel, helping to prevent system malfunction.	●
	Easy system commissioning and inspection*	System commissioning and inspection can easily be conducted on-site or remotely via the web.	●
	Intelligent maintenance tool	Intelligent Bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency.	○

*Web function requires data cloud gateway sold separately.

● equipped as standar ○ customization option

INNOVATIVE TECHNOLOGIES

HyperLink

ETA 2.0

ShieldBox

ENair 2.0

SuperSonse

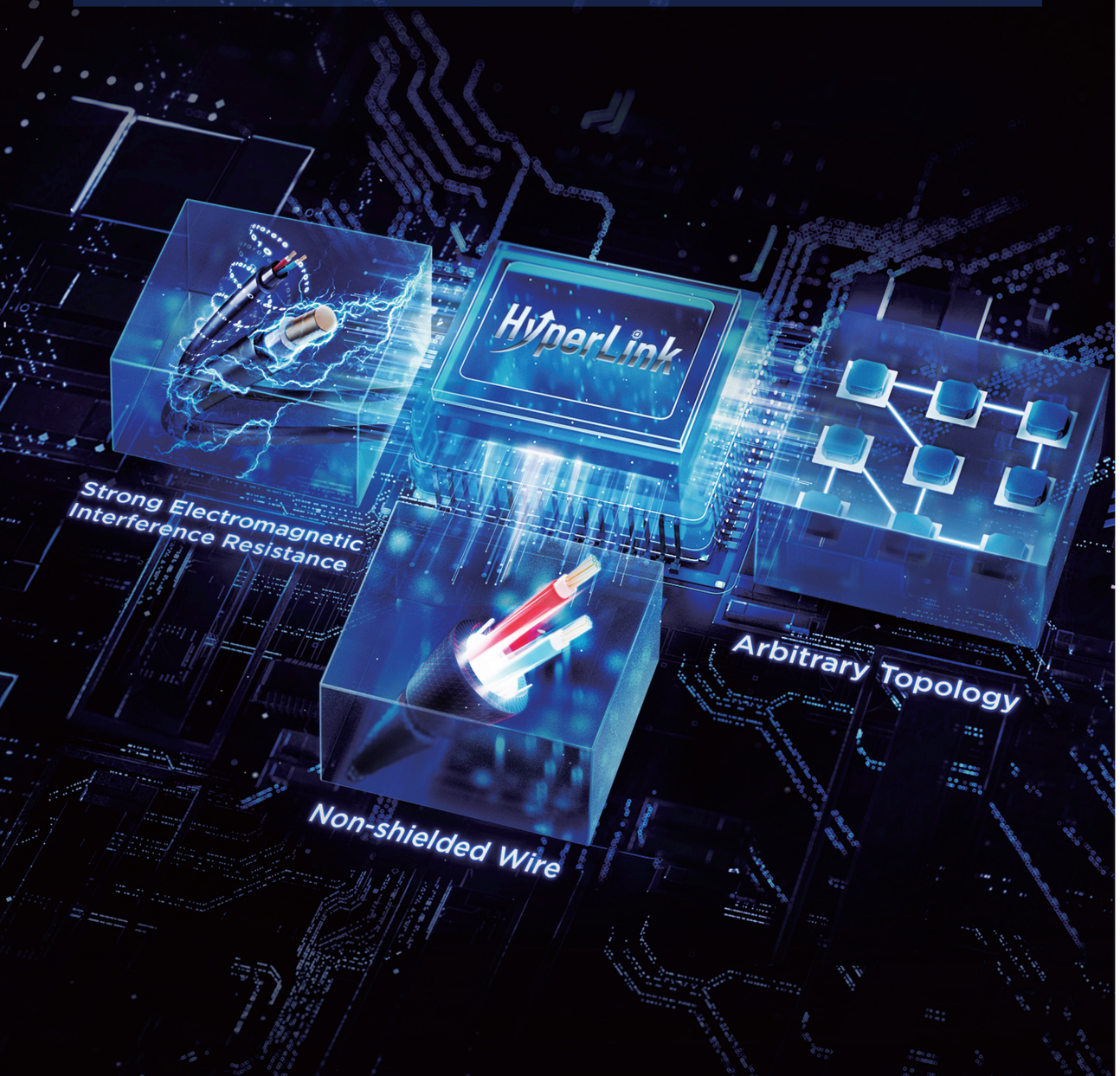
DOCTOR m. 2.0



HyperLink

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

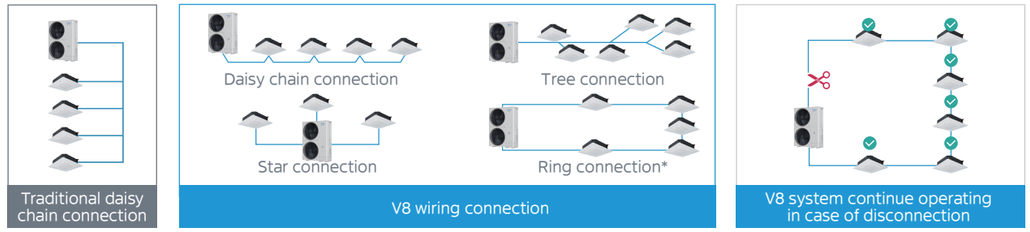
Benefits | Flexible installation | Low installation cost | High reliability | Stable operation



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

Flexible Communication Wire Topology

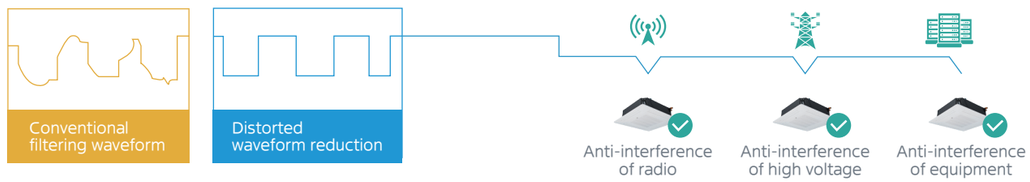
In addition to the traditional daisy chain connection, multiple wiring topologies are supported including serial, tree and ring connections. This flexibility reduces installation costs while eliminating potential wiring errors.



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

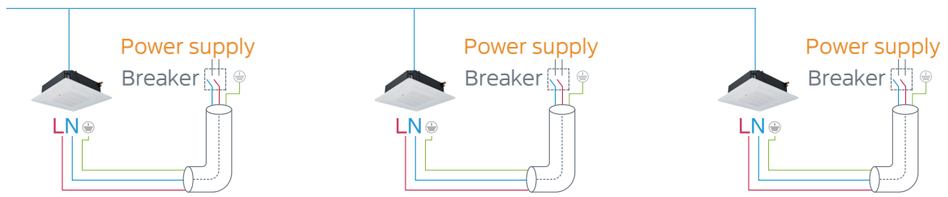
Super Anti-interference Capability

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



Flexible Power Supply for Indoor Units

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



SuperSense

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

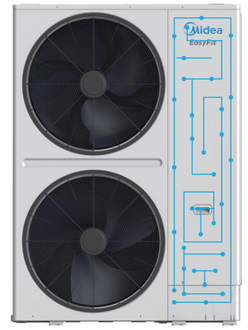
Benefits | High reliability | Stable operation | Enhanced comfort



Up to 18 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.

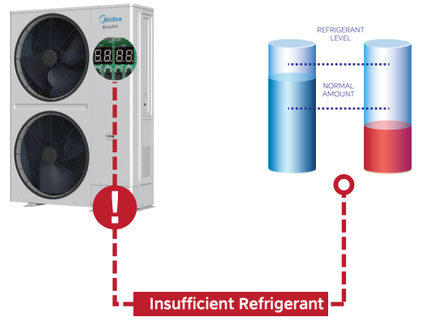
Comprehensive Sensor Grid

The V8 EasyFit Series VRF incorporates advanced refrigerant monitoring technology, equipped with 18 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.



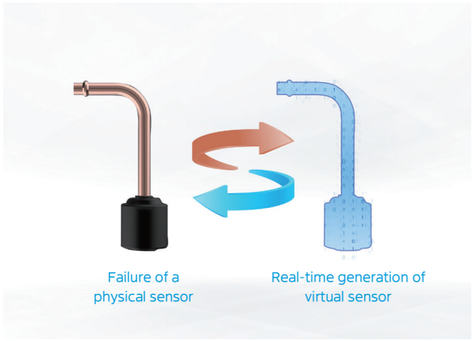
Refrigerant Volume Monitoring

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.



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 | Rapid cooling/heating

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

Variable Refrigerant Flow

STEP 1

Intelligent space recognition

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



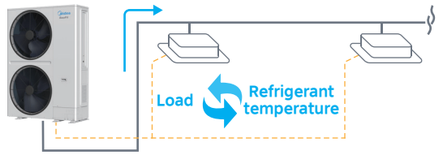
Automatic calculation of building load and required refrigerant volume based on sensor parameters.

Variable Refrigerant Temperature

STEP 2

Automatic refrigerant temperature modulation

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



Automatic matching of the corresponding refrigerant temperature to the load.

Variable Indoor Airflow

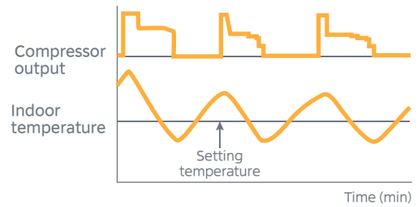
STEP 3

Adaptive indoor airflow and refrigerant flow

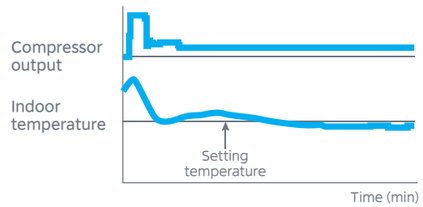
Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise

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

Conventional refrigerant regulation



V8 refrigerant regulation



ENair 2.0

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

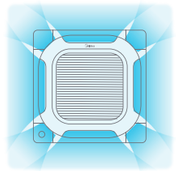
Benefits | Quiet | Enhanced comfort | Healthy



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

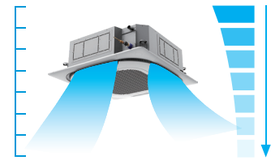
Newly-designed indoor units feature a round air discharge for more uniform, evenly-distributed





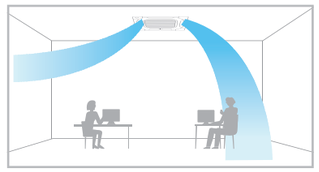
7 Fan Speeds

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



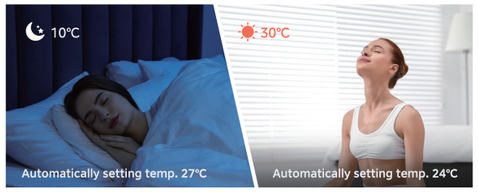
Individual Louver Control

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



Sleep Mode

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

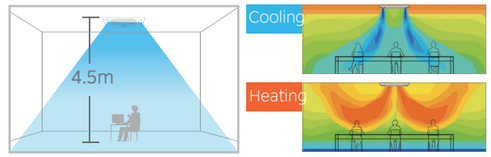


*Temperature on left is for reference.

Extended Distance Air Delivery*

Our Four-way Cassette is designed with an additional 50Pa of static pressure for extended airflow delivery and can be used in spaces with up to a 4.5m ceiling height.

*Available as a customized option.



DOCTOR m. 2.0

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

Benefits

- Easy maintenance
- Fast maintenance
- Low maintenance cost



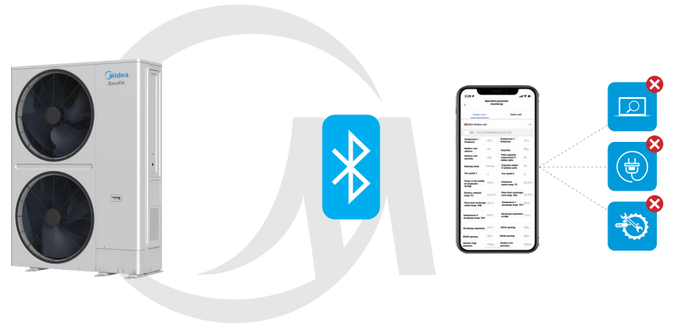


By harnessing a cloud-based platform powered by big data and artificial intelligence, the V8 Series VRF system monitors the real-time operation status of each unit, predicts potential system malfunctions and proactively recommends service or maintenance. An intelligent Bluetooth module and after-sales kit further streamline maintenance while enhancing servicing efficiency.

Intelligent Bluetooth Module*

With the intelligent Bluetooth module or specialized Bluetooth after-sales kit, you can directly access outdoor unit data using a smartphone, eliminating the need to connect to a PC or open the cabinet.

*Available as a customized option.



Cloud Data Synchronization*

The V8 EasyFit 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

*Data cloud gateway must be purchased separately.



Cloud-based Analytics

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



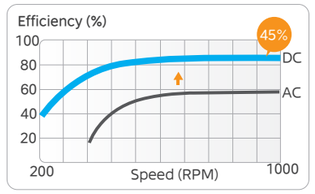
HIGH EFFICIENCY

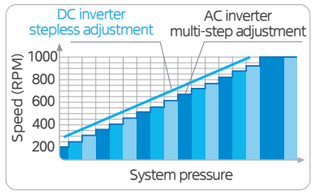
Full DC Inverter Technology

Full DC Inverter Outdoor Components

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







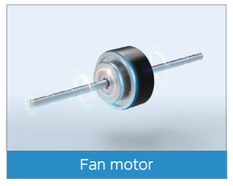
Wider frequency adjustment range

Faster cooling and heating

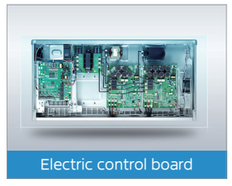
Higher energy efficiency

Full DC Inverter Outdoor Components

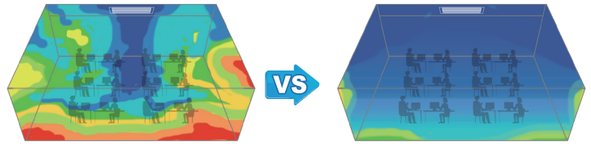
All powered devices, such as indoor fan motors, drain pumps, and electric control boards operate on full DC power. This enhances electrical efficiency by up to 20% while enabling precise indoor temperature control with minimal fluctuations.


Fan motor


Drain pump

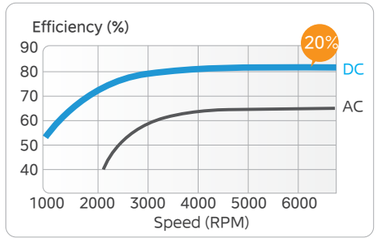

Electric control board

20%
Efficiency improvements



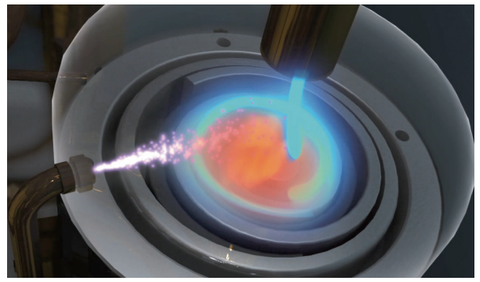
Uneven temperature distribution

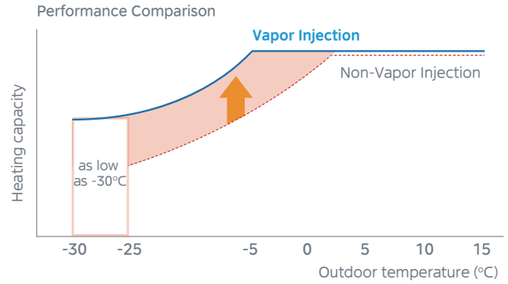
Uniform temperature distribution



Enhanced Vapor Injection (EVI) Compressor

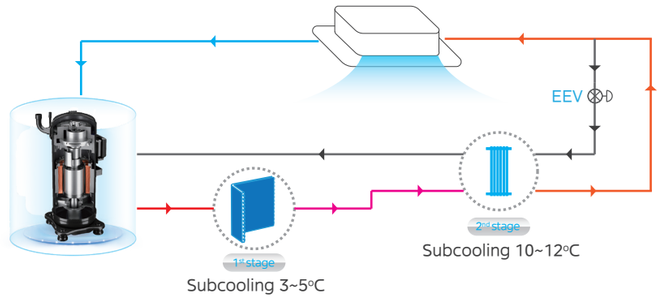
An enhanced vapor injection DC inverter compressor increases refrigerant circulation which improves both cooling and heating capacity.





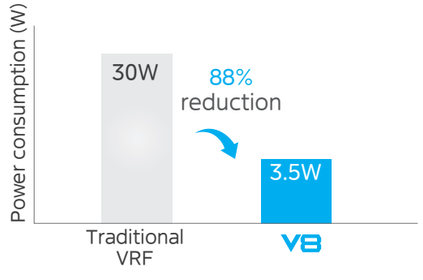
Advanced Subcooling Technology

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



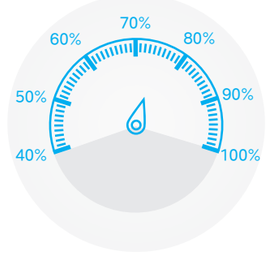
Low Standby Power Consumption

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



60-step Energy Management

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



HIGH RELIABILITY

Double Backup

The EasyFit supports fan backup and sensor backup. The double backup ensures no shutdown in the event of a failure, further guaranteeing comfort.

1 Fan Backup

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



In normal operation, each fan runs on demand



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

2 Virtual Sensor Backup

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

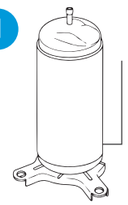


Automatic backup operation of the corresponding virtual sensor in case of failure of one physical sensor

Precise Oil Control

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

1



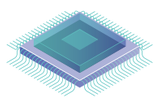
Compressor internal oil separation.

2



High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.

3



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

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.

Auto Dust-Removal Function

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



Self-cleaning

ENHANCED COMFORT

Advanced Silent Technology

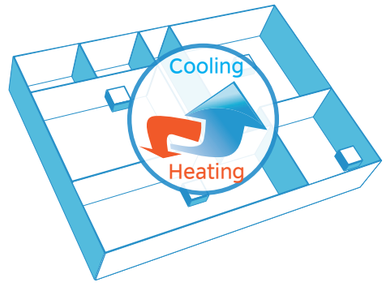
A 15-level silent mode gives your customers maximum customization options.



15 silent options

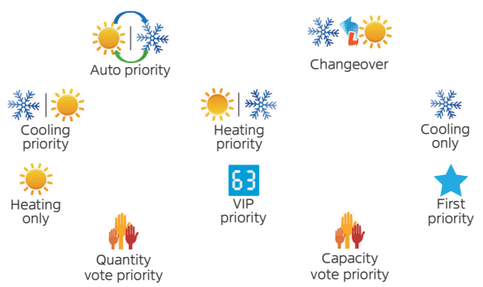
Auto Cooling/Heating Changeover

Automatically switches between cooling and heating modes as needed to efficiently reach the set temperature (available in changeover priority mode).



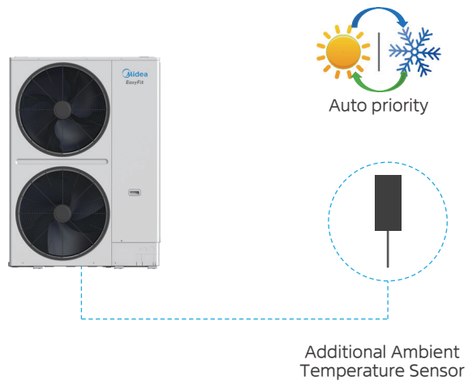
10 Priority Modes

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



Additional Ambient Temperature Sensor*

An additional external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system should be running in cooling or heating in auto priority mode, ensuring indoor comfort.



*This function is available as a customization option.

WIDE APPLICATION RANGE

Wide Capacity Range

The capacity of EasyFit Series VRF is from 8HP to 24HP, perfectly suitable for all kinds of small and medium-sized buildings.

Single unit
8-16HP



Single unit
18-24HP



Wide Operation Range

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



Wide Range of Indoor Units

The EasyFit Series VRF offers a variety of types of indoor units to meet different scenarios of applications such as offices, villas, restaurants, etc.



Long Piping Capability

The V8 EasyFit system can support a total piping length of up to 560m, an installation height difference of up to 50m between indoor and outdoor units, and up to 30m between indoor units, making the V8 EasyFit Series VRF adaptable to a wide range of building designs.

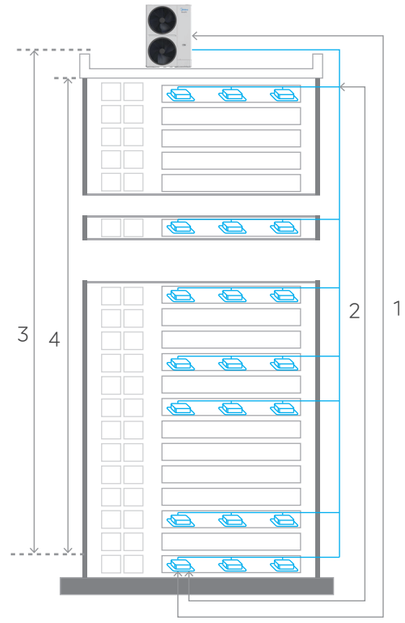
Total piping length: **560m**
1 Longest piping length - actual (equivalent): **150(175)m**

2 Longest piping length after first branch: **40/90*m**

3 Level difference between IDUs and ODU - ODU above (below): **50(40)m**

4 Level difference between IDUs: **30m**

*The longest length after first branch is 40m as a standard but can be extended to up to 90m under certain conditions. Please contact your local dealer for further information.



EASY INSTALLATION AND SERVICE

Free Wiring

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

HyperLink

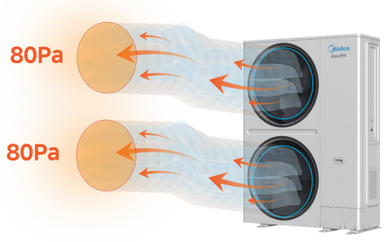
Space Saving

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.



External Static Pressure up to 80Pa*

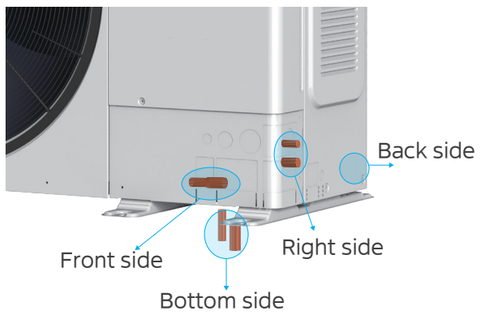
The static pressure of the outdoor unit can be up to 80Pa which facilitates installation of the unit on each floor of high-rise buildings or on balconies.



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

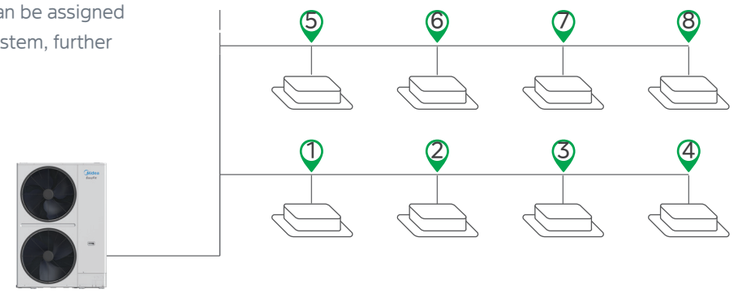
Four-way Piping Connection

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



Auto Addressing

Addresses for all indoor unitscan be assigned automatically by the EasyFit system, further simplifying installation.



Automatic Refrigerant Charging*

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

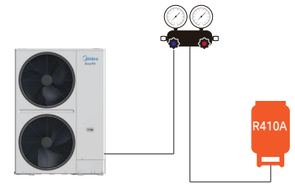
Manual refrigerant charging

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.

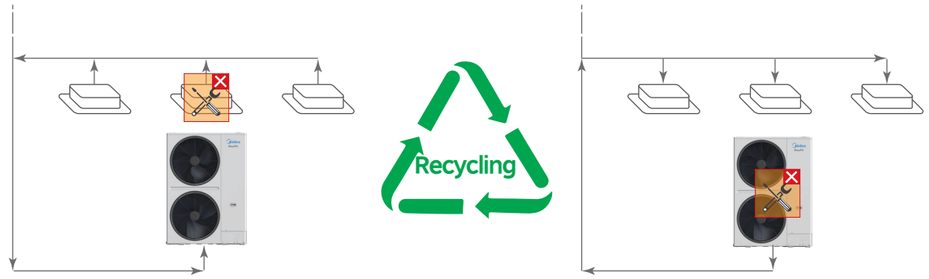
Automatic refrigerant charging

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

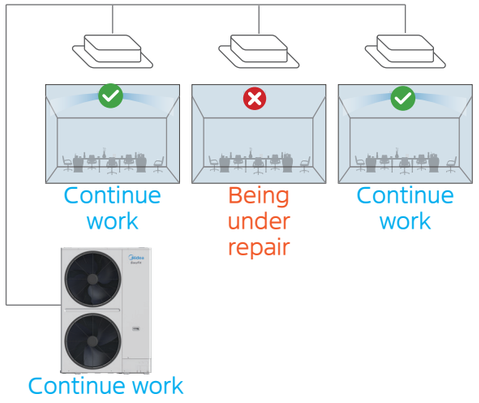
When an indoor unit requires maintenance, refrigerant can be transferred to the outdoor units for temporary storage. This feature also works in reverse when outdoor units need maintenance as refrigerant can be directed to the indoor units or other outdoors for temporary holding. This simplifies and expedites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



EASY INSTALLATION AND SERVICE

Maintenance Mode

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



Easy Software Program Upgrade

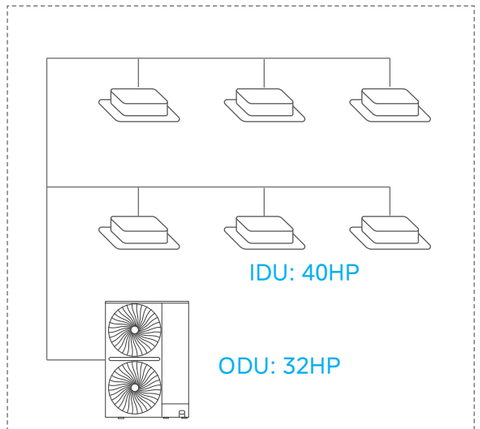
In addition to upgrading the program of outdoor and indoor units through USB and burner, the new product can also remotely upgrade all the programs of indoor and outdoor units through the data cloud gateway, making system upgrades very convenient and ensuring that the system program is always up to date.

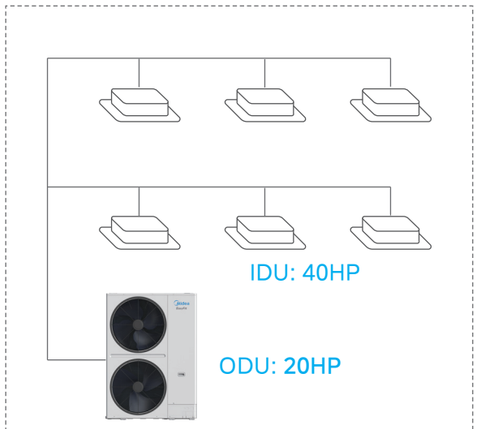
*Data cloud gateway must be purchased separately.



Wide Combination Ratio*

Compared to traditional VRF with combination ratio of 50-130%, the V8S Series VRF can be extended to 50-200%, and the wider combination ratio allows for more flexible system configuration. The larger combination ratio can be applied to long-term part-load operation scenarios, allowing for further reduction in installation costs.

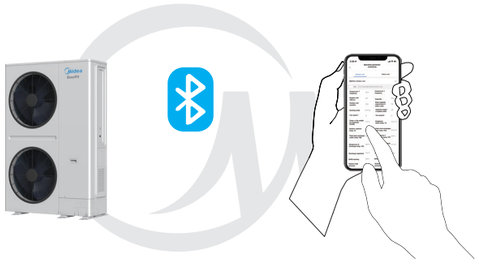




*Combination ratio over 130% is available as a customized option.

Smart Commissioning/Maintenance Tool

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

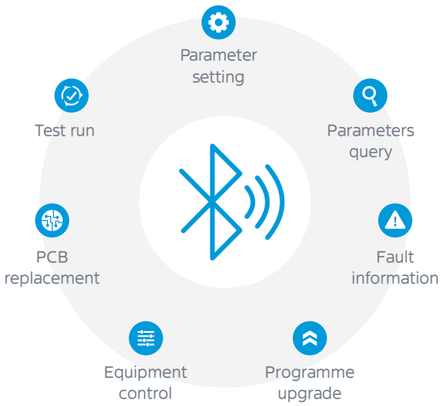


Useful in the following situations

- Installation
- Service maintenance

Main functions

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



Specifications

HP			8	10
Model name			MVi-252WV2GN1(B)	MVi-280WV2GN1(B)
Power supply		V/Ph/Hz	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	25.2	28
		kBtu/h	86.0	95.5
	Power Input	kW	5.8	7.5
	EER		4.38	3.73
Heating[2]	Capacity	kW	27	31.5
		kBtu/h	92.1	107.5
	Power Input	kW	5.7	6.8
	COP		4.78	4.67
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		13	16
Compressor	Type		DC inverter	DC inverter
	Quantity		1	1
Fan motors	Type		Propeller	Propeller
	Motor type		DC	DC
	Static pressure	Pa	0-35 (standard) 35-80 (customized)	0-35 (standard) 35-80 (customized)
	Airflow rate	m³/h	11800	12500
Refrigerant	Type		R410A	R410A
	Factory charge	kg	6.1	6.1
Pipe connections[3]	Liquid pipe	mm	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4
Sound pressure level[4]		dB(A)	56	57
Net dimensions (W×H×D)		mm	1130×1760×580	1130×1760×580
Packed dimensions (W×H×D)		mm	1210×1916×597	1210×1916×597
Net weight		kg	182	182
Gross weight		kg	202.5	202.5
Ambient temp. operation range	Cooling	°C (DB)	-15 to 55	-15 to 55
	Heating	°C (DB)	-30 to 30	-30 to 30

HP			12	14
Model name			MVi-335WV2GN1(B)	MVi-400WV2GN1(A)
Power supply		V/Ph/Hz	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	33.5	40
		kBtu/h	114.3	136.5
	Power Input	kW	8.0	11.2
	EER		4.21	3.57
Heating[2]	Capacity	kW	37.5	45
		kBtu/h	128.0	153.5
	Power Input	kW	7.9	10.7
	COP		4.78	4.21
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		19	23
Compressor	Type		DC inverter	DC inverter
	Quantity		1	1
Fan motors	Type		Propeller	Propeller
	Motor type		DC	DC
	Static pressure	Pa	0-35 (standard) 35-80 (customized)	0-35 (standard) 35-80 (customized)
	Airflow rate	m³/h	12500	12500
Refrigerant	Type		R410A	R410A
	Factory charge	kg	6.4	7.4
Pipe connections[3]	Liquid pipe	mm	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4
Sound pressure level[4]		dB(A)	58	59
Net dimensions (W×H×D)		mm	1130×1760×580	1130×1760×580
Packed dimensions (W×H×D)		mm	1210×1916×597	1210×1916×597
Net weight		kg	185	185
Gross weight		kg	205.5	205.5
Ambient temp. operation range	Cooling	°C (DB)	-15 to 55	-15 to 55
	Heating	°C (DB)	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m 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 1.3m above the floor in a semi-anechoic chamber.

HP			16	18
Model name			MVi-450WV2GN1(A)	MVi-500WV2GN1(A)
Power supply		V/Ph/Hz	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	45	50
		kBtu/h	153.5	170.6
	Power Input	kW	12.0	12.8
	EER		3.75	3.91
Heating[2]	Capacity	kW	50	56.5
		kBtu/h	170.6	192.8
	Power Input	kW	11.1	13.8
	COP		4.50	4.11
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		26	29
Compressor	Type		DC inverter	DC inverter
	Quantity		1	1
Fan motors	Type		Propeller	Propeller
	Motor type		DC	DC
	Static pressure	Pa	0-35 (standard) 35-80 (customized)	0-35 (standard) 35-80 (customized)
	Airflow rate	m³/h	12500	20000
Refrigerant	Type		R410A	R410A
	Factory charge	kg	8	8
Pipe connections[3]	Liquid pipe	mm	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6
Sound pressure level[4]		dB(A)	60	61
Net dimensions (W×H×D)		mm	1130×1760×580	1250×1760×580
Packed dimensions (W×H×D)		mm	1210×1916×597	1330×1916×597
Net weight		kg	192	213
Gross weight		kg	212.5	235
Ambient temp. operation range	Cooling	°C (DB)	-15 to 55	-15 to 55
	Heating	°C (DB)	-30 to 30	-30 to 30

HP			20	22	24
Model name			MVi-560WV2GN1(A)	MVi-615WV2GN1(A)	MVi-670WV2GN1(A)
Power supply		V/Ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	56	61.5	67
		kBtu/h	191.1	209.8	228.6
	Power Input	kW	16.3	18.1	19.7
	EER		3.44	3.40	3.41
Heating[2]	Capacity	kW	63	69	75
		kBtu/h	215.0	235.4	255.9
	Power Input	kW	15.3	16.9	17.5
	COP		4.12	4.08	4.29
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		33	36	39
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan motors	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Static pressure	Pa	0-35 (standard) 35-80 (customized)	0-35 (standard) 35-80 (customized)	0-35 (standard) 35-80 (customized)
	Airflow rate	m³/h	18500	19000	19000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.5	8.5	9.7
Pipe connections[3]	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6
Sound pressure level[4]		dB(A)	61	62	64
Net dimensions (W×H×D)		mm	1250×1760×580	1250×1760×580	1250×1760×580
Packed dimensions (W×H×D)		mm	1330×1916×597	1330×1916×597	1330×1916×597
Net weight		kg	223	233	238
Gross weight		kg	245	255	260
Ambient temp. operation range	Cooling	°C (DB)	-15 to 55	-15 to 55	-15 to 55
	Heating	°C (DB)	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m 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 1.3m above the floor in a semi-anechoic chamber.